

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: P271234

Luminaire Tested: **XNV-AF-01-LED-U-SL3-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271234
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24262)
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-SL3-7027-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3457.7 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

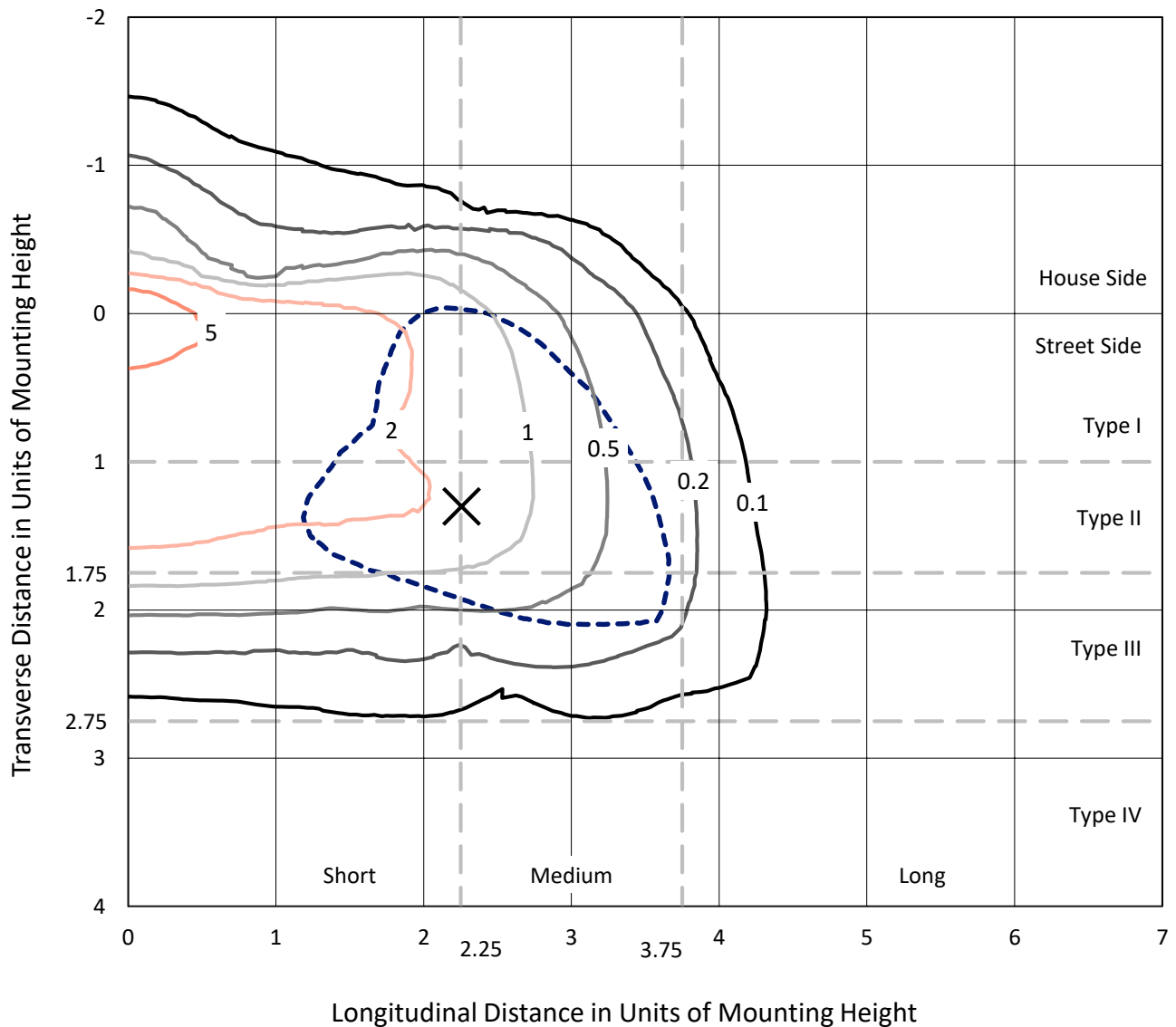
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

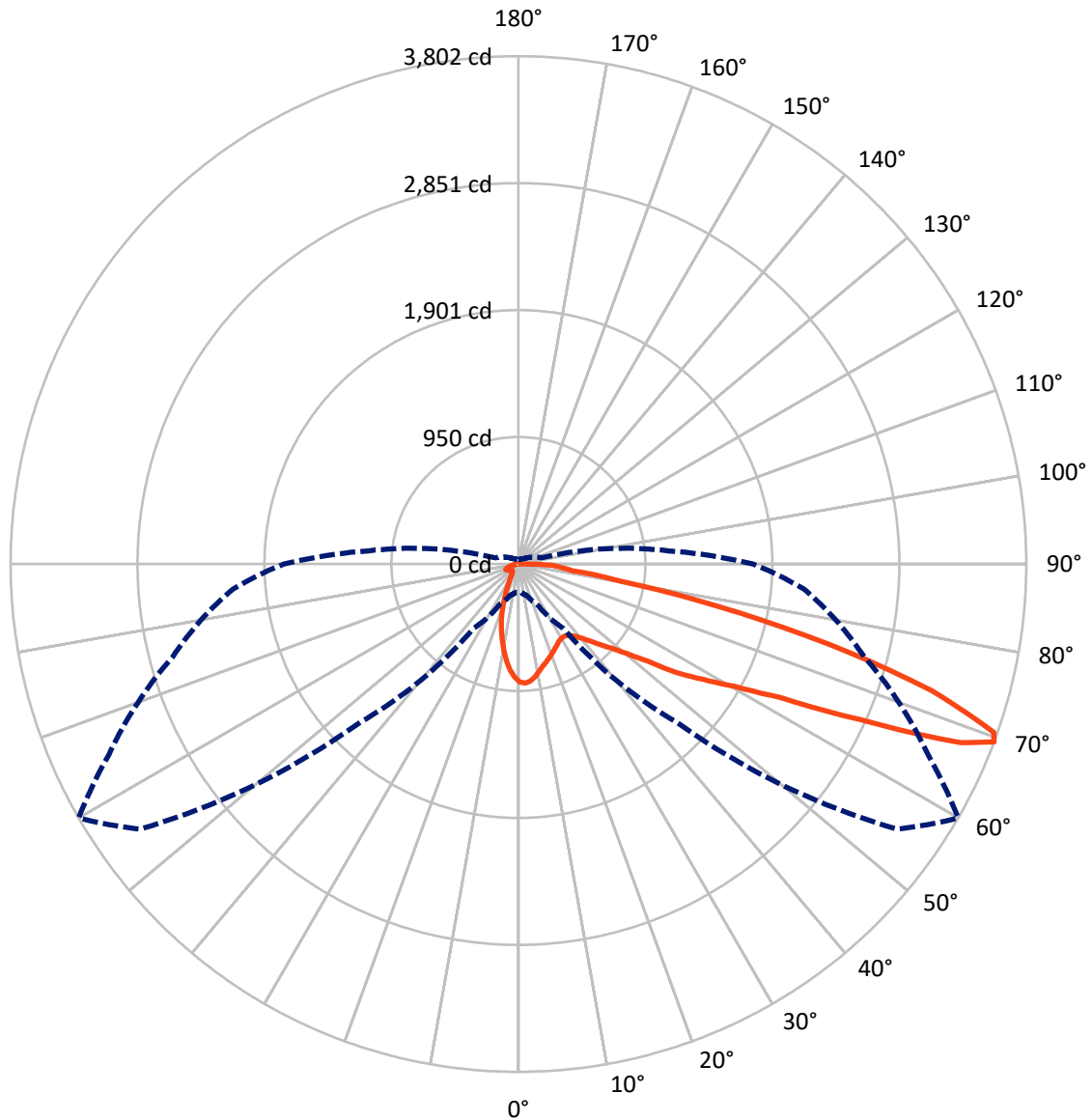
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	493.2	0.0	493.2
	% Fixture	14.3	0.0	14.3
Street Side	Lumens	2964.6	0.0	2964.6
	% Fixture	85.7	0.0	85.7
Total	Lumens	3457.7	0.0	3457.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	2.2
10°-20°	160.2	4.6
20°-30°	204.4	5.9
30°-40°	281.3	8.1
40°-50°	455.7	13.2
50°-60°	715.2	20.7
60°-70°	953.4	27.6
70°-80°	530.3	15.3
80°-90°	82.3	2.4
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°	3457.7	100.0
0°-180°	3457.7	100.0

Coefficient of Utilization



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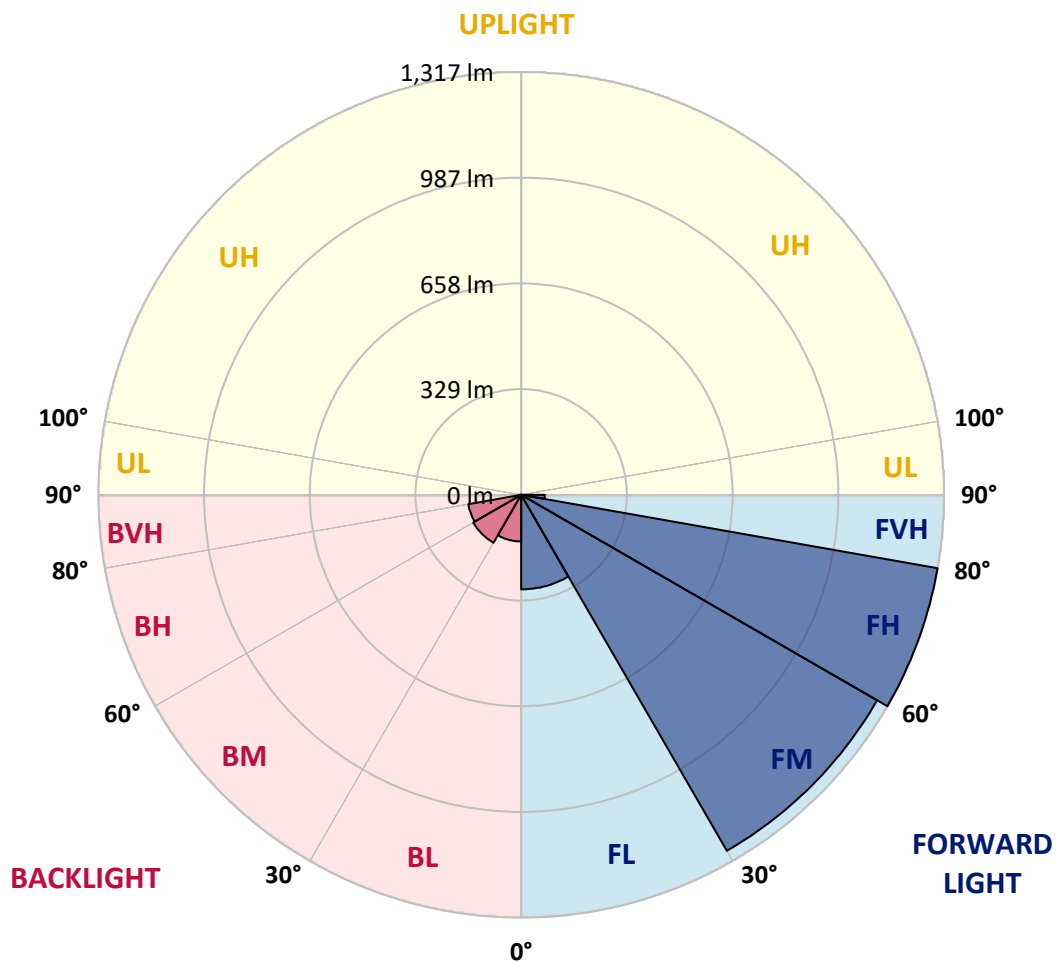
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	294.2	8.5			
FM	(30°-60°)	1279.9	37.0			
FH	(60°-80°)	1316.6	38.1			G1/1800
FVH	(80°-90°)	73.9	2.1			G1/100
BL	(0°-30°)	145.3	4.2	B1/500		
BM	(30°-60°)	172.3	5.0	B0/220		
BH	(60°-80°)	167.2	4.8	B1/500		G1/500
BVH	(80°-90°)	8.3	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	882.2	882.2	882.2	882.2	882.2	882.2	882.2	882.2	882.2	882.2	882.2
2.5°	905.9	908.1	908.1	906.2	905.1	898.7	894.9	892.2	887.5	878.9	871.1
5°	873.4	878.1	880.0	880.9	886.6	884.7	884.9	883.2	879.1	869.9	857.3
7.5°	814.0	814.9	818.4	824.4	838.4	848.1	856.1	857.6	856.8	849.8	832.1
10°	755.5	757.0	761.3	771.4	784.7	798.7	816.0	823.0	828.3	826.1	803.8
12.5°	706.8	707.1	711.7	723.6	738.3	755.8	779.4	790.5	803.2	808.1	783.1
15°	660.1	663.2	667.6	681.9	700.1	722.3	749.5	764.7	781.3	796.0	767.2
17.5°	624.6	627.0	629.7	641.5	662.8	690.4	723.9	740.4	762.3	784.7	750.8
20°	605.1	605.9	604.0	609.8	627.7	657.6	696.5	716.2	742.4	773.8	733.9
22.5°	601.1	601.1	593.8	592.7	600.6	625.9	668.1	692.2	724.2	766.3	718.9
25°	619.7	618.5	604.6	592.1	589.1	602.0	641.0	670.8	708.7	766.1	707.5
27.5°	655.0	653.2	636.1	614.9	596.5	590.9	620.2	650.6	696.5	773.6	701.8
30°	698.9	698.3	680.9	654.3	624.0	595.3	611.9	640.1	688.2	787.5	701.5
32.5°	747.0	743.8	733.2	706.6	667.3	620.0	616.9	640.6	686.0	807.9	706.6
35°	798.2	796.0	793.4	766.6	722.1	663.4	638.3	655.9	696.8	836.3	721.1
37.5°	863.5	860.9	865.3	836.1	787.5	720.4	674.7	686.5	719.1	877.6	747.8
40°	979.4	972.2	959.8	914.8	863.9	790.2	727.3	729.1	757.0	932.8	790.9
42.5°	1169.9	1147.0	1085.6	1002.9	944.4	871.4	795.8	787.4	809.4	1005.7	853.4
45°	1360.8	1335.1	1231.2	1098.8	1027.8	958.5	880.5	860.2	874.5	1090.7	933.9
47.5°	1484.0	1471.5	1354.4	1194.8	1115.1	1053.4	977.4	944.1	954.3	1186.9	1033.3
50°	1520.2	1509.3	1417.3	1270.1	1197.6	1168.1	1097.3	1053.3	1055.0	1299.3	1152.3
52.5°	1493.2	1488.8	1427.6	1316.6	1273.3	1288.9	1263.3	1202.0	1187.4	1422.6	1281.3
55°	1457.1	1458.6	1435.0	1363.4	1350.5	1401.5	1480.6	1431.3	1369.1	1551.1	1415.6
57.5°	1343.2	1344.4	1405.9	1452.6	1497.7	1559.4	1649.8	1629.0	1556.8	1689.6	1566.3
60°	1081.6	1090.3	1227.4	1434.1	1666.0	1870.5	1892.6	1856.7	1756.4	1849.3	1762.0
62.5°	772.7	780.4	939.4	1245.1	1646.4	2222.5	2341.1	2198.2	2027.0	2088.0	2037.4
65°	405.9	404.6	527.8	860.2	1386.8	2304.2	3047.4	2804.4	2483.2	2416.4	2303.6
67.5°	226.8	234.2	281.8	433.9	903.8	2028.0	3498.7	3570.3	3117.3	2676.9	2292.0
69°	209.8	212.2	244.1	335.4	589.1	1673.2	3459.8	3801.5	3384.6	2678.0	2144.3
70°	203.7	206.4	235.4	309.0	494.8	1371.0	3318.6	3774.5	3449.6	2618.6	2010.0
72.5°	182.7	186.3	214.4	277.8	417.1	706.6	2673.1	3230.6	3124.8	2288.7	1558.5
75°	155.9	161.9	204.5	275.8	395.2	449.2	1782.6	2406.9	2325.7	1636.8	884.2
77.5°	64.5	65.1	89.3	201.9	414.7	429.8	958.1	1524.7	1349.7	717.7	266.3
80°	45.0	44.1	44.6	59.0	334.6	432.9	491.6	775.3	602.7	189.4	124.7
82.5°	37.9	37.5	39.3	37.0	113.2	491.2	411.1	404.1	283.9	102.0	59.4
85°	25.1	24.4	32.2	33.6	53.9	390.0	442.1	317.7	211.6	54.5	25.3
87.5°	12.1	12.4	18.4	22.8	28.6	123.4	423.6	251.3	163.4	23.7	10.2
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°	882.2	882.2	882.2	882.2	882.2	882.2	882.2	882.2	882.2	882.2	882.2
2.5°	868.0	861.5	855.5	847.9	842.2	837.2	830.7	830.4	829.2	830.8	831.2
5°	848.8	837.7	820.8	801.9	788.7	771.1	754.0	748.4	741.9	741.2	743.3
7.5°	819.8	802.5	773.6	744.8	715.9	686.5	658.5	644.4	630.6	626.4	628.4
10°	787.4	765.4	721.2	674.3	633.8	589.7	547.2	519.7	494.6	484.0	486.7
12.5°	762.1	734.2	672.0	611.0	550.3	487.4	431.2	377.0	336.0	317.6	318.5
15°	740.4	704.6	625.9	544.8	468.7	382.5	304.6	241.6	205.7	192.4	192.0
17.5°	716.8	673.5	577.8	483.2	384.5	277.8	203.9	166.7	152.5	148.1	148.1
20°	691.8	641.7	527.5	415.9	295.8	194.0	153.4	139.0	133.7	132.4	132.1
22.5°	668.5	610.4	476.9	344.3	213.9	147.2	130.7	125.0	124.1	125.3	125.3
25°	650.2	582.9	425.7	269.0	155.6	123.2	116.2	115.5	118.8	122.9	123.4
27.5°	636.4	558.2	375.1	196.5	122.3	107.3	104.9	107.7	115.5	123.4	125.0
30°	626.8	537.2	314.6	141.3	102.0	94.1	95.1	100.3	112.0	124.1	127.5
32.5°	622.6	520.2	253.6	108.4	87.1	82.7	85.6	92.3	104.5	116.6	120.6
35°	626.6	507.7	197.4	90.0	76.3	72.9	76.3	83.2	91.1	97.0	99.5
37.5°	641.0	503.3	148.6	79.8	69.2	65.8	68.5	73.2	76.7	79.0	80.0
40°	671.5	508.0	116.4	74.5	65.1	61.4	62.2	64.3	66.7	68.5	68.7
42.5°	719.7	523.4	103.6	72.6	62.7	57.9	56.8	58.3	60.9	63.4	63.9
45°	784.0	548.8	102.1	73.2	61.7	54.9	52.8	54.3	57.9	61.9	62.5
47.5°	867.1	589.1	108.4	76.7	62.3	53.4	50.1	51.7	56.4	61.7	62.5
50°	965.6	645.1	120.0	82.0	65.3	53.4	49.0	50.3	55.2	61.3	62.2
52.5°	1081.6	722.9	132.0	87.3	69.9	55.4	49.4	49.2	53.7	59.2	60.2
55°	1209.6	819.6	143.5	92.0	72.3	58.1	50.6	47.9	51.5	55.9	56.8
57.5°	1360.0	951.8	163.6	96.5	73.7	60.0	51.9	46.5	48.6	51.7	52.3
60°	1564.3	1146.3	202.8	104.1	76.0	60.9	52.1	45.3	45.0	47.3	47.4
62.5°	1830.6	1374.0	240.3	112.8	80.9	61.3	51.3	44.3	42.1	42.8	42.8
65°	2020.0	1457.9	229.4	120.5	85.3	60.9	50.3	43.7	40.0	38.7	38.7
67.5°	1912.2	1287.8	194.9	122.3	85.8	58.5	48.2	42.1	37.9	35.3	35.3
69°	1753.9	1128.8	178.9	118.8	82.3	55.7	46.2	40.6	36.7	33.4	33.4
70°	1624.9	1008.3	169.2	114.7	78.1	53.2	44.1	39.0	35.3	32.6	32.3
72.5°	1213.2	672.9	144.5	99.0	64.0	45.0	38.5	34.9	31.7	30.0	30.0
75°	640.1	337.3	118.3	80.7	49.4	35.9	31.7	29.3	27.5	27.3	27.0
77.5°	209.8	152.5	85.2	60.7	36.3	27.9	25.3	23.7	23.4	24.4	24.4
80°	113.2	91.1	54.7	41.1	25.3	20.8	19.6	19.4	19.9	21.3	21.3
82.5°	54.9	45.0	32.6	25.3	17.2	15.4	15.4	15.5	16.3	18.0	18.0
85°	23.7	21.3	18.9	14.3	10.6	9.5	10.9	11.9	12.7	13.7	14.3
87.5°	11.3	10.1	8.7	5.5	4.6	4.9	5.7	7.0	8.4	9.3	9.5
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)