

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: McGRAW-EDISON

Report Number: P299935

Luminaire Tested: **GLNA-AF-01-LED-E1-SL3-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-SL3-7027-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3555.1 lumens
Efficiency: N/A
Efficacy: 104.6 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

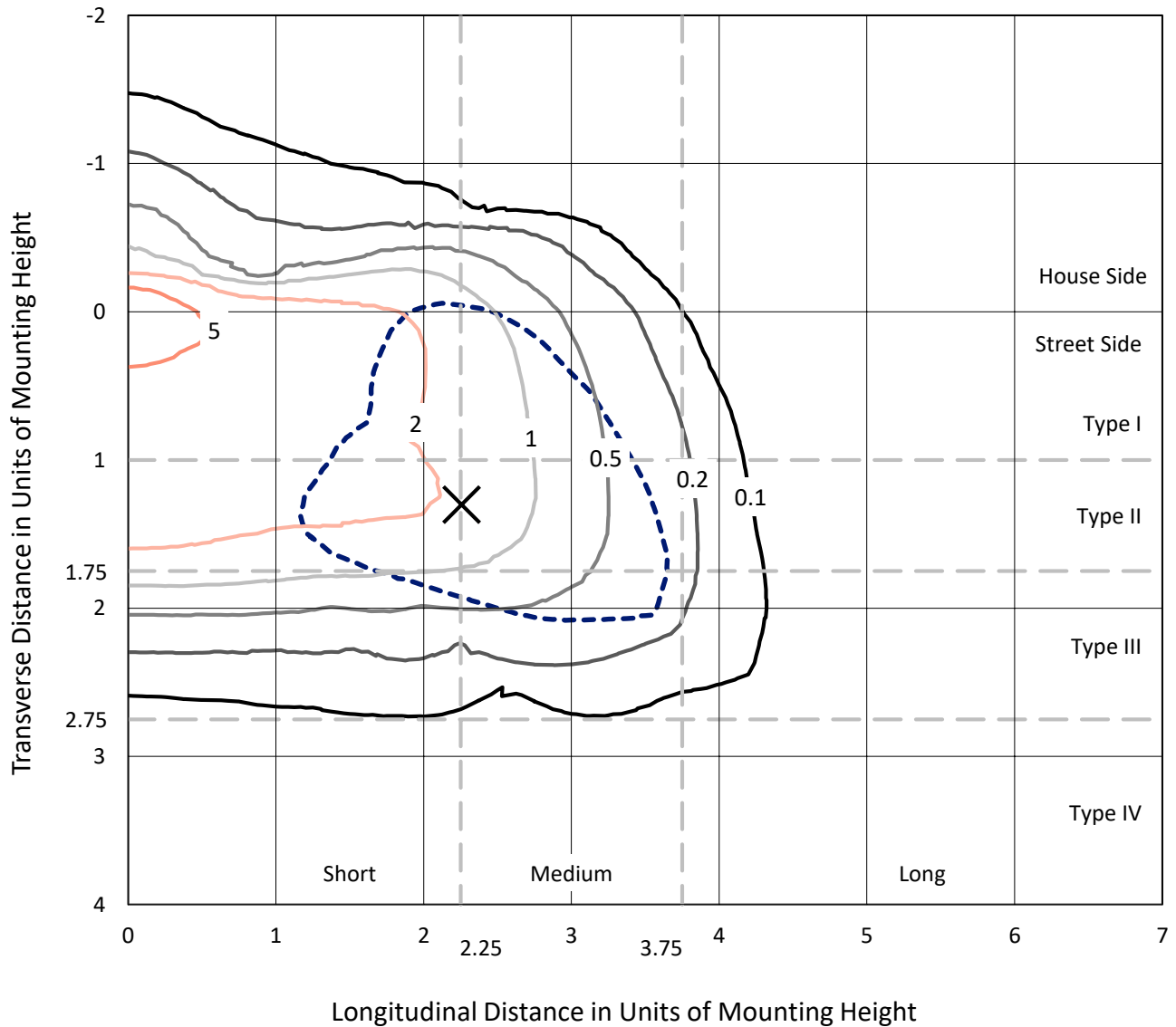
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

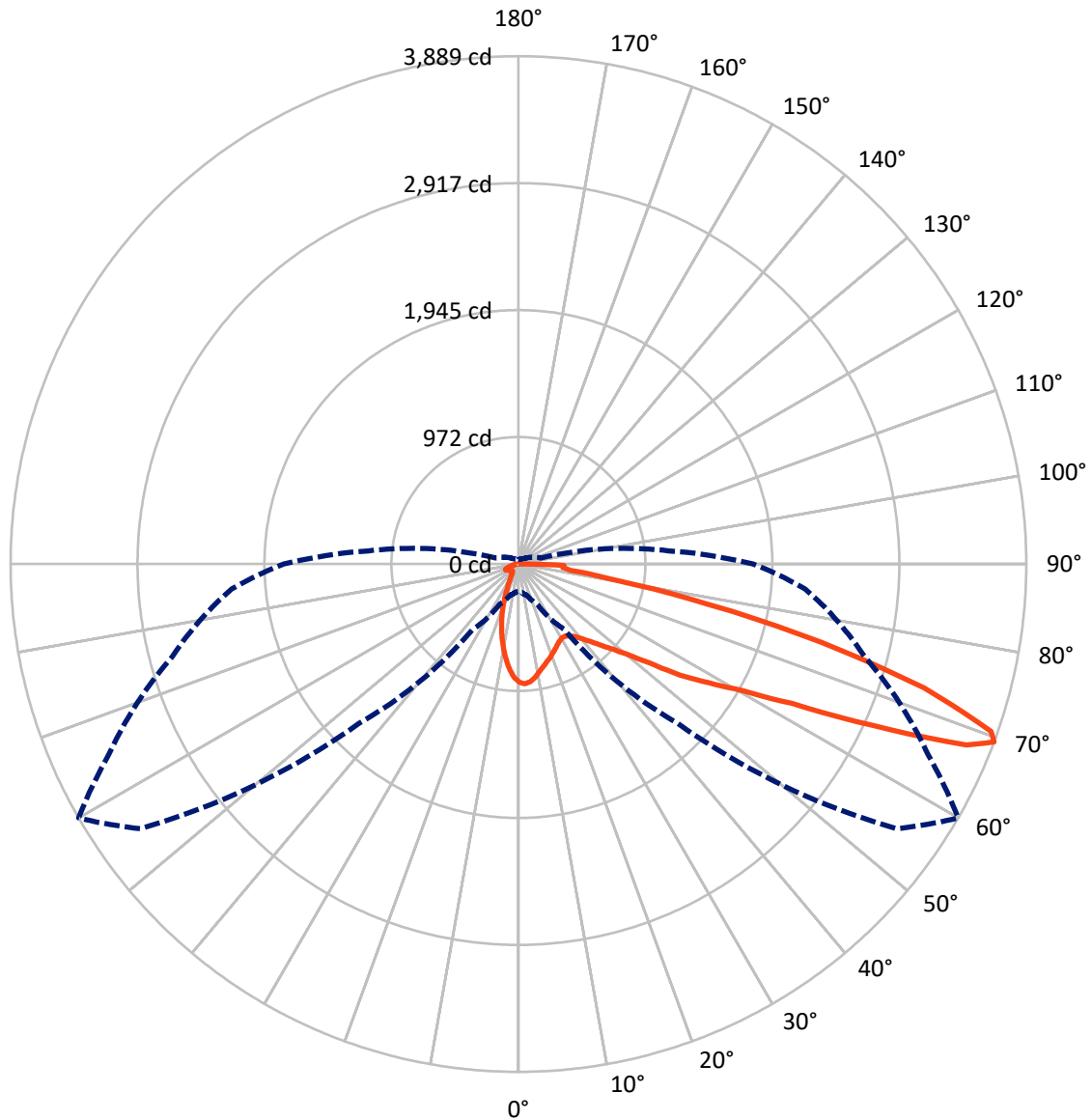
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 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	505.8	0.0	505.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	3049.3	0.0	3049.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	3555.1	0.0	3555.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	2.2
10°-20°	163.2	4.6
20°-30°	207.9	5.8
30°-40°	285.9	8.0
40°-50°	463.8	13.0
50°-60°	743.9	20.9
60°-70°	990.0	27.8
70°-80°	534.5	15.0
80°-90°	89.2	2.5
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°	3555.1	100.0
0°-180°	3555.1	100.0



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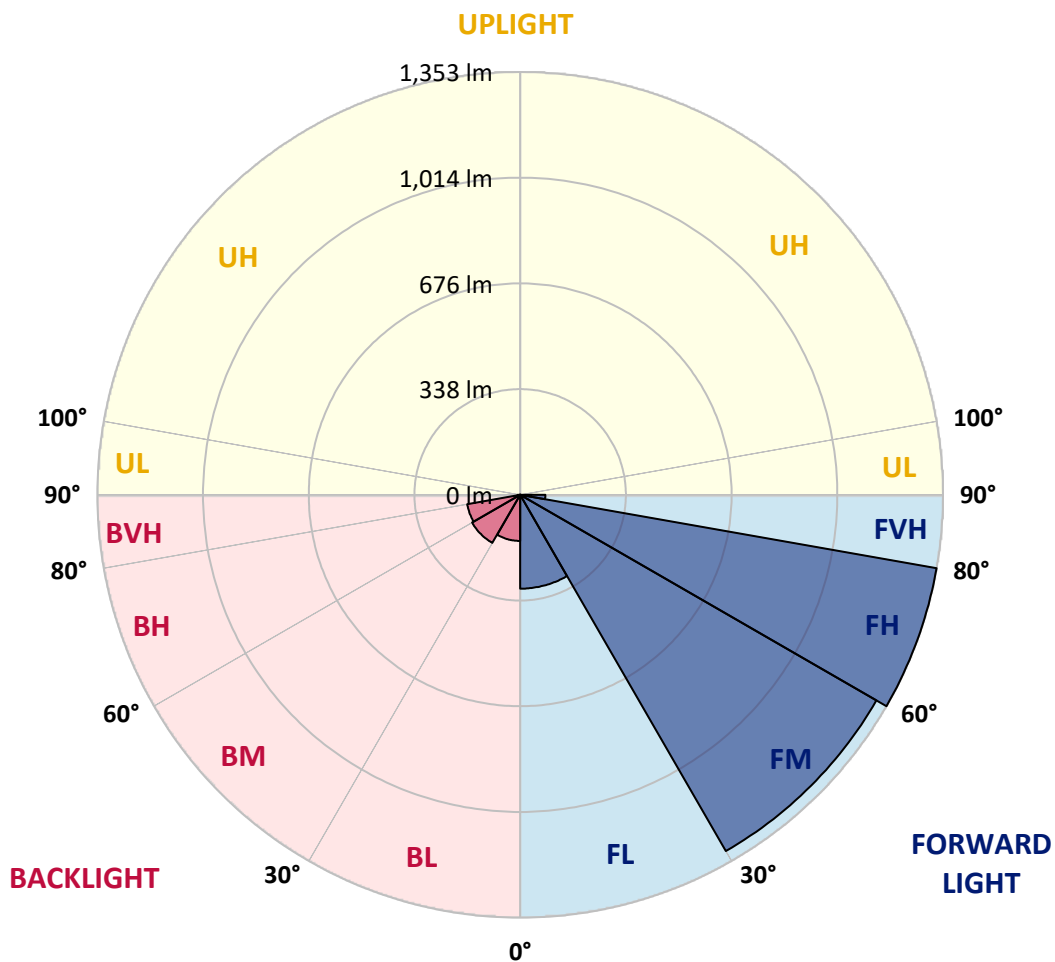
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	300.2	8.4			
FM	(30°-60°)	1315.9	37.0			
FH	(60°-80°)	1352.6	38.0			G1/1800
FVH	(80°-90°)	80.6	2.3			G1/100
BL	(0°-30°)	147.5	4.2	B1/500		
BM	(30°-60°)	177.7	5.0	B0/220		
BH	(60°-80°)	171.9	4.8	B1/500		G1/500
BVH	(80°-90°)	8.6	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°	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9
2.5°	924.4	926.5	925.6	925.1	926.7	924.3	919.3	917.7	915.3	909.7	900.1
5°	889.8	895.9	895.6	900.2	908.0	910.0	907.8	908.1	903.7	896.6	880.6
7.5°	829.8	832.4	833.8	843.9	858.0	869.3	878.9	882.0	880.0	874.0	853.3
10°	768.0	770.1	773.3	785.2	803.0	818.7	836.9	847.3	851.8	850.8	827.8
12.5°	714.9	717.0	721.3	734.7	756.0	775.2	801.7	814.7	825.4	831.7	807.0
15°	667.4	671.8	675.9	691.4	715.3	740.5	770.4	786.9	803.4	817.6	788.6
17.5°	630.3	634.7	637.1	651.2	676.6	707.5	742.6	762.0	782.6	805.9	770.4
20°	608.8	610.9	609.8	617.7	640.6	673.4	714.9	737.4	762.3	795.0	752.2
22.5°	602.8	603.0	599.2	598.3	613.1	640.7	685.4	712.7	743.3	787.7	736.6
25°	617.4	616.9	606.6	598.1	599.7	615.8	656.9	688.7	727.3	786.2	724.5
27.5°	649.8	651.4	636.1	620.3	604.7	604.2	635.2	668.7	714.2	793.2	719.4
30°	695.3	697.9	681.6	661.5	632.2	607.9	626.8	656.9	706.2	807.8	718.5
32.5°	745.2	747.9	735.5	714.4	675.9	631.3	632.7	657.9	705.8	828.3	724.4
35°	798.2	801.3	795.0	777.1	734.3	674.4	655.0	674.6	717.0	859.5	740.0
37.5°	857.5	862.3	864.0	847.0	801.3	731.2	691.6	706.2	742.2	903.0	768.7
40°	942.8	949.5	949.0	924.6	878.1	808.0	748.1	751.8	781.6	961.0	814.5
42.5°	1106.3	1107.7	1064.9	1011.9	962.6	888.7	814.7	811.6	835.8	1034.5	882.0
45°	1314.3	1308.6	1213.5	1110.9	1050.8	981.5	901.4	886.3	904.7	1124.2	966.5
47.5°	1486.9	1473.8	1353.6	1212.1	1144.3	1082.3	1003.3	976.8	987.0	1225.8	1075.7
50°	1546.8	1537.0	1437.4	1296.2	1232.7	1205.2	1128.6	1091.2	1093.9	1347.1	1203.7
52.5°	1533.9	1532.6	1466.1	1351.7	1315.5	1334.4	1306.2	1255.5	1228.8	1481.7	1341.8
55°	1503.5	1506.4	1482.4	1416.3	1410.1	1459.0	1538.2	1500.8	1417.5	1617.6	1484.5
57.5°	1397.9	1405.5	1458.4	1497.5	1562.4	1635.2	1725.1	1714.4	1620.6	1764.4	1654.1
60°	1126.2	1143.7	1285.6	1481.7	1719.2	1946.9	1987.1	1962.4	1830.2	1946.6	1878.3
62.5°	789.1	807.3	976.0	1282.8	1693.5	2299.0	2455.6	2349.0	2131.0	2215.0	2168.3
65°	422.5	431.2	560.0	890.1	1429.7	2371.6	3140.3	2978.0	2607.4	2546.0	2416.5
67.5°	233.0	237.9	287.1	449.4	915.7	2088.5	3576.5	3699.1	3202.8	2766.3	2371.3
69°	210.7	215.2	247.5	340.4	612.7	1726.8	3533.9	3889.3	3463.9	2744.5	2204.4
70°	206.1	210.2	239.2	313.8	496.0	1423.3	3391.2	3840.7	3526.0	2666.3	2058.7
72.5°	185.5	189.9	218.1	281.8	423.8	709.6	2686.3	3247.3	3201.3	2311.9	1561.6
75°	172.9	177.1	224.8	276.0	405.8	449.1	1770.9	2393.3	2353.3	1617.2	842.0
77.5°	74.0	73.7	104.2	233.6	411.8	434.8	951.6	1495.1	1364.1	691.2	241.8
80°	49.5	48.6	49.5	68.7	377.6	437.2	498.5	758.9	573.2	176.2	119.2
82.5°	42.6	41.9	43.4	41.9	132.8	499.1	423.8	403.6	272.5	100.1	59.1
85°	28.7	27.5	37.4	37.6	62.7	443.4	477.4	340.9	220.5	59.4	29.2
87.5°	13.7	13.4	21.8	26.6	36.8	180.1	535.6	349.3	222.4	30.4	13.9
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°	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9
2.5°	897.1	890.1	883.2	875.0	866.4	856.8	852.0	847.2	846.0	844.6	839.8
5°	872.4	862.4	845.3	826.4	806.5	787.1	772.3	763.0	756.0	752.4	746.0
7.5°	840.5	825.9	795.8	763.2	729.7	699.1	672.7	656.0	640.2	632.8	624.4
10°	810.1	788.3	741.5	693.5	645.4	599.2	555.7	525.0	497.7	482.4	471.6
12.5°	784.0	754.1	689.3	624.3	558.3	492.5	427.4	376.3	333.5	311.0	299.5
15°	758.5	722.5	639.7	557.1	472.4	383.0	297.4	239.4	204.0	189.9	185.1
17.5°	735.5	689.3	589.9	489.4	383.8	275.6	199.9	168.0	154.4	149.8	148.2
20°	710.6	655.9	538.2	418.7	291.4	192.7	156.1	142.0	136.5	135.2	134.5
22.5°	686.6	622.9	488.8	343.0	209.3	148.7	134.1	128.3	127.4	128.6	128.6
25°	666.2	593.3	435.3	263.8	153.7	125.2	120.0	118.7	121.9	126.4	127.3
27.5°	650.9	569.1	378.5	194.7	122.4	108.9	108.7	110.9	119.0	127.6	129.3
30°	640.4	546.1	317.7	140.5	102.7	95.8	98.6	103.4	115.2	127.4	130.7
32.5°	635.1	529.1	254.3	108.7	87.9	84.1	88.8	94.6	106.3	117.6	121.9
35°	639.2	516.6	194.6	90.7	77.6	74.7	79.5	85.2	92.0	96.9	100.1
37.5°	654.6	511.6	146.8	81.2	70.6	67.8	71.6	74.9	77.6	79.0	80.5
40°	688.0	516.9	117.6	76.4	66.6	63.2	64.7	65.9	67.7	69.0	69.7
42.5°	737.1	532.9	105.4	74.5	64.6	59.6	59.2	59.8	62.0	64.6	65.1
45°	805.8	561.1	104.6	75.7	63.5	56.7	55.1	55.8	59.2	63.2	63.9
47.5°	893.5	604.0	111.5	79.3	64.4	55.1	52.6	53.4	57.7	63.0	63.9
50°	999.8	663.9	123.0	84.7	68.2	55.5	51.7	52.2	56.7	62.5	63.4
52.5°	1125.4	748.9	135.5	89.8	72.1	57.7	52.4	51.2	55.3	60.5	61.5
55°	1265.0	858.0	148.4	94.5	74.2	60.5	53.8	49.8	52.7	57.0	57.9
57.5°	1436.4	1010.5	170.7	98.9	75.6	62.3	55.1	48.4	49.5	52.6	53.2
60°	1668.4	1226.2	210.0	106.3	78.7	63.0	55.0	47.2	46.2	47.9	48.3
62.5°	1946.4	1460.4	242.8	115.6	83.8	63.5	53.9	46.4	43.4	43.4	43.8
65°	2111.5	1523.1	224.6	123.3	88.1	63.0	52.7	45.5	41.4	39.5	39.7
67.5°	1971.5	1339.5	192.5	124.9	87.9	60.6	50.8	44.0	39.3	36.4	36.2
69°	1796.2	1155.8	178.1	120.7	83.8	57.5	48.4	42.2	37.8	34.7	34.5
70°	1654.8	1043.6	168.6	116.3	79.3	55.3	46.5	40.7	36.6	33.7	33.3
72.5°	1203.2	683.8	144.1	99.9	65.4	46.4	40.2	35.7	32.6	30.9	30.6
75°	601.2	326.1	117.0	81.1	50.1	37.1	33.0	29.9	28.3	28.0	27.8
77.5°	197.5	149.4	83.6	60.5	37.3	29.0	26.6	24.4	24.0	25.1	24.7
80°	108.5	86.9	53.1	40.0	25.4	21.3	21.0	19.7	20.3	22.0	21.6
82.5°	55.3	45.2	32.8	24.0	17.2	15.3	16.7	16.0	16.7	18.2	18.0
85°	27.3	24.7	20.8	14.6	11.3	9.8	11.8	12.4	12.7	13.9	13.9
87.5°	15.8	14.6	11.0	6.9	5.7	5.2	6.9	6.7	7.9	8.6	8.4
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)