

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: P198780

Luminaire Tested: **XNV-AF-01-LED-U-T3R-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24250)
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-T3R-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5085.1 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
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

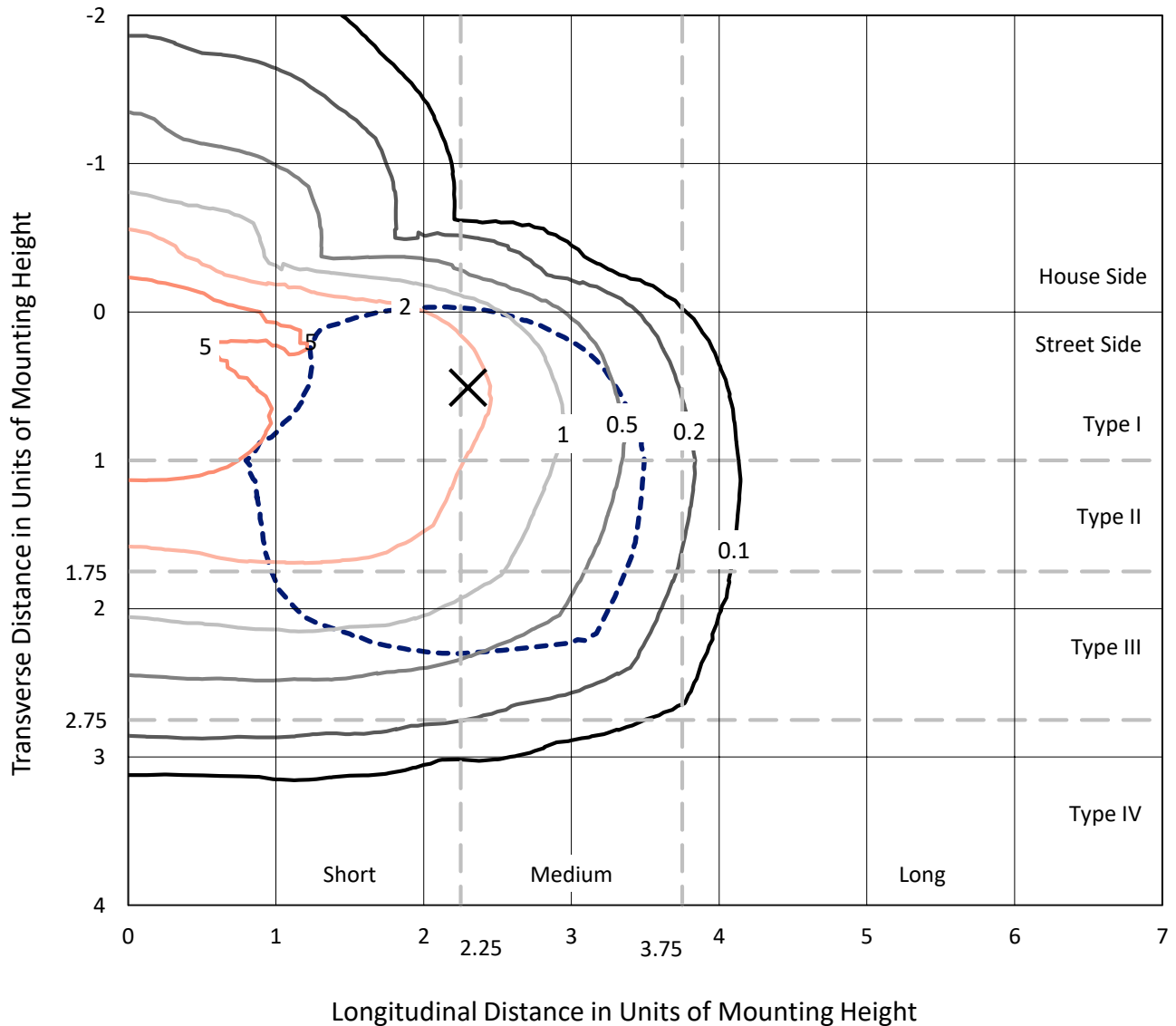


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Iso-Footcandle Lines of Horizontal Illumination

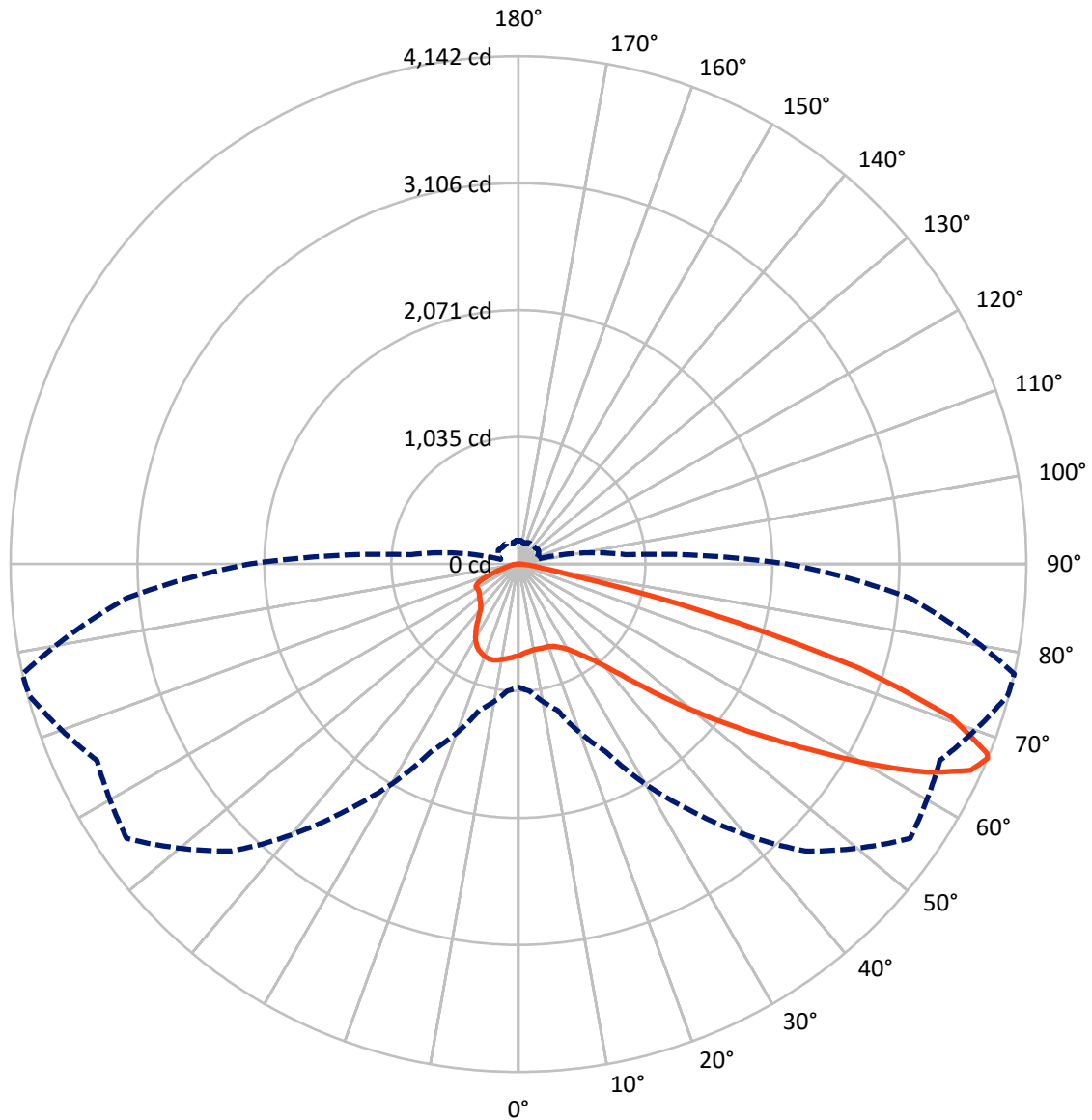
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type III - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	873.9	0.0	873.9
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	4211.2	0.0	4211.2
	% Fixture	82.8	0.0	82.8
Total	Lumens	5085.1	0.0	5085.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	1.3
10°-20°	184.6	3.6
20°-30°	313.6	6.2
30°-40°	501.8	9.9
40°-50°	772.4	15.2
50°-60°	1071.7	21.1
60°-70°	1429.6	28.1
70°-80°	680.3	13.4
80°-90°	64.4	1.3
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°	5085.1	100.0
0°-180°	5085.1	100.0

Coefficient of Utilization



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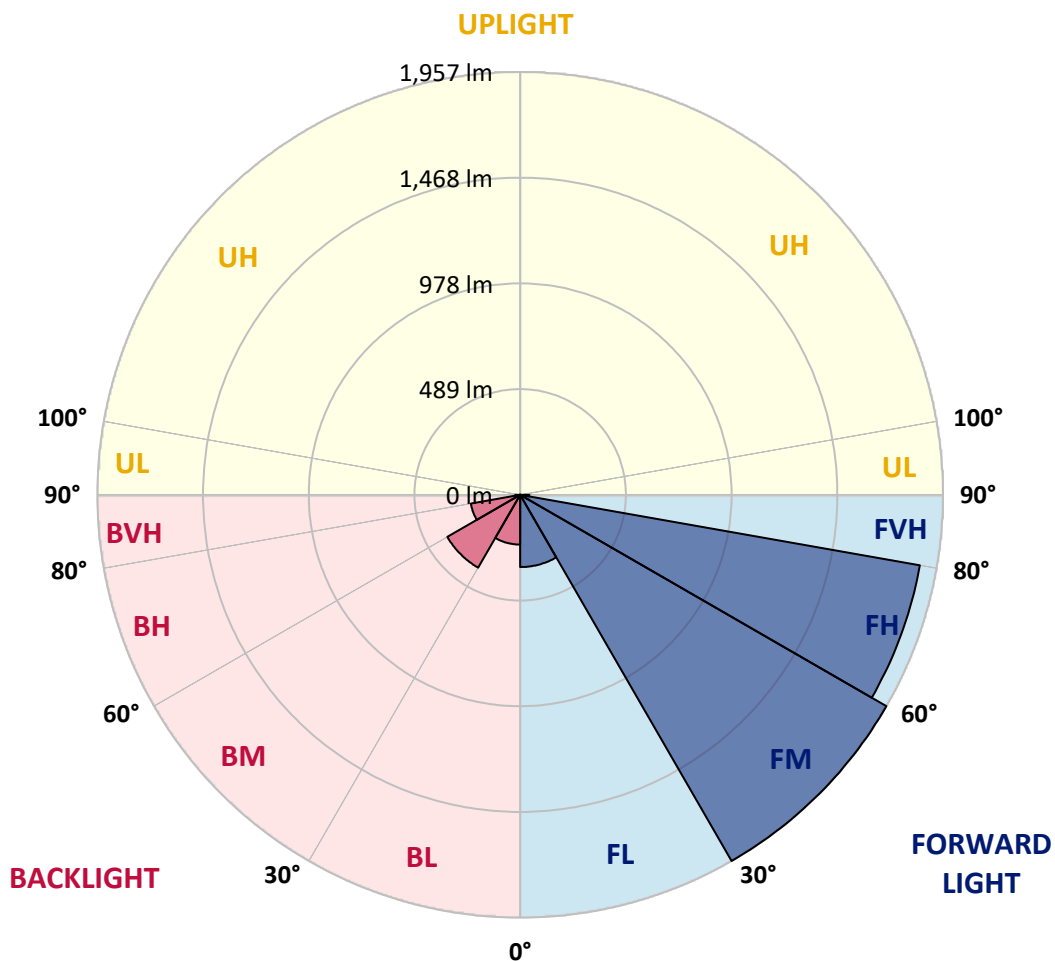
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	334.4	6.6			
FM	(30°-60°)	1956.8	38.5			
FH	(60°-80°)	1878.2	36.9			G2/5000
FVH	(80°-90°)	41.8	0.8			G1/100
BL	(0°-30°)	230.5	4.5	B1/500		
BM	(30°-60°)	389.1	7.7	B1/1000		
BH	(60°-80°)	231.7	4.6	B1/500		G1/500
BVH	(80°-90°)	22.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	748.4	748.4	748.4	748.4	748.4	748.4	748.4	748.4	748.4	748.4	748.4
2.5°	671.1	674.2	674.5	683.6	687.7	698.1	709.4	719.4	728.2	731.4	737.0
5°	603.8	603.8	604.8	610.7	622.4	639.0	662.6	688.3	715.3	722.0	738.7
7.5°	568.6	569.3	569.9	575.8	584.9	599.8	623.3	658.5	703.5	714.4	743.7
10°	571.7	570.8	567.6	566.4	570.2	579.6	600.1	636.2	693.4	710.3	752.8
12.5°	621.1	619.2	608.9	593.7	579.9	576.4	590.7	624.8	688.7	710.3	768.2
15°	705.6	706.9	686.5	655.0	618.9	594.3	592.5	620.8	687.1	712.3	786.1
17.5°	815.7	816.3	788.0	742.5	682.4	631.8	605.4	620.8	687.1	714.1	803.4
20°	932.6	928.2	896.1	838.9	761.0	683.6	628.9	624.5	689.0	717.0	819.7
22.5°	1032.9	1028.8	995.1	935.1	845.9	744.9	660.7	637.1	699.4	728.5	842.7
25°	1120.5	1123.1	1090.4	1022.7	930.4	814.1	708.2	666.0	721.1	749.6	870.9
27.5°	1227.1	1222.4	1184.7	1120.2	1017.4	885.8	767.5	702.5	746.9	775.1	905.5
30°	1350.3	1348.1	1297.2	1230.9	1113.3	965.9	826.3	741.7	780.4	810.0	948.9
32.5°	1500.0	1499.6	1444.9	1363.5	1221.1	1056.4	895.8	795.5	829.5	859.4	1006.5
35°	1669.4	1669.0	1612.5	1505.0	1345.3	1156.7	977.5	860.9	890.2	921.6	1075.0
37.5°	1786.9	1785.0	1755.5	1651.1	1482.7	1273.3	1079.7	948.9	959.0	994.2	1157.7
40°	1809.5	1820.9	1846.3	1784.7	1632.5	1402.8	1182.1	1043.5	1052.9	1098.2	1261.7
42.5°	1785.0	1799.8	1884.4	1901.7	1782.5	1559.7	1310.4	1174.7	1186.5	1242.8	1384.0
45°	1763.7	1776.6	1882.4	1966.4	1930.5	1730.6	1470.4	1334.6	1357.3	1427.0	1523.5
47.5°	1727.2	1739.1	1845.4	1978.0	2015.1	1895.3	1663.0	1527.0	1565.9	1650.5	1682.5
50°	1725.3	1730.6	1794.8	1939.0	2044.4	2020.4	1876.5	1752.0	1811.7	1909.1	1858.6
52.5°	1677.5	1714.9	1773.1	1876.8	2045.0	2093.4	2086.7	1998.7	2090.8	2198.6	2051.5
55°	1385.2	1428.2	1700.8	1846.3	2041.2	2155.9	2278.8	2261.2	2405.2	2518.6	2267.8
57.5°	1293.4	1311.6	1492.1	1855.4	2072.6	2259.3	2470.8	2543.2	2764.7	2888.6	2527.1
60°	1268.3	1287.5	1450.2	1859.8	2157.8	2447.6	2731.4	2861.6	3187.5	3318.9	2821.6
62.5°	1240.3	1265.1	1453.4	1863.9	2307.4	2726.1	3077.1	3207.0	3621.6	3738.8	3097.6
65°	1158.6	1191.5	1395.3	1838.1	2471.1	3075.6	3534.2	3567.2	3980.2	4054.7	3264.2
67°	1003.6	1039.7	1235.6	1689.1	2456.1	3311.0	3899.8	3792.6	4132.6	4141.7	3210.1
67.5°	954.6	992.0	1181.5	1627.2	2413.0	3341.9	3964.4	3823.7	4131.4	4121.4	3159.8
70°	642.8	684.9	836.7	1194.7	1935.5	3110.2	3948.8	3727.8	3860.4	3745.1	2714.8
72.5°	319.1	320.3	417.4	654.4	1172.7	2230.7	3294.0	3189.0	3129.3	2911.5	1992.2
75°	153.7	156.5	197.1	289.2	494.4	1151.6	2246.4	2151.8	1832.2	1586.4	997.0
77.5°	117.2	120.1	153.0	188.3	206.2	375.6	1112.7	899.3	530.9	424.0	281.0
80°	90.5	95.9	129.2	144.5	136.5	150.6	349.8	275.4	206.5	189.6	139.2
82.5°	70.7	73.9	109.7	109.7	94.3	100.9	162.9	159.1	128.3	115.7	74.8
85°	50.0	56.3	88.3	81.7	61.9	62.5	97.5	93.4	66.0	53.1	29.3
87.5°	22.3	28.6	62.9	53.4	33.0	25.5	39.9	34.3	26.1	20.2	13.5
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°	748.4	748.4	748.4	748.4	748.4	748.4	748.4	748.4	748.4	748.4	748.4
2.5°	743.4	748.4	756.3	761.0	767.2	769.8	772.3	776.7	780.1	779.2	777.6
5°	750.2	758.7	768.5	771.6	771.6	768.5	766.6	766.9	766.0	765.4	763.4
7.5°	760.4	771.9	778.9	775.7	766.0	753.7	742.2	735.2	728.5	724.5	725.8
10°	774.5	787.4	787.7	773.9	750.6	723.8	700.9	686.2	672.0	665.7	667.6
12.5°	794.9	807.8	796.8	766.9	726.1	684.3	642.1	611.6	584.3	577.8	575.8
15°	816.9	827.0	802.5	752.2	690.9	622.1	551.3	505.7	475.3	469.9	468.0
17.5°	836.1	841.8	799.6	725.8	635.3	526.8	444.5	413.7	407.3	410.5	410.5
20°	853.0	851.2	787.4	684.9	547.6	421.1	373.4	373.1	381.6	389.4	390.1
22.5°	874.4	859.7	767.9	624.2	442.8	351.4	343.2	351.4	360.8	369.6	370.6
25°	899.9	869.1	741.7	537.8	356.1	319.1	322.5	329.4	335.4	342.3	342.6
27.5°	925.4	876.4	705.0	436.3	308.9	298.3	302.1	304.8	306.5	310.9	310.9
30°	954.9	882.0	651.9	349.5	287.2	280.1	277.8	276.6	277.8	283.9	284.2
32.5°	992.0	892.0	579.3	299.8	277.2	267.2	255.8	249.6	254.0	264.6	266.6
35°	1034.1	904.0	492.2	280.1	273.7	260.9	240.2	230.4	232.0	241.7	243.3
37.5°	1086.9	919.4	406.4	275.4	277.2	260.2	232.9	219.1	212.2	212.5	212.2
40°	1154.5	934.8	338.5	276.6	284.8	261.9	229.4	207.8	193.3	194.0	195.2
42.5°	1225.2	944.8	295.4	280.4	293.9	264.0	228.2	196.7	184.2	194.9	204.6
45°	1307.8	942.0	273.1	283.9	300.8	264.9	223.5	195.5	185.2	217.2	235.4
47.5°	1402.8	929.8	260.5	285.4	302.7	264.6	220.0	199.6	193.0	248.6	269.3
50°	1505.9	910.5	250.5	282.8	301.8	263.4	223.8	204.6	196.1	255.5	271.6
52.5°	1618.7	892.9	240.2	277.2	297.1	259.6	228.5	202.4	187.3	235.4	247.7
55°	1752.3	888.8	228.5	267.5	289.2	255.5	226.0	195.5	177.6	208.7	216.3
57.5°	1905.0	914.3	213.4	255.5	278.4	247.3	220.0	191.7	174.1	189.9	194.0
60°	2099.0	970.6	197.4	243.0	265.3	235.1	214.7	192.7	175.0	187.0	187.9
62.5°	2250.5	1021.2	182.9	227.6	247.7	220.3	209.0	193.6	177.9	190.8	189.2
65°	2305.5	996.4	165.0	204.6	222.9	204.0	201.2	194.3	177.9	193.0	189.6
67°	2192.7	877.9	148.0	181.7	199.3	189.6	193.6	191.7	174.7	192.7	186.7
67.5°	2138.9	836.1	143.6	177.9	193.0	185.2	191.7	190.5	173.8	192.0	185.2
70°	1764.0	599.8	121.3	149.4	161.5	163.2	180.1	182.3	166.2	180.4	167.9
72.5°	1255.1	375.3	104.6	115.7	130.4	139.5	164.4	171.3	156.2	156.8	146.5
75°	621.1	201.5	93.4	89.3	101.5	116.3	143.3	156.2	141.5	130.7	127.3
77.5°	209.6	114.1	78.9	72.0	78.9	93.4	118.8	136.5	124.8	110.7	108.4
80°	108.4	83.0	61.6	57.8	62.2	72.3	93.1	113.4	106.6	107.2	88.3
82.5°	67.6	50.6	44.3	44.0	47.2	55.3	68.5	92.1	91.5	78.3	56.9
85°	31.4	29.3	28.3	29.3	30.2	31.4	44.6	65.7	69.5	42.1	37.4
87.5°	13.2	12.9	11.4	12.3	13.5	13.2	17.9	27.9	39.0	26.4	24.2
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)