

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P271257

Luminaire Tested: **XNV-AF-01-LED-U-T2-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24136)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-T2-7027
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5143 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G1

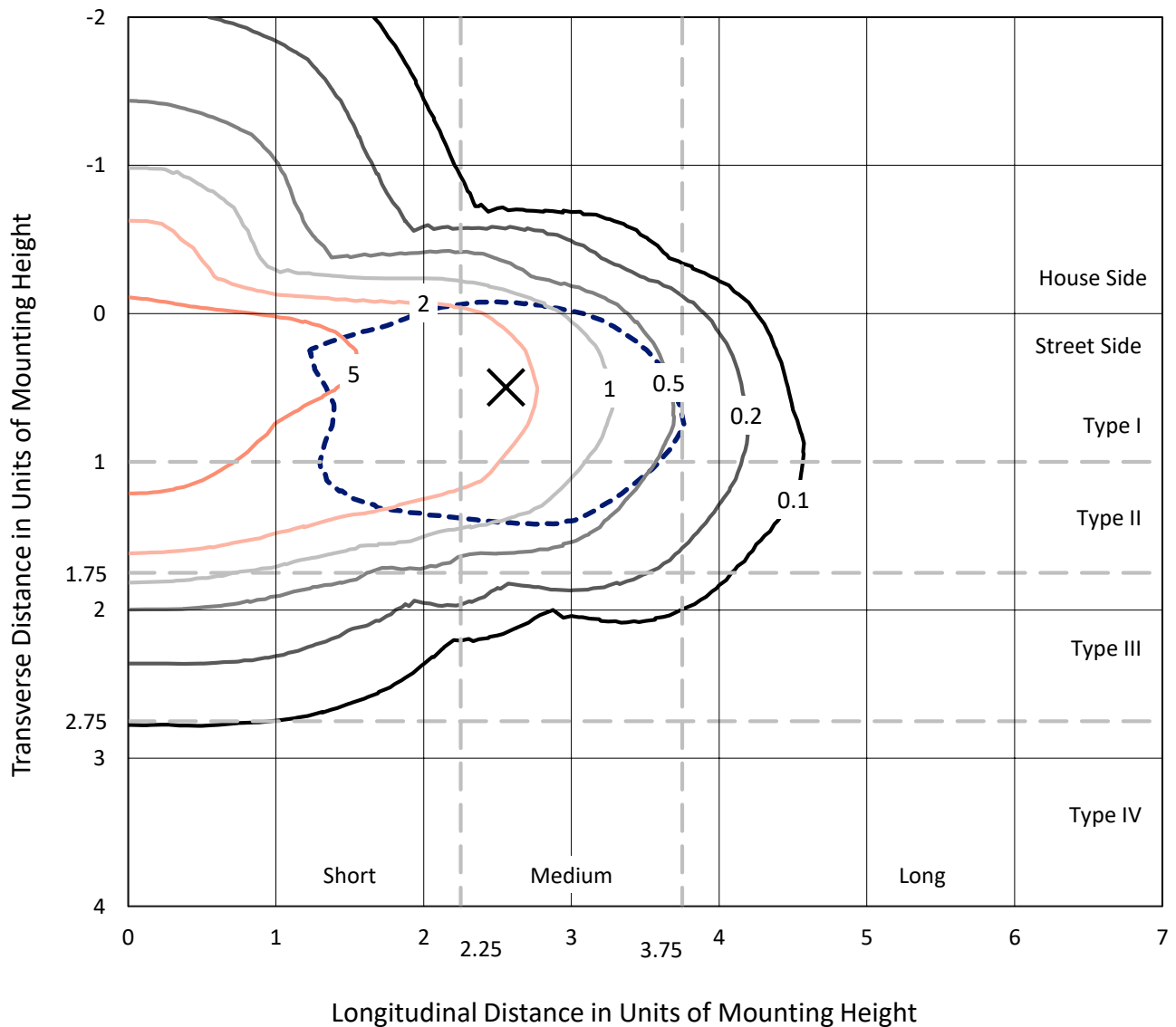
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

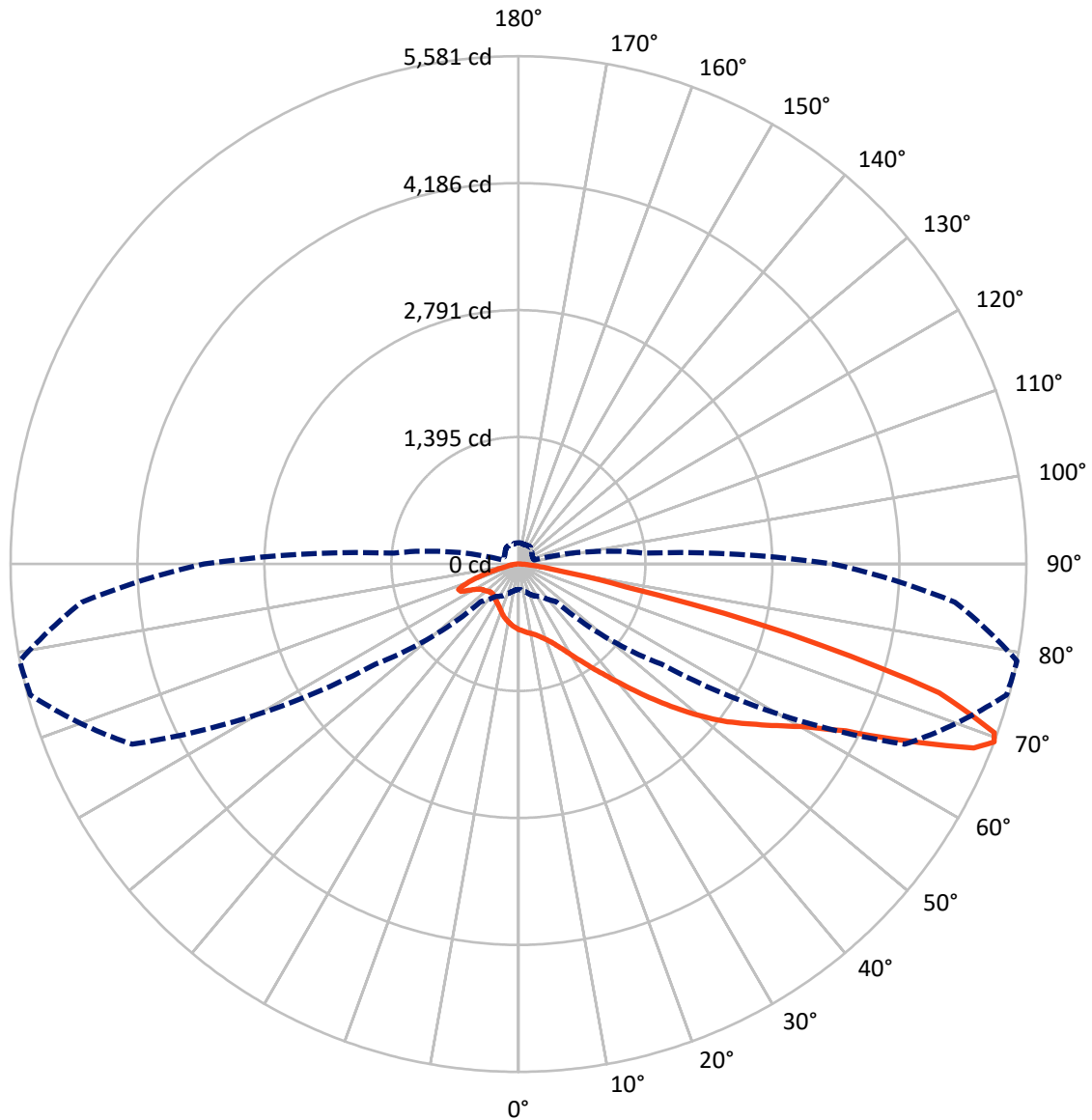
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	967.5	0.0	967.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4175.5	0.0	4175.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	5143.0	0.0	5143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	1.3
10°-20°	191.8	3.7
20°-30°	317.0	6.2
30°-40°	513.3	10.0
40°-50°	819.9	15.9
50°-60°	1174.2	22.8
60°-70°	1308.2	25.4
70°-80°	654.5	12.7
80°-90°	97.1	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5143.0	100.0
0°-180°	5143.0	100.0

Coefficient of Utilization



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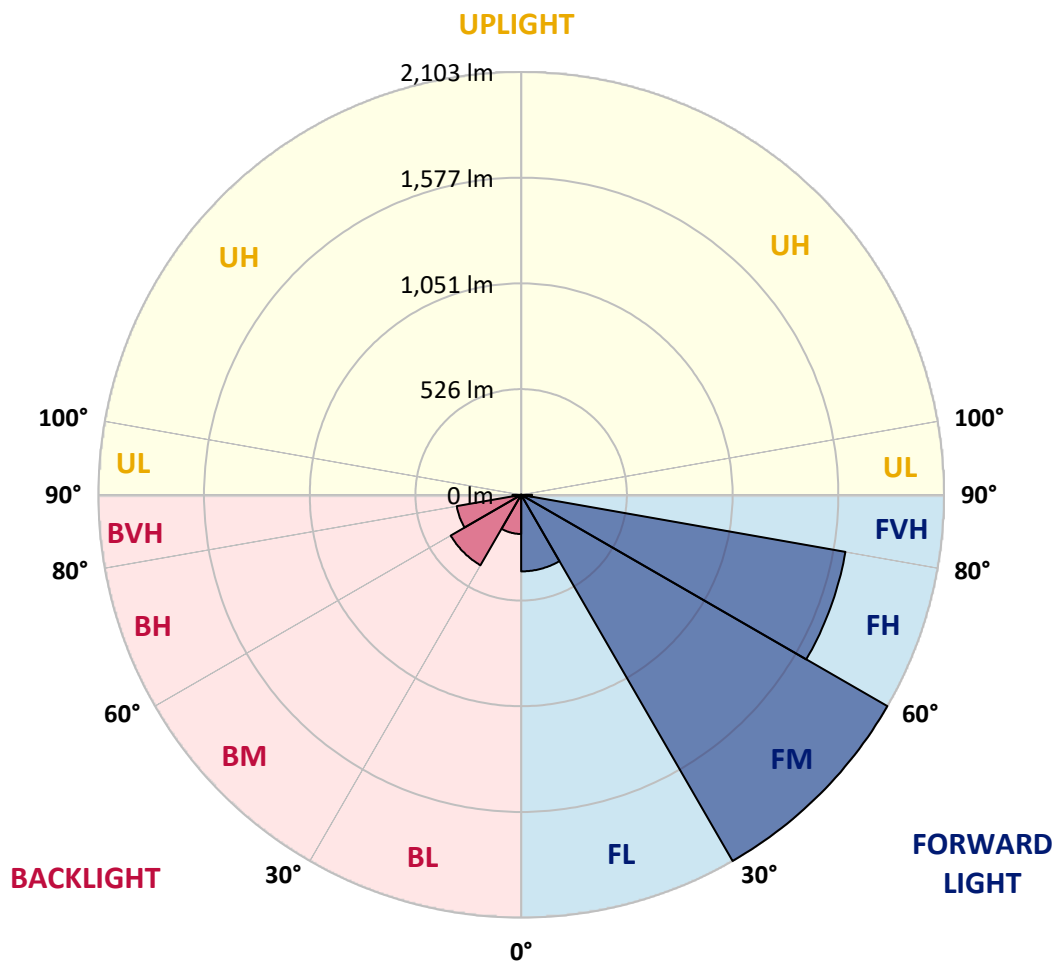
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	380.8	7.4			
FM (30°-60°)	2103.0	40.9			
FH (60°-80°)	1637.4	31.8			G1/1800
FVH (80°-90°)	54.3	1.1			G1/100
BL (0°-30°)	194.9	3.8	B1/500		
BM (30°-60°)	404.4	7.9	B1/1000		
BH (60°-80°)	325.3	6.3	B1/500		G1/500
BVH (80°-90°)	42.9	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	721.7	721.7	721.7	721.7	721.7	721.7	721.7	721.7	721.7	721.7	721.7
2.5°	792.3	790.7	790.4	785.3	782.7	776.9	763.4	749.6	736.9	730.1	723.0
5°	858.7	855.2	853.6	845.2	837.8	825.1	803.9	782.0	759.1	747.3	733.1
7.5°	898.8	899.1	899.1	892.2	884.9	869.4	842.5	812.5	778.7	763.1	740.9
10°	902.1	902.3	907.5	909.2	910.8	902.7	877.9	840.2	796.3	776.2	747.3
12.5°	868.8	871.0	879.5	891.7	908.7	917.6	906.7	869.7	819.3	794.7	759.3
15°	824.0	826.4	837.1	855.6	883.3	912.5	927.6	903.8	849.3	820.3	777.3
17.5°	802.1	804.8	812.2	827.0	854.0	893.4	938.8	940.0	884.7	851.2	798.5
20°	791.6	793.7	803.2	815.2	835.9	873.4	939.7	978.4	926.6	888.0	824.4
22.5°	815.7	816.3	821.1	827.7	841.5	870.5	939.1	1018.1	979.2	934.1	857.6
25°	885.5	881.1	877.9	869.4	872.9	893.4	949.9	1060.5	1046.4	994.7	902.1
27.5°	968.4	967.7	958.9	939.4	927.1	940.0	980.5	1108.0	1128.8	1071.7	960.3
30°	1060.5	1060.9	1051.7	1027.9	1002.7	1004.0	1029.3	1162.9	1227.4	1164.6	1032.0
32.5°	1157.0	1163.1	1146.3	1122.4	1091.8	1082.1	1099.3	1229.2	1341.4	1274.2	1115.1
35°	1272.4	1273.5	1255.0	1220.0	1189.4	1173.9	1189.7	1311.9	1473.0	1403.1	1216.3
37.5°	1392.4	1393.0	1373.8	1329.0	1290.3	1280.3	1297.7	1412.5	1612.4	1549.8	1335.4
40°	1490.2	1497.2	1482.2	1440.1	1401.0	1395.0	1420.2	1533.0	1790.3	1723.4	1477.2
42.5°	1601.3	1609.4	1591.2	1547.4	1516.5	1514.5	1553.8	1670.2	1967.3	1924.3	1637.6
45°	1726.5	1737.9	1712.6	1663.5	1637.3	1681.6	1684.1	1822.3	2171.3	2149.0	1818.3
47.5°	1863.1	1872.4	1851.9	1799.0	1770.5	1834.8	1811.5	1986.8	2391.6	2389.9	2013.7
50°	1968.4	1978.7	1980.9	1957.5	1927.7	1935.7	1951.5	2159.7	2611.4	2637.6	2215.9
52.5°	1949.1	1959.3	2004.7	2065.6	2113.7	2092.8	2111.9	2343.5	2823.6	2879.2	2408.0
55°	1794.4	1799.8	1884.9	2029.6	2234.4	2334.1	2335.5	2543.3	3025.5	3103.3	2590.4
57.5°	1515.4	1516.1	1626.8	1840.2	2164.1	2490.6	2688.0	2794.4	3236.1	3350.9	2816.5
60°	1072.3	1075.0	1203.9	1482.8	1912.1	2471.6	3067.3	3243.5	3480.0	3629.2	3108.0
62.5°	636.5	642.6	739.8	963.6	1420.2	2229.5	3291.3	4042.6	3839.4	4037.3	3574.3
65°	414.2	419.1	477.4	589.8	839.1	1622.1	3217.5	4816.5	4519.5	4679.2	4244.5
67.5°	319.0	323.0	368.8	436.8	514.8	876.8	2572.7	4978.6	5347.2	5396.8	4810.2
69°	280.4	283.7	317.3	382.6	433.3	580.5	1917.3	4684.3	5554.0	5581.3	4817.3
70°	259.8	262.5	294.0	350.6	397.9	463.3	1467.3	4342.4	5478.4	5548.0	4678.3
72.5°	213.9	216.3	238.9	282.2	325.4	330.0	650.1	3170.8	4612.9	4835.7	3958.9
75°	178.7	180.0	194.8	226.5	263.5	262.8	332.2	1796.0	2814.8	3080.4	2444.4
77.5°	149.1	150.0	159.8	179.3	208.0	206.9	233.9	775.1	1243.0	1199.1	841.5
80°	131.5	132.2	137.4	142.3	160.4	159.4	173.3	356.0	505.7	467.4	318.3
82.5°	99.9	101.2	126.8	129.1	124.4	120.2	120.8	207.2	259.2	235.9	170.9
85°	56.6	56.9	81.4	95.2	108.3	81.4	78.4	107.0	127.9	112.1	74.6
87.5°	25.2	26.2	39.0	45.0	58.5	47.8	44.7	45.5	55.2	45.8	29.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	721.7	721.7	721.7	721.7	721.7	721.7	721.7	721.7	721.7	721.7	721.7
2.5°	716.4	710.6	697.2	683.4	669.5	660.9	651.7	643.4	640.0	639.7	633.2
5°	719.4	705.9	675.3	641.6	609.7	584.7	564.0	550.4	537.4	535.0	529.2
7.5°	720.4	698.5	648.7	594.9	546.1	511.8	491.0	481.9	475.5	473.8	471.7
10°	720.0	689.1	619.1	545.5	489.8	464.0	456.2	458.2	461.0	462.3	462.3
12.5°	725.4	684.7	589.5	499.0	453.6	441.1	447.1	457.5	465.7	469.0	469.8
15°	735.3	682.1	556.9	458.7	428.0	430.9	445.7	461.0	472.4	477.4	478.7
17.5°	747.3	678.3	519.2	425.3	413.2	423.6	442.8	462.0	475.7	482.2	483.2
20°	760.8	672.9	480.1	400.4	400.0	413.2	432.4	454.0	468.6	475.7	475.5
22.5°	778.9	667.9	443.9	382.1	385.6	397.7	413.5	433.1	446.8	453.3	451.8
25°	803.2	663.2	411.2	366.1	369.2	377.2	388.2	403.1	412.9	416.3	413.8
27.5°	835.9	659.4	385.6	351.2	351.0	354.7	361.4	369.5	374.1	373.2	369.5
30°	875.8	655.8	366.8	338.1	333.5	333.1	336.1	340.8	344.0	337.9	334.8
32.5°	920.6	649.4	349.9	326.8	318.3	315.2	316.7	323.0	335.4	329.4	327.1
35°	973.5	642.0	333.1	314.2	307.8	302.1	303.2	316.9	354.7	350.2	348.0
37.5°	1037.1	635.2	317.6	300.8	300.5	293.3	292.7	309.1	359.7	350.2	348.3
40°	1113.4	633.9	303.8	286.0	291.4	288.6	286.3	296.4	331.7	312.6	308.8
42.5°	1205.5	640.0	293.7	271.8	281.0	287.4	283.0	285.3	299.8	282.6	279.6
45°	1313.2	656.4	286.3	259.4	269.9	286.3	281.3	279.3	281.6	272.1	270.2
47.5°	1438.7	685.8	281.3	249.0	259.4	283.7	280.6	276.6	275.6	270.2	268.9
50°	1573.0	725.1	277.9	239.6	250.0	279.0	280.4	274.5	272.8	270.5	269.9
52.5°	1706.2	767.8	274.0	231.6	242.3	273.3	280.6	272.5	270.2	268.9	268.1
55°	1838.8	812.2	266.4	224.4	236.6	266.4	280.4	269.9	267.2	267.2	267.2
57.5°	2010.8	879.9	256.7	218.6	229.2	257.8	275.9	266.8	263.2	263.5	263.8
60°	2259.1	993.3	246.0	212.3	219.4	247.7	269.2	261.4	257.1	258.4	258.7
62.5°	2673.8	1191.4	231.1	203.2	209.2	236.9	260.4	254.0	250.0	252.3	252.8
65°	3227.0	1431.3	211.6	191.8	198.9	224.8	249.3	245.2	240.9	246.7	246.2
67.5°	3564.6	1501.6	191.1	179.8	188.7	212.0	235.5	233.9	230.9	240.9	240.2
69°	3453.9	1374.4	179.3	171.9	181.6	203.2	226.8	226.2	223.8	233.5	232.8
70°	3281.9	1255.7	171.9	166.8	178.0	197.8	221.1	221.1	218.6	227.1	225.5
72.5°	2636.3	931.4	154.8	154.1	165.2	183.1	205.6	207.2	205.9	208.9	207.2
75°	1547.7	561.3	138.0	140.0	149.7	167.3	188.5	189.7	188.5	188.0	188.5
77.5°	536.6	251.6	121.8	124.9	133.3	151.1	169.6	172.2	170.3	168.0	168.6
80°	209.9	146.3	104.4	108.7	115.7	132.9	150.7	152.4	149.4	149.1	146.3
82.5°	126.2	89.1	81.0	88.2	96.8	115.4	130.3	129.5	127.2	140.9	123.4
85°	54.8	49.4	59.2	66.3	70.6	86.4	110.0	107.0	101.2	89.1	87.1
87.5°	22.2	25.6	32.7	39.3	42.4	55.9	75.4	72.7	73.8	60.5	60.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)