

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: P268986

Luminaire Tested: **GLEON-AF-01-LED-E1-SL2-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SL2-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA 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: 3494.1 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

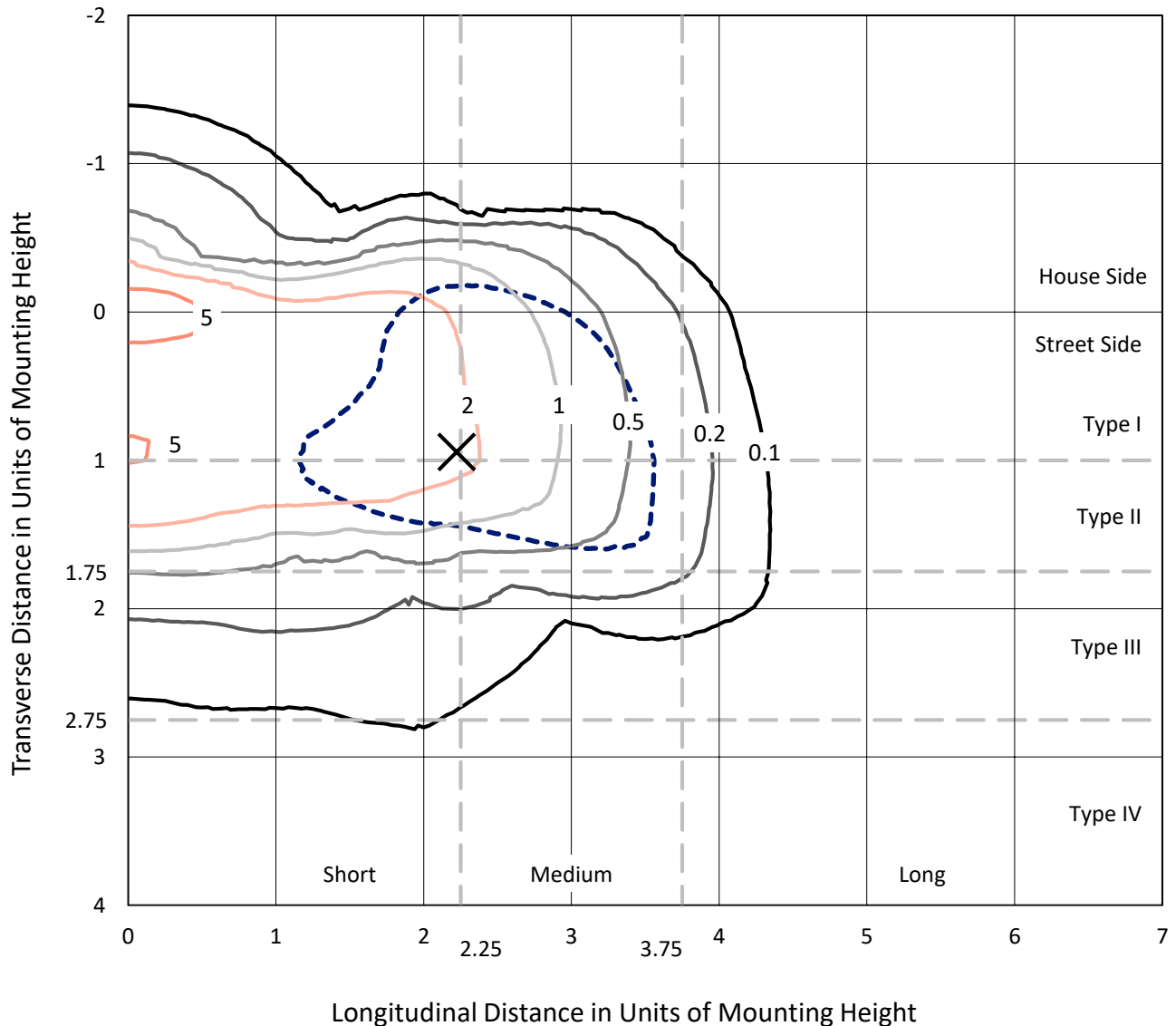
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

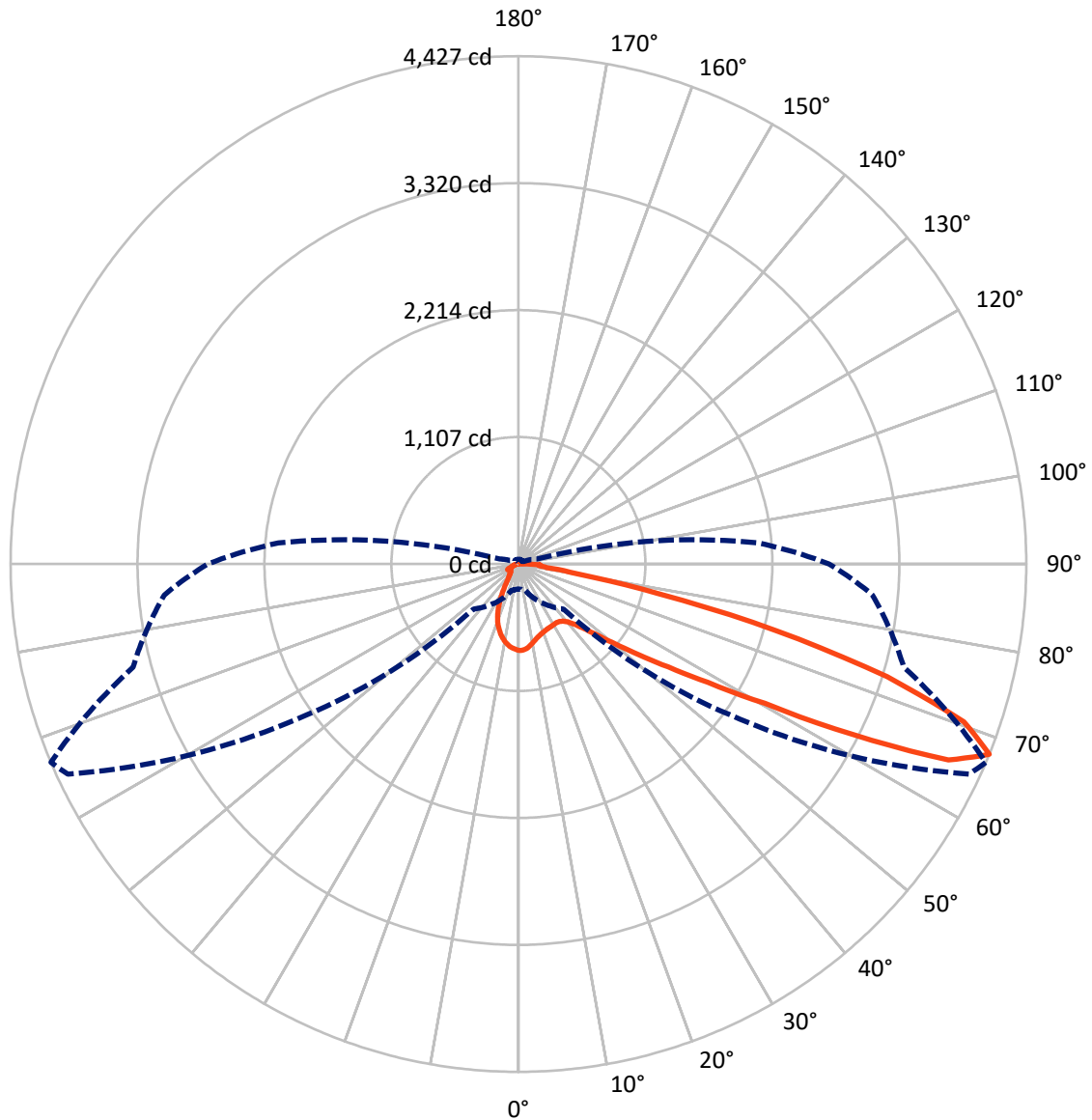
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	578.9	0.0	578.9
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	2915.1	0.0	2915.1
	% Fixture	83.4	0.0	83.4
Total	Lumens	3494.1	0.0	3494.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	1.8
10°-20°	148.8	4.3
20°-30°	201.7	5.8
30°-40°	286.7	8.2
40°-50°	479.7	13.7
50°-60°	758.8	21.7
60°-70°	966.6	27.7
70°-80°	506.3	14.5
80°-90°	81.2	2.3
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°	3494.1	100.0
0°-180°	3494.1	100.0



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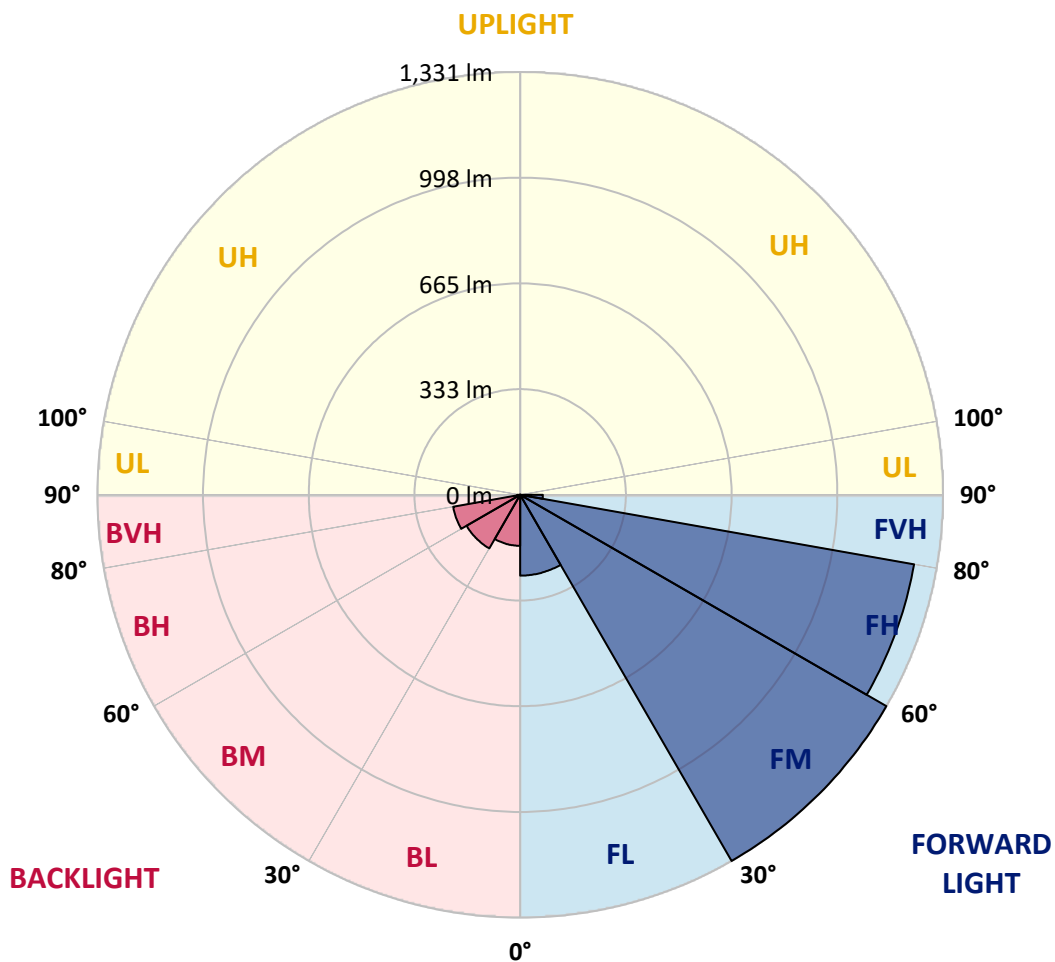
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	254.3	7.3			
FM	(30°-60°)	1330.6	38.1			
FH	(60°-80°)	1258.8	36.0			G1/1800
FVH	(80°-90°)	71.4	2.0			G1/100
BL	(0°-30°)	160.5	4.6	B1/500		
BM	(30°-60°)	194.5	5.6	B0/220		
BH	(60°-80°)	214.1	6.1	B1/500		G1/500
BVH	(80°-90°)	9.8	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	753.7	753.7	753.7	753.7	753.7	753.7	753.7	753.7	753.7	753.7	753.7
2.5°	722.6	723.9	727.6	730.1	740.9	745.6	748.8	752.2	752.6	754.1	752.6
5°	646.8	649.5	656.5	664.3	685.4	701.9	719.4	737.5	740.7	752.5	755.7
7.5°	588.1	587.4	593.2	602.8	624.2	647.1	677.7	713.8	720.8	747.1	759.8
10°	545.2	544.6	550.9	560.7	581.3	602.9	637.3	686.7	696.6	738.6	763.7
12.5°	513.6	513.7	519.8	530.7	551.6	573.5	608.4	660.4	673.2	728.9	768.1
15°	492.5	493.8	498.7	510.3	530.7	552.5	586.9	640.9	655.1	721.1	772.6
17.5°	485.4	487.6	489.3	497.8	515.2	537.0	570.7	626.3	641.5	715.8	776.8
20°	491.9	494.4	491.3	494.2	505.1	524.5	557.9	615.0	630.5	709.8	777.3
22.5°	519.9	522.5	512.8	504.4	503.7	515.4	547.3	605.9	622.0	705.3	777.5
25°	569.4	571.1	554.9	535.2	516.0	512.2	540.1	599.8	616.9	701.2	774.2
27.5°	630.2	631.2	612.7	583.8	545.4	519.8	537.5	596.1	613.9	697.9	768.7
30°	703.8	709.5	684.6	648.0	592.1	542.8	542.5	594.3	610.7	692.0	757.8
32.5°	779.3	781.7	764.5	727.4	655.0	583.1	557.0	595.7	609.8	684.9	744.1
35°	855.8	858.9	847.7	817.9	740.9	642.2	585.3	603.8	615.1	682.5	734.4
37.5°	954.9	959.0	943.5	909.1	845.6	722.2	632.3	624.1	631.5	689.4	731.4
40°	1111.6	1109.6	1064.3	1013.0	959.8	824.9	699.6	658.5	662.9	711.5	740.5
42.5°	1293.9	1289.2	1211.2	1130.4	1085.7	948.9	788.4	718.4	717.4	755.4	772.0
45°	1439.3	1435.5	1365.2	1265.7	1229.9	1090.2	903.3	807.4	801.1	824.9	830.2
47.5°	1518.0	1518.1	1477.7	1396.5	1395.6	1269.8	1051.0	936.4	925.3	936.5	930.9
50°	1490.5	1494.1	1489.7	1463.9	1546.9	1505.1	1243.9	1116.1	1093.7	1104.8	1082.9
52.5°	1357.1	1361.7	1387.3	1426.9	1610.5	1789.6	1527.2	1339.4	1313.5	1309.5	1285.3
55°	1120.6	1126.4	1178.3	1286.2	1557.7	1980.7	1974.0	1624.0	1582.9	1545.4	1535.1
57.5°	772.5	782.0	865.6	1025.5	1386.5	2038.3	2506.4	2029.8	1946.0	1815.5	1817.8
60°	435.4	446.5	545.2	690.4	1041.2	1975.6	2911.2	2644.4	2467.6	2131.6	2149.6
62.5°	276.9	288.7	363.8	479.6	624.9	1637.9	3077.2	3498.8	3274.3	2521.4	2538.9
65°	224.1	229.3	264.7	396.0	453.6	986.8	2951.2	4202.7	4119.0	3016.0	2934.0
67.5°	218.8	220.5	238.8	332.4	435.0	554.7	2354.1	4334.3	4427.1	3478.0	3098.6
70°	216.2	222.3	269.1	317.2	416.6	467.7	1414.7	3973.6	4120.2	3598.8	2879.5
72.5°	104.9	104.7	135.5	286.9	469.4	485.3	726.8	3215.0	3362.1	3117.8	2366.2
75°	84.6	77.3	73.9	105.1	451.3	501.1	463.2	2212.3	2318.7	2090.4	1454.5
77.5°	80.3	71.7	65.7	65.8	190.7	531.3	392.3	1224.4	1255.4	944.2	398.6
80°	66.6	58.6	54.3	61.2	92.3	506.0	424.2	554.2	508.5	231.9	132.7
82.5°	46.2	42.0	40.9	51.4	73.9	360.6	493.3	297.8	249.6	116.2	81.8
85°	29.5	25.2	27.8	37.4	57.5	166.5	508.1	232.1	184.5	73.8	46.2
87.5°	13.7	11.0	13.7	20.8	37.5	57.4	483.5	260.7	190.0	38.9	29.1
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°	753.7	753.7	753.7	753.7	753.7	753.7	753.7	753.7	753.7	753.7	753.7
2.5°	753.9	750.8	748.2	743.3	738.0	732.7	728.2	722.2	720.6	719.1	721.5
5°	756.5	753.1	743.6	728.9	712.4	697.2	681.9	668.7	660.7	656.1	658.7
7.5°	760.1	755.4	735.7	708.6	679.1	652.2	624.4	602.3	585.9	578.1	580.3
10°	763.3	754.3	722.2	681.5	638.3	598.5	554.7	518.4	491.6	477.4	481.0
12.5°	764.6	750.4	703.6	647.7	588.6	530.0	465.6	411.5	372.8	358.8	355.8
15°	766.1	746.0	682.8	609.3	528.5	445.6	355.3	290.5	258.4	251.3	249.9
17.5°	766.4	738.1	659.4	567.5	458.0	345.0	242.9	201.8	201.9	213.3	214.7
20°	762.8	726.5	631.0	515.6	373.5	238.6	166.7	159.7	185.7	214.2	217.6
22.5°	754.5	711.3	598.8	455.3	276.9	157.2	129.0	136.8	170.4	205.3	209.1
25°	744.1	692.7	560.7	385.2	183.3	112.4	108.2	117.7	140.4	163.8	165.9
27.5°	729.8	670.7	518.0	304.9	119.0	92.5	95.3	101.7	111.0	121.4	122.3
30°	711.3	644.3	472.2	222.3	89.9	83.3	87.1	90.5	94.6	100.4	101.0
32.5°	690.1	618.9	425.3	153.5	79.8	78.4	81.4	83.3	86.3	89.9	90.3
35°	672.3	594.8	376.7	108.5	75.5	74.7	76.8	77.6	80.5	84.4	84.8
37.5°	662.2	575.2	326.8	87.6	72.6	71.5	72.8	72.8	76.8	82.7	83.5
40°	662.9	564.2	276.6	79.1	70.2	68.7	68.9	68.9	74.3	80.7	81.1
42.5°	681.6	567.1	232.1	75.7	68.2	66.7	65.8	66.4	70.8	75.0	75.3
45°	725.7	586.6	190.4	73.8	66.4	65.8	63.9	63.8	65.4	67.4	67.4
47.5°	798.1	625.0	162.1	72.4	64.8	64.6	62.4	60.1	59.9	60.6	60.6
50°	915.8	691.2	143.2	70.8	63.8	62.4	59.7	56.4	55.2	55.7	55.7
52.5°	1092.2	809.2	136.0	68.7	61.5	59.3	56.4	52.9	51.8	52.0	52.0
55°	1323.7	990.4	134.9	66.4	59.1	55.4	53.1	50.5	49.2	49.6	49.6
57.5°	1606.3	1241.1	153.3	62.5	55.9	51.7	50.3	48.6	47.7	48.2	48.1
60°	1950.1	1569.2	227.5	58.6	52.6	48.2	48.2	46.9	46.2	46.7	46.5
62.5°	2346.2	1946.0	319.7	55.7	49.0	45.5	46.2	45.5	44.7	45.2	44.9
65°	2697.3	2191.5	299.4	53.4	45.6	42.8	44.0	43.7	43.3	43.6	43.4
67.5°	2707.4	2100.5	168.2	51.1	42.4	40.3	42.0	42.0	41.5	42.0	41.7
70°	2416.3	1773.8	94.9	46.5	38.9	37.2	39.6	39.4	39.2	39.9	39.6
72.5°	1935.8	1287.1	69.3	41.1	35.6	34.0	36.7	36.6	36.6	37.5	37.0
75°	1114.0	662.3	55.3	35.2	31.9	30.6	33.1	33.2	33.5	34.9	34.0
77.5°	317.6	206.4	45.2	29.9	27.4	26.9	29.3	29.6	29.9	31.4	30.0
80°	118.0	95.1	37.2	25.1	22.4	22.5	24.9	25.3	25.5	27.0	25.3
82.5°	75.3	62.7	30.2	19.4	17.5	17.3	20.1	20.8	20.8	21.0	20.0
85°	43.9	37.5	22.7	14.0	12.3	11.9	15.0	16.2	15.7	15.4	14.6
87.5°	29.5	25.8	14.0	7.7	6.6	6.4	8.9	9.6	9.3	8.9	8.3
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)