

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: P198540

Luminaire Tested: **XNV-AF-01-LED-U-SL2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24257)
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-SL2-7030-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4241 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G1

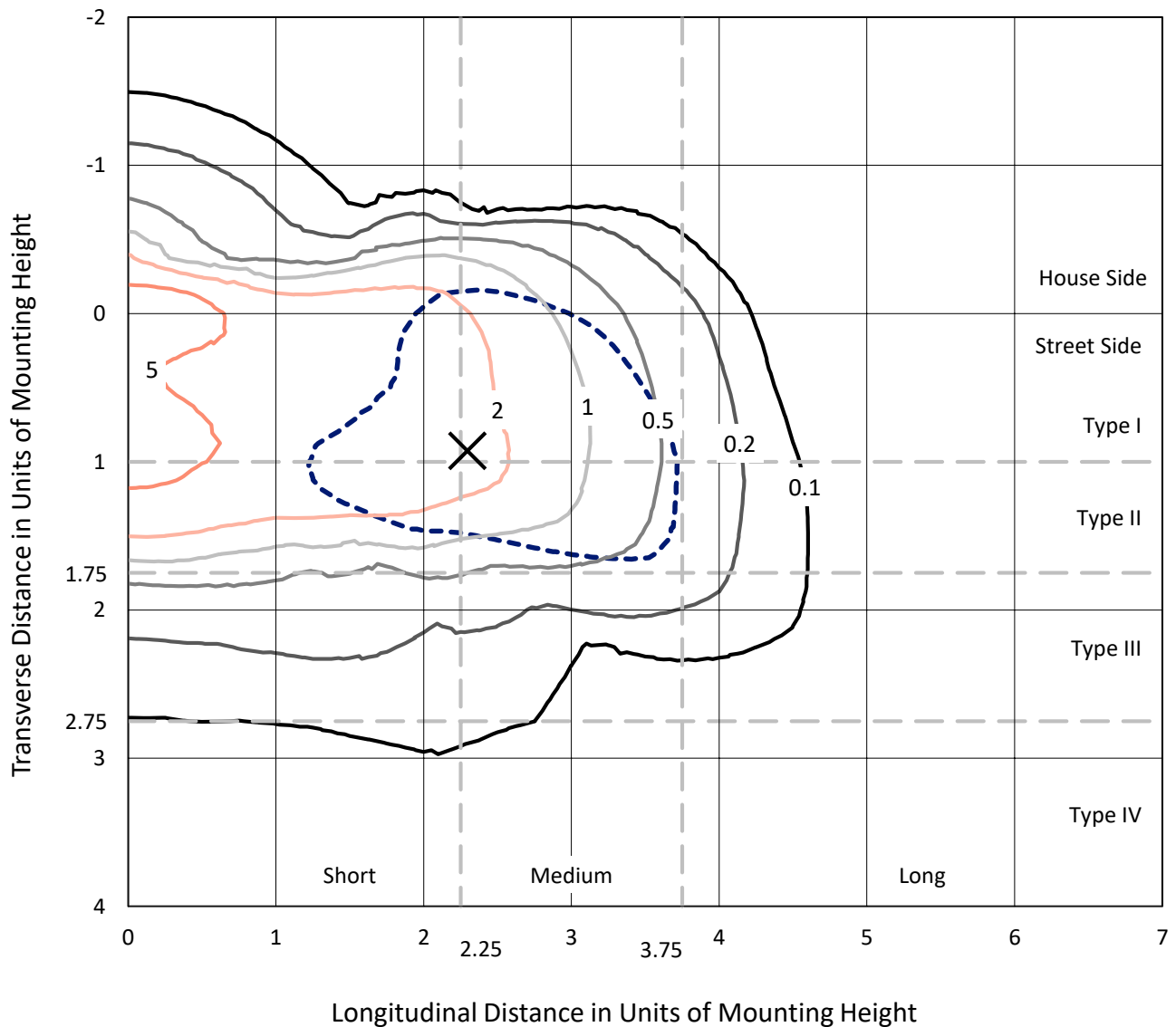
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

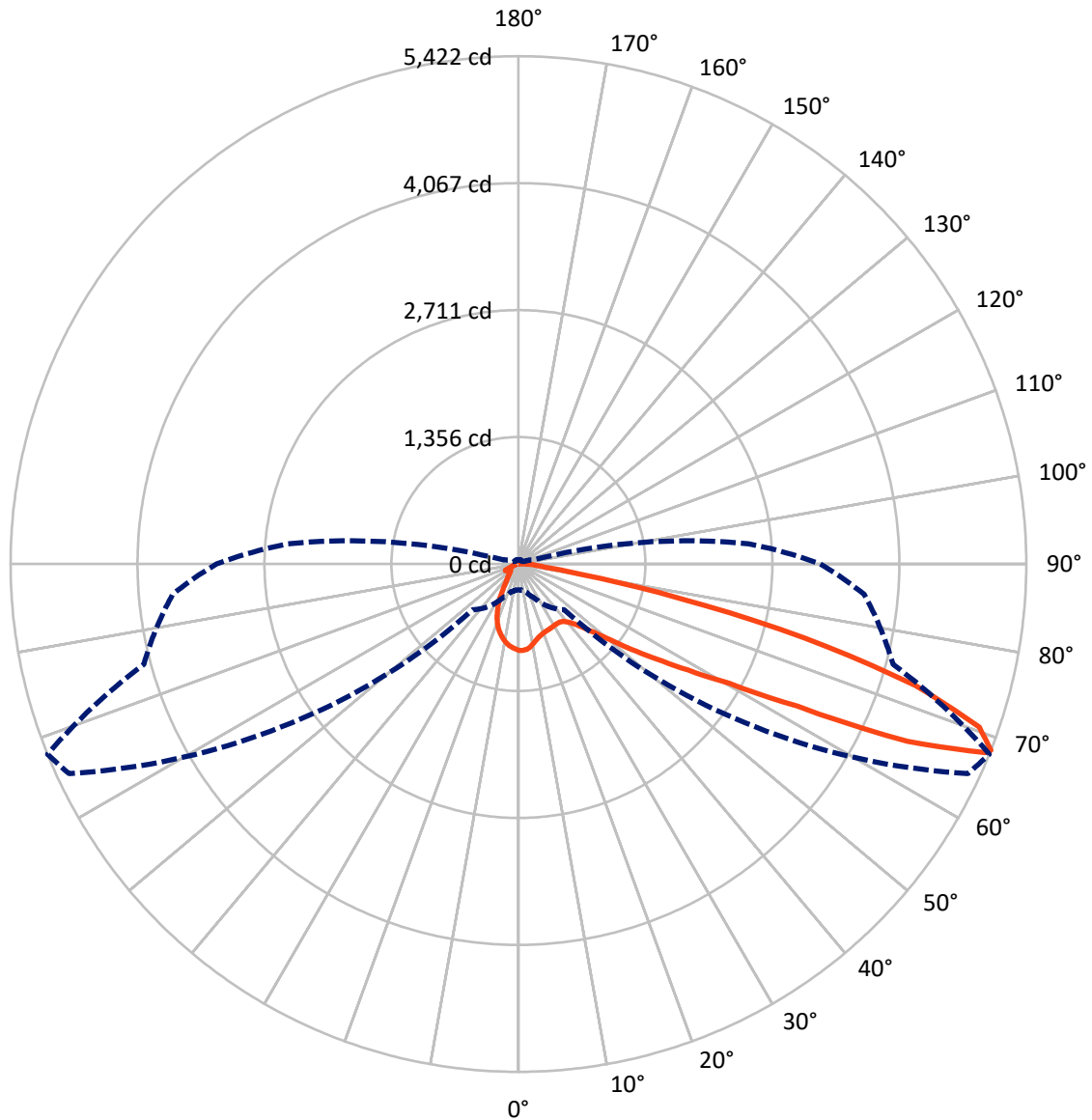
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	693.8	0.0	693.8
	% Fixture	16.4	0.0	16.4
Street Side	Lumens	3547.2	0.0	3547.2
	% Fixture	83.6	0.0	83.6
Total	Lumens	4241.0	0.0	4241.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.1	1.9
10°-20°	183.4	4.3
20°-30°	248.0	5.8
30°-40°	349.7	8.2
40°-50°	575.1	13.6
50°-60°	891.4	21.0
60°-70°	1155.7	27.3
70°-80°	663.2	15.6
80°-90°	95.4	2.2
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°	4241.0	100.0
0°-180°	4241.0	100.0

Coefficient of Utilization



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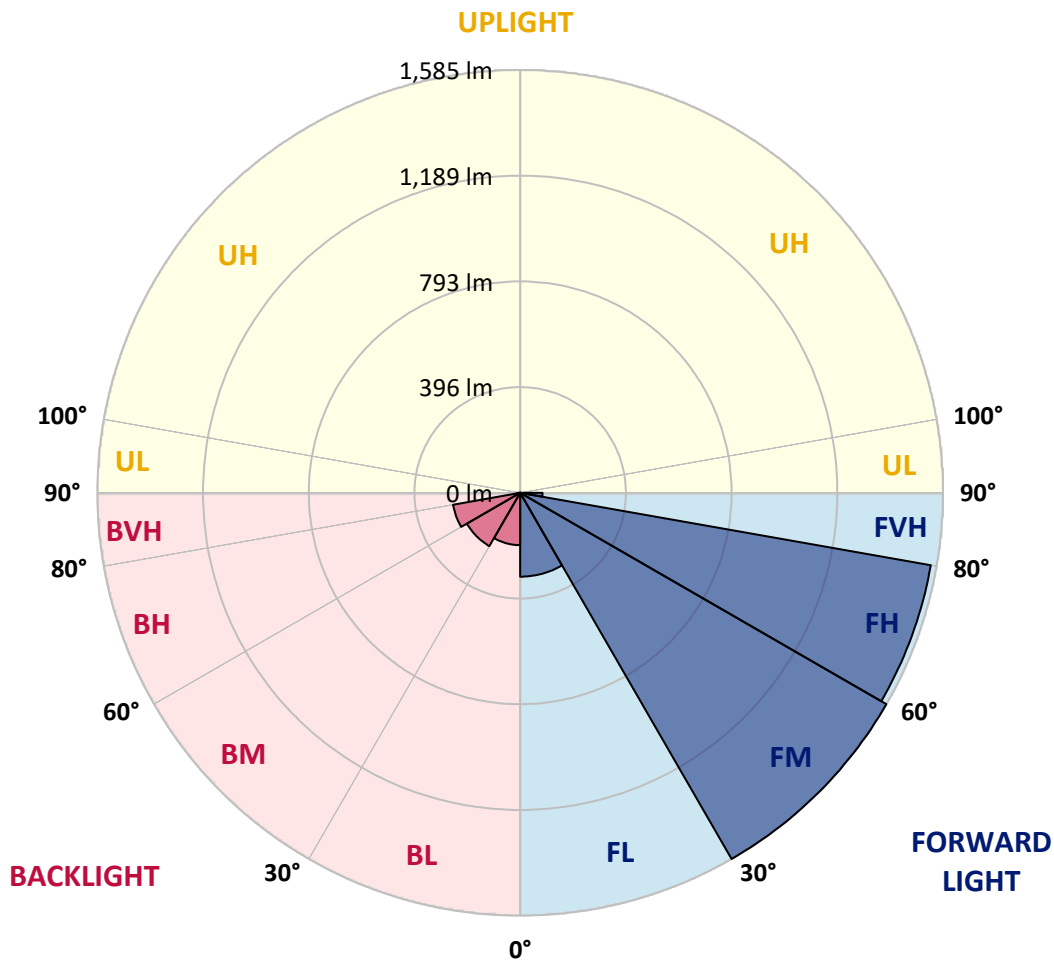
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	314.3	7.4			
FM	(30°-60°)	1585.4	37.4			
FH	(60°-80°)	1563.4	36.9			G1/1800
FVH	(80°-90°)	84.0	2.0			G1/100
BL	(0°-30°)	196.2	4.6	B1/500		
BM	(30°-60°)	230.8	5.4	B1/1000		
BH	(60°-80°)	255.5	6.0	B1/500		G1/500
BVH	(80°-90°)	11.4	0.3			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°	68°	75°	85°
0°	922.8	922.8	922.8	922.8	922.8	922.8	922.8	922.8	922.8	922.8	922.8
2.5°	898.1	905.4	905.4	910.6	915.3	919.2	922.5	922.5	922.5	920.3	918.4
5°	803.7	813.4	814.8	828.1	845.5	866.8	890.7	911.7	915.9	923.6	926.7
7.5°	738.0	741.1	746.3	755.5	773.2	799.5	836.9	884.0	895.4	919.8	932.5
10°	691.5	694.0	698.4	707.5	723.6	747.4	784.3	845.5	864.3	907.6	932.8
12.5°	657.4	659.3	663.5	671.8	688.2	709.5	747.2	810.9	834.2	895.4	936.7
15°	630.8	634.1	637.5	645.5	662.1	682.6	720.8	785.7	810.9	885.7	943.9
17.5°	620.3	621.9	622.5	626.7	641.6	662.4	700.6	767.9	794.0	877.9	949.4
20°	626.9	627.2	621.7	618.9	627.5	646.6	683.7	754.6	781.2	871.0	951.6
22.5°	656.0	656.0	641.6	629.4	623.6	635.5	672.4	745.5	774.3	865.7	951.6
25°	711.4	708.9	686.5	662.4	636.6	631.6	665.2	739.7	769.0	863.0	948.0
27.5°	784.3	782.1	753.5	717.8	671.3	640.0	662.7	735.0	763.8	858.8	940.3
30°	872.9	871.0	838.6	791.8	723.1	666.3	668.5	731.6	759.6	851.9	927.2
32.5°	961.3	960.2	934.4	886.5	794.5	710.9	683.7	731.1	757.4	843.6	911.4
35°	1050.2	1050.2	1034.4	994.0	890.7	777.9	715.6	741.3	761.6	839.1	897.9
37.5°	1181.6	1176.3	1146.9	1105.1	1011.7	864.9	767.1	763.0	777.6	846.6	893.4
40°	1384.9	1369.7	1296.2	1225.9	1143.9	976.3	842.5	804.8	813.7	872.1	904.0
42.5°	1597.7	1573.6	1476.3	1363.8	1280.5	1113.7	941.4	872.7	872.4	921.4	937.5
45°	1780.2	1767.8	1662.5	1519.8	1436.4	1268.3	1066.3	973.5	963.5	997.9	1002.0
47.5°	1886.3	1878.0	1814.6	1684.9	1621.5	1450.8	1224.8	1113.4	1094.6	1115.1	1108.7
50°	1857.0	1865.0	1846.7	1780.5	1820.4	1707.4	1426.7	1305.1	1269.4	1289.9	1274.4
52.5°	1702.4	1724.0	1740.3	1753.1	1934.8	2050.6	1680.5	1544.5	1514.8	1511.2	1496.3
55°	1424.0	1458.3	1509.8	1603.5	1904.1	2326.3	2123.8	1834.0	1790.8	1768.0	1773.9
57.5°	969.1	1021.2	1132.2	1310.4	1744.2	2443.7	2779.2	2208.0	2134.8	2053.9	2072.8
60°	533.8	577.3	709.5	889.0	1379.4	2426.3	3360.2	2815.8	2585.6	2371.1	2409.9
62.5°	345.5	354.9	453.2	607.3	846.6	2142.0	3682.9	3831.7	3343.8	2789.5	2844.0
65°	277.6	284.2	332.4	489.8	589.8	1378.0	3697.3	4885.5	4563.9	3357.9	3359.6
67.5°	271.2	274.3	302.2	412.0	553.2	750.2	3195.9	5301.1	5375.6	4028.9	3704.5
68°	275.1	278.7	307.0	399.2	553.0	691.5	2953.7	5294.7	5422.4	4141.1	3704.5
70°	242.7	247.1	313.0	413.1	529.4	594.5	2022.6	5013.5	5219.1	4399.0	3515.0
72.5°	126.9	123.3	154.9	326.1	595.9	619.5	1068.5	4188.5	4428.4	4074.1	3036.9
75°	98.9	90.0	86.7	128.8	524.2	642.4	620.6	2977.0	3158.2	2936.8	2029.8
77.5°	93.1	82.3	75.9	76.2	230.8	668.5	502.0	1752.0	1752.0	1401.0	647.7
80°	74.8	64.8	60.7	69.3	111.4	616.1	523.9	798.4	681.0	362.1	178.4
82.5°	49.3	44.0	44.3	56.2	84.5	411.4	606.7	394.2	296.2	160.4	105.0
85°	31.3	26.9	29.9	39.3	63.2	183.4	600.6	274.0	196.1	90.0	52.4
87.5°	15.8	12.2	15.0	20.5	38.5	52.6	494.5	244.6	145.4	37.4	28.5
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°	922.8	922.8	922.8	922.8	922.8	922.8	922.8	922.8	922.8	922.8	922.8
2.5°	918.4	912.3	909.2	904.2	898.1	892.1	887.9	886.0	884.8	885.4	885.1
5°	925.0	917.0	904.0	885.4	866.3	846.1	830.6	818.6	811.2	808.9	808.4
7.5°	930.0	918.4	894.0	860.2	827.5	792.0	761.8	737.7	721.4	713.9	713.6
10°	929.2	914.2	875.7	825.8	777.9	725.8	678.5	638.0	608.6	594.5	594.0
12.5°	930.0	909.5	853.3	785.7	717.0	642.4	572.1	509.2	465.4	444.6	443.8
15°	933.3	904.5	830.3	740.8	645.8	540.5	439.9	361.0	321.1	307.5	307.5
17.5°	933.1	896.2	803.7	688.7	561.3	420.3	300.3	251.5	247.7	260.1	262.1
20°	927.5	882.9	769.3	626.9	462.1	290.9	203.6	196.7	227.7	262.1	266.0
22.5°	918.9	865.7	729.7	555.2	346.6	189.5	157.1	167.6	209.7	252.4	258.5
25°	907.0	845.0	684.3	471.8	230.5	136.3	131.0	144.1	173.7	202.2	206.7
27.5°	889.6	818.6	634.7	381.5	147.1	112.2	114.1	123.3	136.0	148.2	150.7
30°	867.7	787.9	580.7	281.5	111.6	100.3	103.6	109.2	114.7	122.4	124.1
32.5°	845.5	756.6	524.4	193.4	97.5	93.9	97.2	100.3	105.0	110.3	111.4
35°	825.6	727.5	466.5	134.9	91.4	89.8	91.4	93.4	98.1	103.3	103.9
37.5°	811.2	703.7	406.1	106.7	87.8	86.2	87.0	87.8	93.4	101.1	101.9
40°	809.2	687.9	344.9	95.9	85.0	82.8	82.3	82.8	90.0	98.9	99.7
42.5°	828.1	688.7	285.1	91.4	82.8	80.3	78.1	79.2	85.6	92.5	93.1
45°	872.7	708.1	233.3	89.5	80.9	79.0	75.6	76.2	79.2	82.8	83.4
47.5°	951.3	750.5	193.6	88.4	79.2	77.6	73.4	71.8	72.0	74.0	74.0
50°	1077.1	821.4	169.5	87.3	77.8	74.8	70.1	66.8	65.9	67.0	67.3
52.5°	1264.7	943.0	157.9	85.0	75.4	71.2	65.9	62.6	61.2	62.3	62.3
55°	1518.2	1137.2	152.4	82.0	72.3	66.8	62.1	59.3	58.2	59.0	59.0
57.5°	1807.1	1389.6	161.8	77.8	68.4	62.1	58.7	56.8	56.0	56.8	57.1
60°	2150.3	1719.8	226.6	72.6	64.3	57.9	56.0	54.9	54.3	55.1	55.1
62.5°	2606.6	2159.2	350.7	68.4	59.8	54.0	53.5	52.9	52.4	53.2	53.2
65°	3099.2	2559.0	361.0	65.9	56.0	50.7	51.0	51.0	50.4	51.3	51.3
67.5°	3256.0	2524.3	201.7	62.9	51.3	47.4	48.5	48.5	48.2	49.0	48.8
68°	3222.7	2469.5	175.6	62.1	50.4	46.5	47.7	47.9	47.7	48.5	48.2
70°	2975.1	2168.1	115.5	57.3	46.8	43.8	45.4	45.7	45.4	46.5	46.3
72.5°	2455.9	1626.2	85.3	50.1	42.4	40.2	41.8	42.1	42.4	43.5	43.2
75°	1559.7	898.1	67.3	42.7	38.0	36.0	37.7	38.5	39.1	40.7	39.9
77.5°	427.2	272.6	54.6	36.3	32.7	31.9	33.0	34.1	34.6	36.6	35.2
80°	149.6	120.5	45.4	30.8	27.1	26.9	28.0	29.1	29.6	31.3	29.6
82.5°	90.9	78.7	36.3	24.1	21.3	21.1	22.4	23.5	24.1	24.1	23.0
85°	47.4	41.6	26.6	16.9	14.7	13.9	16.3	17.7	18.0	17.7	16.9
87.5°	26.6	23.5	14.1	8.0	6.6	6.9	8.6	10.5	11.4	11.1	10.5
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)