

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: P193609

Luminaire Tested: **GLEON-AF-01-LED-E1-SL2-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193609
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-SL2-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 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: 3282 lumens
Efficiency: N/A
Efficacy: 96.5 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

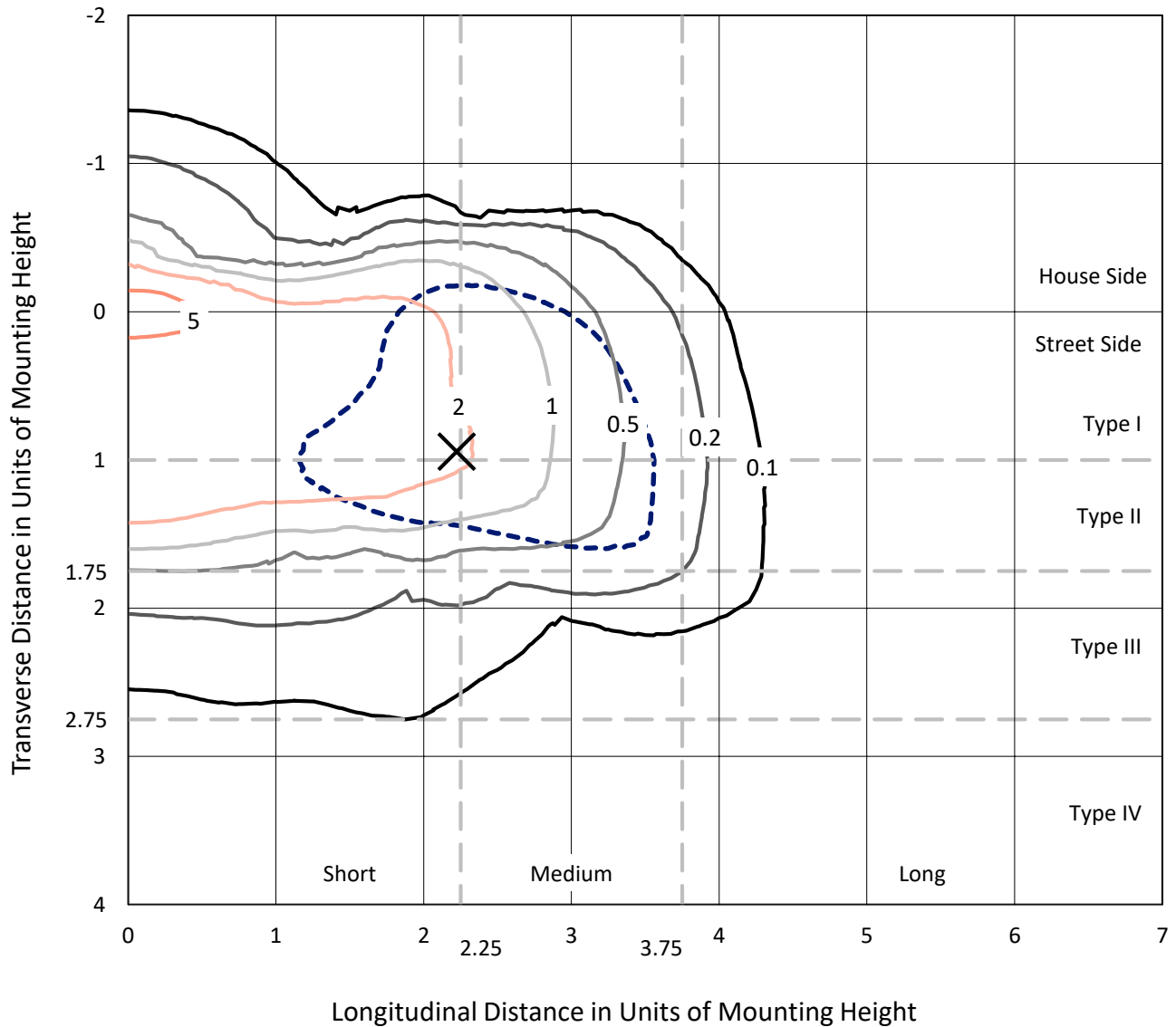
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

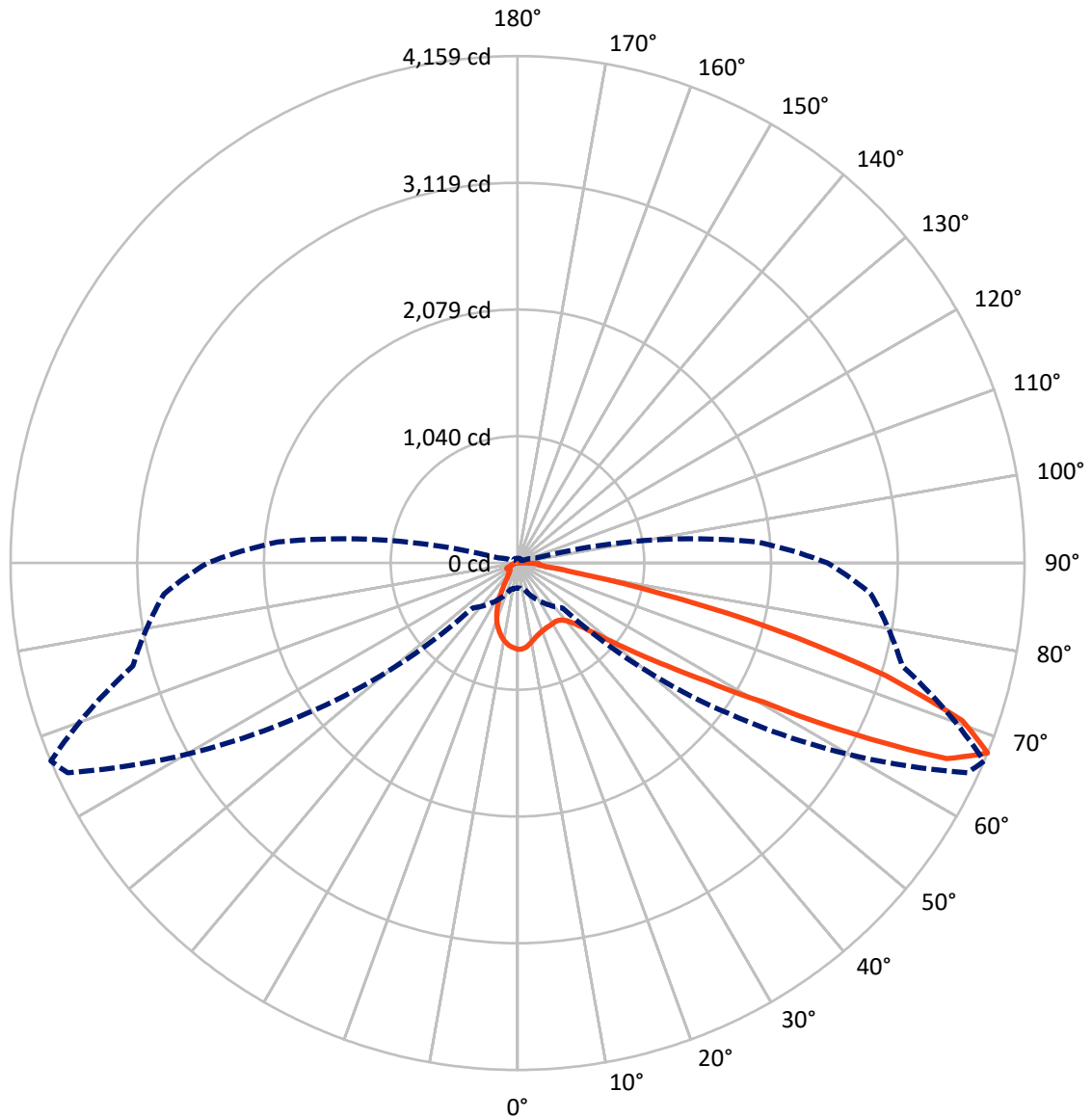


Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - Semi-Cutoff

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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	543.8	0.0	543.8
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	2738.2	0.0	2738.2
	% Fixture	83.4	0.0	83.4
Total	Lumens	3282.0	0.0	3282.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	1.8
10°-20°	139.7	4.3
20°-30°	189.4	5.8
30°-40°	269.3	8.2
40°-50°	450.5	13.7
50°-60°	712.7	21.7
60°-70°	908.0	27.7
70°-80°	475.6	14.5
80°-90°	76.3	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°	3282.0	100.0
0°-180°	3282.0	100.0



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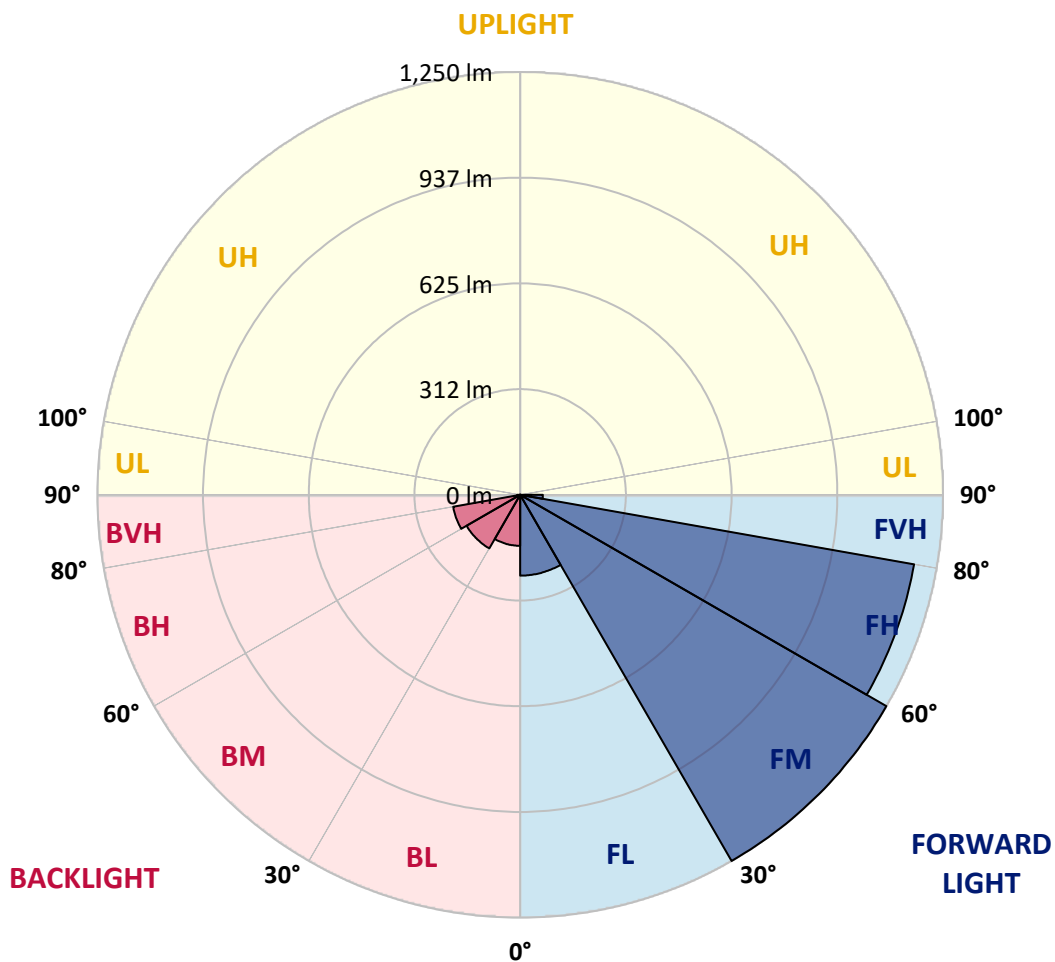
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	238.8	7.3			
FM	(30°-60°)	1249.9	38.1			
FH	(60°-80°)	1182.4	36.0			G1/1800
FVH	(80°-90°)	67.1	2.0			G1/100
BL	(0°-30°)	150.7	4.6	B1/500		
BM	(30°-60°)	182.7	5.6	B0/220		
BH	(60°-80°)	201.1	6.1	B1/500		G1/500
BVH	(80°-90°)	9.2	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°	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9
2.5°	678.8	679.9	683.5	685.7	695.9	700.3	703.4	706.5	706.9	708.4	706.9
5°	607.6	610.0	616.6	624.1	643.8	659.4	675.7	692.7	695.8	706.8	709.9
7.5°	552.4	551.7	557.2	566.1	586.4	607.9	636.5	670.4	677.0	701.8	713.7
10°	512.1	511.6	517.4	526.7	545.9	566.3	598.7	645.0	654.3	693.8	717.5
12.5°	482.3	482.5	488.3	498.5	518.1	538.6	571.5	620.4	632.3	684.6	721.4
15°	462.6	463.9	468.5	479.4	498.5	519.0	551.3	601.9	615.3	677.3	725.7
17.5°	455.9	458.0	459.6	467.6	483.9	504.5	536.0	588.3	602.6	672.3	729.6
20°	462.1	464.5	461.4	464.2	474.5	492.7	524.1	577.6	592.2	666.6	730.1
22.5°	488.5	490.7	481.7	473.7	473.1	484.1	514.2	569.2	584.3	662.4	730.3
25°	534.9	536.4	521.1	502.7	484.7	481.0	507.2	563.4	579.4	658.7	727.2
27.5°	591.9	593.0	575.5	548.3	512.2	488.3	504.8	560.0	576.7	655.5	722.0
30°	661.1	666.5	643.0	608.7	556.1	509.8	509.7	558.2	573.6	650.0	711.8
32.5°	732.0	734.3	718.1	683.3	615.2	547.7	523.3	559.5	572.8	643.3	698.9
35°	803.9	806.8	796.3	768.3	695.9	603.2	549.8	567.1	577.8	641.1	689.8
37.5°	897.0	900.8	886.3	853.9	794.2	678.5	594.0	586.2	593.2	647.6	687.0
40°	1044.1	1042.3	999.7	951.5	901.7	774.8	657.1	618.6	622.6	668.4	695.5
42.5°	1215.3	1210.9	1137.6	1061.9	1019.8	891.3	740.6	674.7	673.9	709.5	725.1
45°	1351.9	1348.3	1282.3	1188.9	1155.3	1024.0	848.6	758.4	752.4	774.8	779.8
47.5°	1425.9	1426.0	1388.0	1311.8	1311.0	1192.7	987.3	879.5	869.1	879.6	874.3
50°	1400.0	1403.4	1399.3	1375.1	1453.1	1413.7	1168.4	1048.3	1027.4	1037.8	1017.2
52.5°	1274.7	1279.1	1303.0	1340.3	1512.8	1680.9	1434.5	1258.0	1233.8	1230.0	1207.2
55°	1052.7	1058.0	1106.9	1208.0	1463.1	1860.4	1854.3	1525.4	1486.7	1451.6	1441.9
57.5°	725.6	734.5	813.1	963.3	1302.4	1914.7	2354.2	1906.6	1827.9	1705.2	1707.5
60°	409.0	419.3	512.1	648.5	978.0	1855.7	2734.6	2483.9	2317.8	2002.2	2019.0
62.5°	260.1	271.3	341.7	450.6	586.9	1538.5	2890.4	3286.5	3075.6	2368.3	2384.8
65°	210.6	215.4	248.6	371.9	426.1	926.9	2772.1	3947.6	3869.0	2833.0	2755.9
67.5°	205.5	207.2	224.3	312.2	408.7	521.0	2211.2	4071.3	4158.5	3266.9	2910.5
70°	203.1	208.8	252.8	298.0	391.3	439.4	1328.8	3732.4	3870.1	3380.3	2704.8
72.5°	98.6	98.2	127.2	269.5	440.9	455.8	682.7	3019.9	3158.1	2928.6	2222.6
75°	79.5	72.7	69.4	98.7	423.9	470.7	435.0	2078.0	2178.0	1963.5	1366.3
77.5°	75.4	67.3	61.7	61.8	179.2	499.1	368.5	1150.1	1179.2	886.9	374.4
80°	62.5	55.0	51.0	57.5	86.8	475.3	398.5	520.5	477.6	217.8	124.6
82.5°	43.4	39.5	38.4	48.2	69.4	338.7	463.4	279.7	234.5	109.1	76.9
85°	27.7	23.6	26.2	35.1	54.1	156.3	477.3	218.0	173.3	69.3	43.4
87.5°	12.8	10.4	12.9	19.4	35.3	53.9	454.1	244.9	178.5	36.6	27.4
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°	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9
2.5°	708.2	705.2	702.7	698.2	693.2	688.3	684.0	678.5	676.8	675.4	677.7
5°	710.5	707.4	698.5	684.6	669.2	654.8	640.4	628.1	620.5	616.3	618.7
7.5°	713.9	709.5	691.1	665.5	637.8	612.6	586.5	565.7	550.3	543.0	545.1
10°	717.0	708.6	678.5	640.1	599.6	562.1	521.0	487.0	461.7	448.5	451.7
12.5°	718.3	704.8	660.8	608.4	552.9	497.8	437.3	386.5	350.2	337.0	334.2
15°	719.6	700.6	641.4	572.3	496.4	418.5	333.7	272.9	242.8	236.1	234.7
17.5°	719.9	693.4	619.4	533.1	430.2	324.2	228.2	189.5	189.7	200.4	201.7
20°	716.5	682.5	592.7	484.4	350.9	224.2	156.7	150.0	174.5	201.2	204.4
22.5°	708.7	668.1	562.4	427.6	260.1	147.6	121.2	128.5	160.1	192.8	196.5
25°	698.9	650.6	526.7	361.7	172.2	105.5	101.6	110.5	131.9	153.8	155.9
27.5°	685.4	629.9	486.5	286.3	111.8	86.9	89.5	95.5	104.2	113.9	114.9
30°	668.1	605.1	443.6	208.8	84.5	78.2	81.9	85.1	88.9	94.4	94.8
32.5°	648.2	581.4	399.6	144.2	74.9	73.6	76.6	78.2	81.1	84.5	84.8
35°	631.5	558.7	354.0	102.0	70.9	70.2	72.2	72.8	75.6	79.3	79.6
37.5°	622.0	540.2	306.9	82.2	68.1	67.2	68.3	68.3	72.2	77.7	78.5
40°	622.6	530.0	259.8	74.3	65.9	64.6	64.7	64.7	69.8	75.7	76.2
42.5°	640.3	532.6	218.0	71.2	64.1	62.6	61.8	62.3	66.5	70.4	70.7
45°	681.7	550.9	178.8	69.3	62.3	61.8	60.0	59.9	61.5	63.3	63.3
47.5°	749.7	587.0	152.3	68.0	60.9	60.7	58.6	56.5	56.3	57.0	57.0
50°	860.2	649.2	134.5	66.5	59.9	58.6	56.2	52.9	51.8	52.3	52.3
52.5°	1025.9	760.0	127.7	64.6	57.8	55.7	52.9	49.7	48.7	48.9	48.9
55°	1243.3	930.3	126.7	62.3	55.5	52.1	49.8	47.4	46.3	46.6	46.6
57.5°	1508.9	1165.8	144.0	58.8	52.4	48.6	47.3	45.6	44.8	45.3	45.2
60°	1831.8	1473.9	213.6	55.0	49.4	45.3	45.3	44.0	43.4	43.9	43.7
62.5°	2203.7	1827.9	300.4	52.3	46.1	42.7	43.4	42.7	42.1	42.4	42.2
65°	2533.6	2058.5	281.3	50.2	42.9	40.3	41.4	41.1	40.6	40.9	40.8
67.5°	2543.1	1973.1	158.0	47.9	39.8	37.9	39.5	39.3	39.0	39.3	39.2
70°	2269.6	1666.1	89.0	43.7	36.6	35.0	37.2	37.1	36.7	37.4	37.2
72.5°	1818.4	1209.0	65.1	38.5	33.3	31.9	34.5	34.3	34.3	35.3	34.8
75°	1046.3	622.1	52.0	33.0	29.9	28.8	31.1	31.2	31.6	32.9	31.9
77.5°	298.3	193.9	42.4	28.0	25.7	25.2	27.5	27.8	28.0	29.5	28.2
80°	110.9	89.3	35.0	23.5	21.0	21.2	23.3	23.8	24.0	25.4	23.8
82.5°	70.7	58.9	28.3	18.1	16.5	16.3	18.9	19.6	19.6	19.7	18.8
85°	41.3	35.3	21.4	13.1	11.7	11.2	14.1	15.2	14.7	14.4	13.8
87.5°	27.7	24.3	13.1	7.3	6.3	6.0	8.3	9.1	8.7	8.3	7.8
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)