

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: P193569

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193569
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2775 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B0 - 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

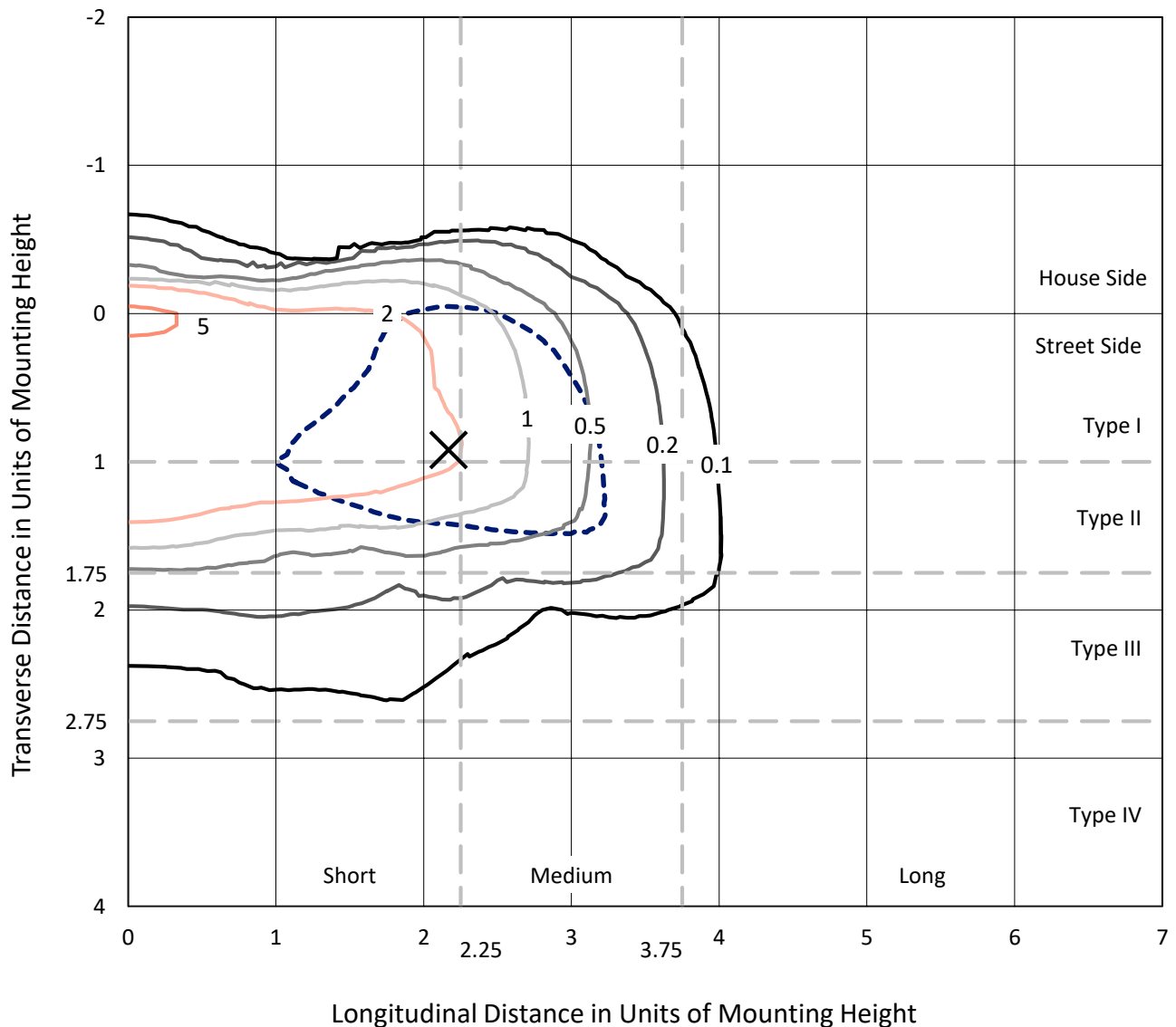


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

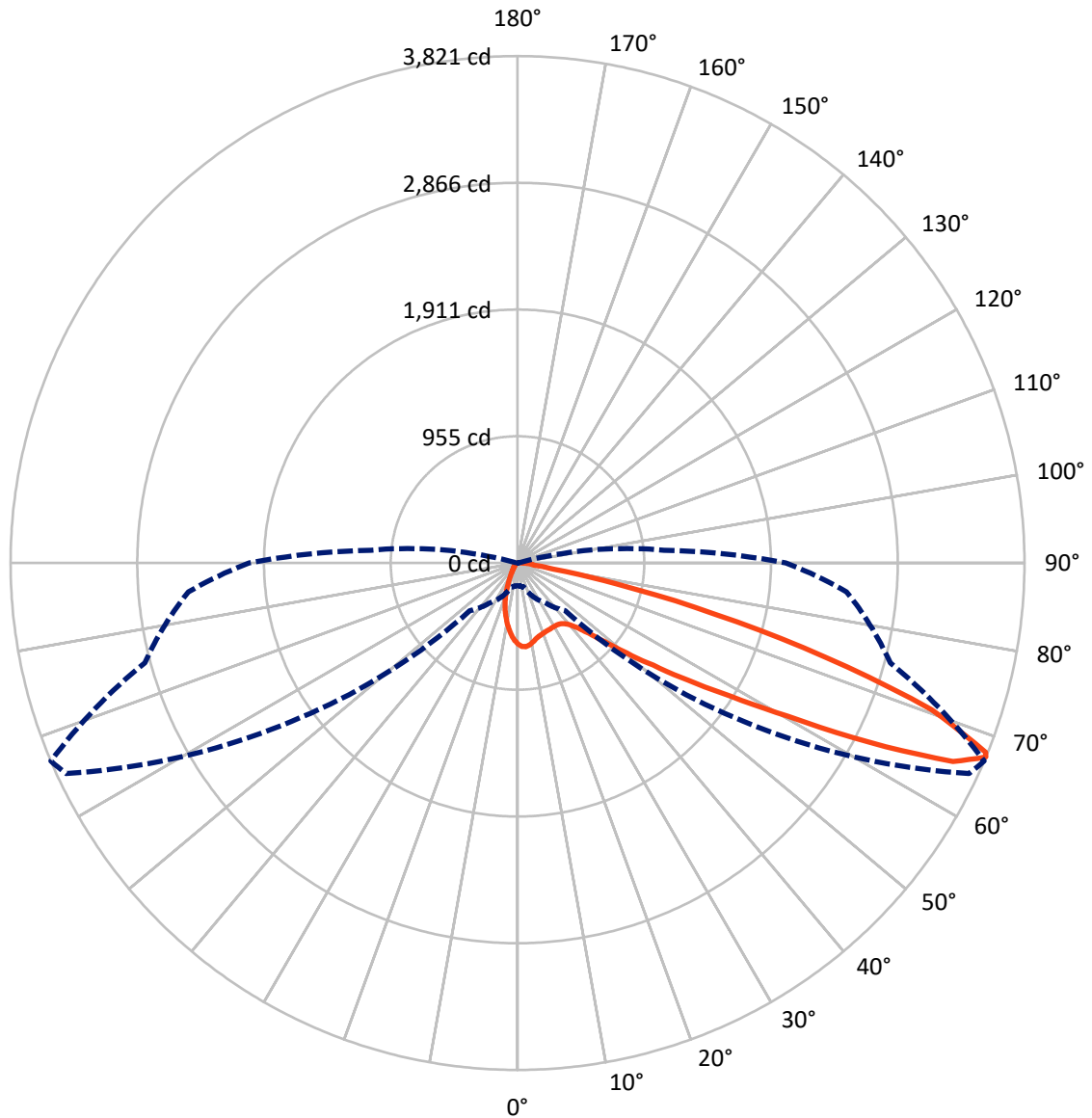


Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	288.1	0.0	288.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	2486.9	0.0	2486.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	2775.0	0.0	2775.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.8	1.8
10°-20°	106.0	3.8
20°-30°	154.1	5.6
30°-40°	240.4	8.7
40°-50°	425.8	15.3
50°-60°	673.9	24.3
60°-70°	771.8	27.8
70°-80°	320.1	11.5
80°-90°	33.1	1.2
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°	2775.0	100.0
0°-180°	2775.0	100.0



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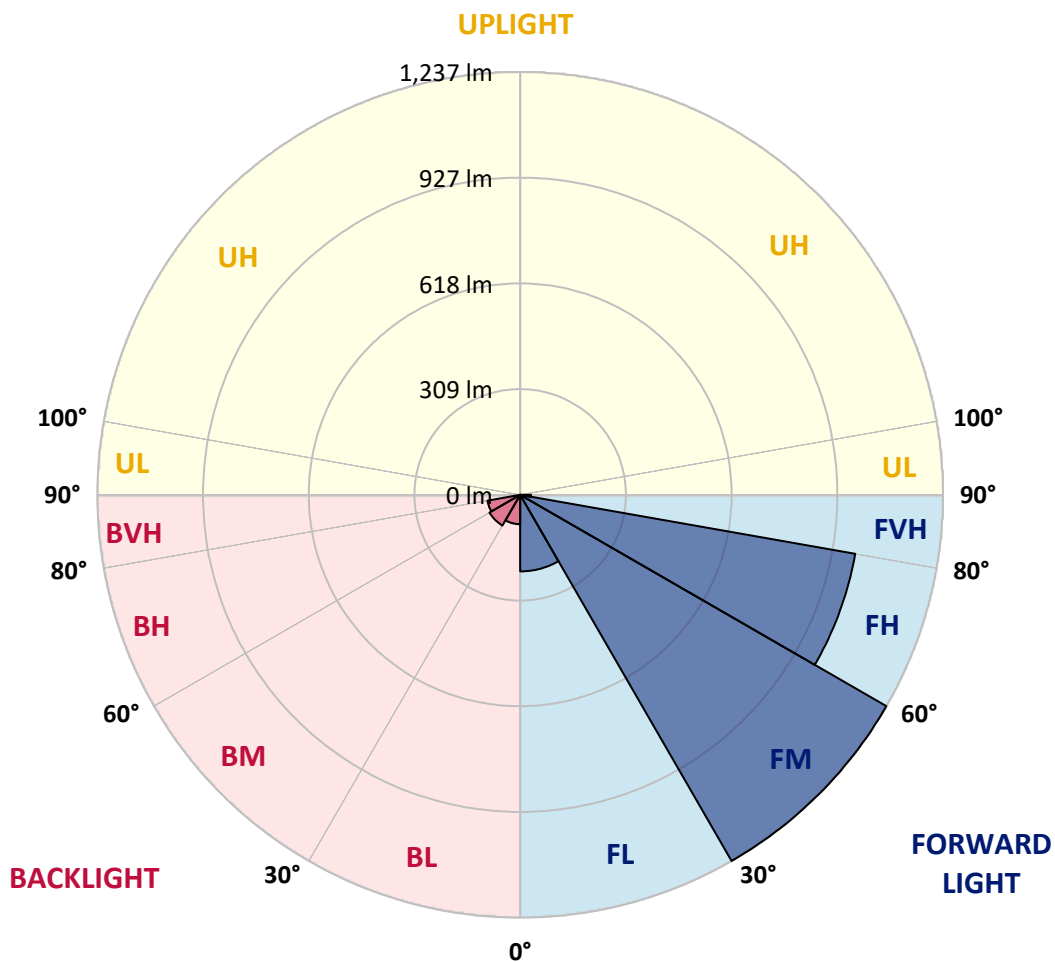
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	223.9	8.1			
FM (30°-60°)	1236.5	44.6			
FH (60°-80°)	994.8	35.9			G1/1800
FVH (80°-90°)	31.6	1.1			G1/100
BL (0°-30°)	86.0	3.1	B0/110		
BM (30°-60°)	103.5	3.7	B0/220		
BH (60°-80°)	97.1	3.5	B0/110		G0/110
BVH (80°-90°)	1.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0
2.5°	632.7	634.0	633.8	634.8	637.1	637.2	635.0	630.6	629.6	624.0	614.1
5°	583.5	587.2	589.5	598.7	609.1	621.5	630.9	634.3	633.8	629.8	614.9
7.5°	527.3	531.1	533.7	544.5	558.3	579.6	604.1	624.1	625.9	630.3	614.3
10°	489.9	490.6	494.2	504.5	518.9	540.8	569.9	605.0	610.4	626.4	612.6
12.5°	459.2	459.7	464.4	475.5	490.9	512.9	543.5	584.2	592.4	621.5	612.3
15°	437.3	439.1	443.3	455.0	471.3	493.2	524.6	568.8	578.6	619.8	615.2
17.5°	430.1	432.0	433.3	441.7	456.6	478.0	510.2	558.7	569.9	620.7	620.9
20°	437.7	439.1	436.2	438.3	447.5	466.6	498.0	550.2	563.4	621.9	628.2
22.5°	466.0	466.6	458.7	449.5	447.9	458.4	488.5	543.4	557.6	624.9	636.8
25°	514.6	513.4	500.5	480.6	461.8	456.9	482.8	539.2	554.7	628.2	645.7
27.5°	573.1	574.8	557.0	528.0	492.2	466.6	482.0	537.4	553.4	630.4	653.4
30°	644.4	646.6	626.2	589.8	538.5	490.6	489.5	537.0	552.6	629.0	654.1
32.5°	717.0	719.8	703.8	666.2	600.3	530.7	506.3	540.6	554.2	624.0	650.4
35°	793.1	797.0	786.3	754.1	684.2	588.7	535.9	551.5	561.8	623.5	646.6
37.5°	898.2	901.7	881.6	847.5	785.7	666.4	583.5	571.8	579.8	631.3	647.6
40°	1055.0	1054.5	1002.7	950.4	897.2	765.1	650.4	608.8	612.8	654.7	659.6
42.5°	1225.9	1225.1	1148.6	1069.1	1021.0	886.7	738.2	672.5	669.8	697.9	690.7
45°	1357.7	1357.5	1295.0	1205.5	1170.1	1026.2	851.9	761.2	757.0	768.2	748.0
47.5°	1413.8	1414.8	1383.4	1320.4	1335.3	1214.9	995.1	889.7	883.4	878.9	848.1
50°	1370.1	1372.1	1374.7	1362.4	1456.6	1468.5	1187.2	1070.9	1067.8	1047.6	999.5
52.5°	1227.4	1237.3	1267.7	1306.7	1498.7	1712.0	1488.5	1295.8	1279.3	1257.8	1204.9
55°	986.9	997.7	1055.5	1150.2	1436.0	1871.9	1910.6	1585.9	1558.4	1494.1	1417.7
57.5°	653.1	669.9	753.8	874.2	1254.1	1897.6	2331.7	1988.4	1892.6	1716.7	1630.6
60°	359.8	376.0	467.0	576.1	905.8	1770.4	2615.0	2512.5	2343.2	1965.5	1889.1
62.5°	221.6	230.3	297.5	399.0	543.2	1397.3	2673.6	3171.1	2975.1	2285.8	2201.3
65°	176.4	180.1	213.0	326.1	389.4	831.1	2484.4	3673.2	3607.8	2673.6	2480.8
67°	171.2	172.7	188.2	280.0	367.1	509.5	2081.3	3755.0	3821.3	2908.3	2489.6
67.5°	172.4	174.0	188.7	267.2	366.4	468.3	1942.5	3722.8	3806.6	2926.9	2450.9
70°	166.2	171.2	216.1	267.1	348.5	389.1	1163.3	3225.5	3312.8	2719.6	2079.6
72.5°	58.9	59.2	93.4	216.1	378.9	393.3	584.2	2364.6	2429.2	2080.4	1499.3
75°	35.0	29.8	31.1	61.5	362.1	382.0	337.0	1511.0	1535.1	1192.1	759.3
77.5°	24.1	21.0	21.7	27.2	137.9	376.6	267.7	787.9	762.2	418.1	161.7
80°	13.8	12.1	12.9	23.8	50.2	351.4	252.5	319.5	272.4	70.9	44.7
82.5°	7.3	6.2	7.4	19.6	35.0	219.0	253.0	154.4	122.4	24.0	30.4
85°	2.6	2.1	3.6	13.4	23.3	67.2	234.5	129.8	102.0	11.7	23.1
87.5°	0.5	0.5	1.5	5.5	9.4	20.6	138.7	77.0	51.6	7.0	15.9
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°	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0
2.5°	610.0	603.1	593.7	582.2	568.6	556.6	547.7	538.5	536.6	533.3	532.8
5°	606.0	594.0	570.7	544.0	515.5	489.8	468.9	450.3	442.0	434.9	434.1
7.5°	600.0	582.0	542.4	499.3	454.8	414.4	380.0	355.8	333.4	322.7	321.1
10°	593.1	567.3	510.5	450.8	389.3	332.1	281.1	238.4	212.5	197.1	195.2
12.5°	586.6	552.9	478.0	400.4	318.7	242.3	176.8	136.0	108.8	97.8	96.5
15°	583.5	541.3	447.5	349.0	244.9	154.3	96.6	74.8	65.9	63.3	63.1
17.5°	583.2	531.4	417.8	295.7	171.6	89.7	63.0	57.5	55.7	55.0	55.0
20°	583.0	522.0	388.0	240.5	108.9	59.7	52.4	51.1	49.9	49.0	49.0
22.5°	584.8	513.6	356.9	184.2	68.6	48.4	46.1	44.8	43.2	42.1	41.9
25°	586.6	507.1	325.2	131.1	49.7	42.1	39.8	38.0	35.8	34.3	34.2
27.5°	586.9	499.0	291.2	87.7	41.6	36.7	33.8	31.1	28.5	27.0	26.9
30°	582.0	485.4	253.5	59.2	36.7	31.9	28.0	25.1	22.7	21.5	21.5
32.5°	572.5	468.6	212.0	44.7	32.7	27.4	23.1	20.4	18.8	18.3	18.1
35°	563.9	450.5	169.5	37.9	29.3	23.1	18.9	17.2	16.2	16.0	15.9
37.5°	558.9	435.9	129.5	34.3	26.1	19.4	16.0	14.7	14.2	13.9	14.1
40°	562.8	423.7	95.7	31.4	22.8	16.2	13.6	12.9	12.5	12.3	12.3
42.5°	579.8	421.6	71.1	28.8	19.7	13.4	11.8	11.3	11.0	10.8	11.0
45°	624.5	434.6	55.2	26.4	16.7	11.3	10.0	9.9	9.7	9.7	9.7
47.5°	691.6	461.3	46.0	23.6	13.9	9.7	8.7	8.6	8.4	8.6	8.6
50°	805.4	510.2	41.1	20.9	11.5	8.3	7.4	7.4	7.4	7.4	7.6
52.5°	978.4	606.3	37.9	18.1	9.4	7.0	6.3	6.3	6.5	6.5	6.6
55°	1171.2	733.9	35.0	15.4	7.9	5.8	5.2	5.3	5.5	5.7	5.7
57.5°	1380.3	875.2	32.5	12.6	6.8	4.7	4.4	4.5	4.7	5.0	5.0
60°	1632.7	1028.1	29.0	9.9	5.7	3.7	3.4	3.7	4.2	4.5	4.7
62.5°	1909.8	1176.1	24.4	7.8	4.7	2.9	2.8	3.4	4.0	4.4	4.5
65°	2099.2	1222.5	18.8	6.3	3.6	2.1	2.3	3.1	3.9	4.4	4.4
67°	2022.4	1108.4	15.4	5.3	2.9	1.6	2.1	3.1	3.9	4.2	4.4
67.5°	1969.2	1063.7	14.7	5.2	2.8	1.6	2.1	3.1	3.9	4.4	4.4
70°	1602.2	799.1	12.3	3.9	2.3	1.5	1.8	2.9	3.7	4.2	4.2
72.5°	1113.3	492.7	11.0	2.8	1.9	1.3	1.6	2.8	3.6	4.0	4.2
75°	529.3	178.4	9.4	2.1	1.8	1.1	1.5	2.8	3.6	4.0	4.0
77.5°	108.0	41.4	7.6	1.8	1.5	1.1	1.3	2.6	3.4	3.9	3.9
80°	35.4	16.0	5.7	1.6	1.5	1.1	1.3	2.4	3.4	3.7	3.9
82.5°	25.6	8.1	3.7	1.6	1.5	1.1	1.1	2.4	3.2	3.7	3.7
85°	19.6	5.7	2.4	1.6	1.5	1.1	1.1	2.3	3.1	3.6	3.6
87.5°	12.9	2.3	1.9	1.6	1.5	1.1	1.1	2.3	2.9	3.4	3.6
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)