

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P628877

Luminaire Tested: GWS-SA1A-740-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-740-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1783.6 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

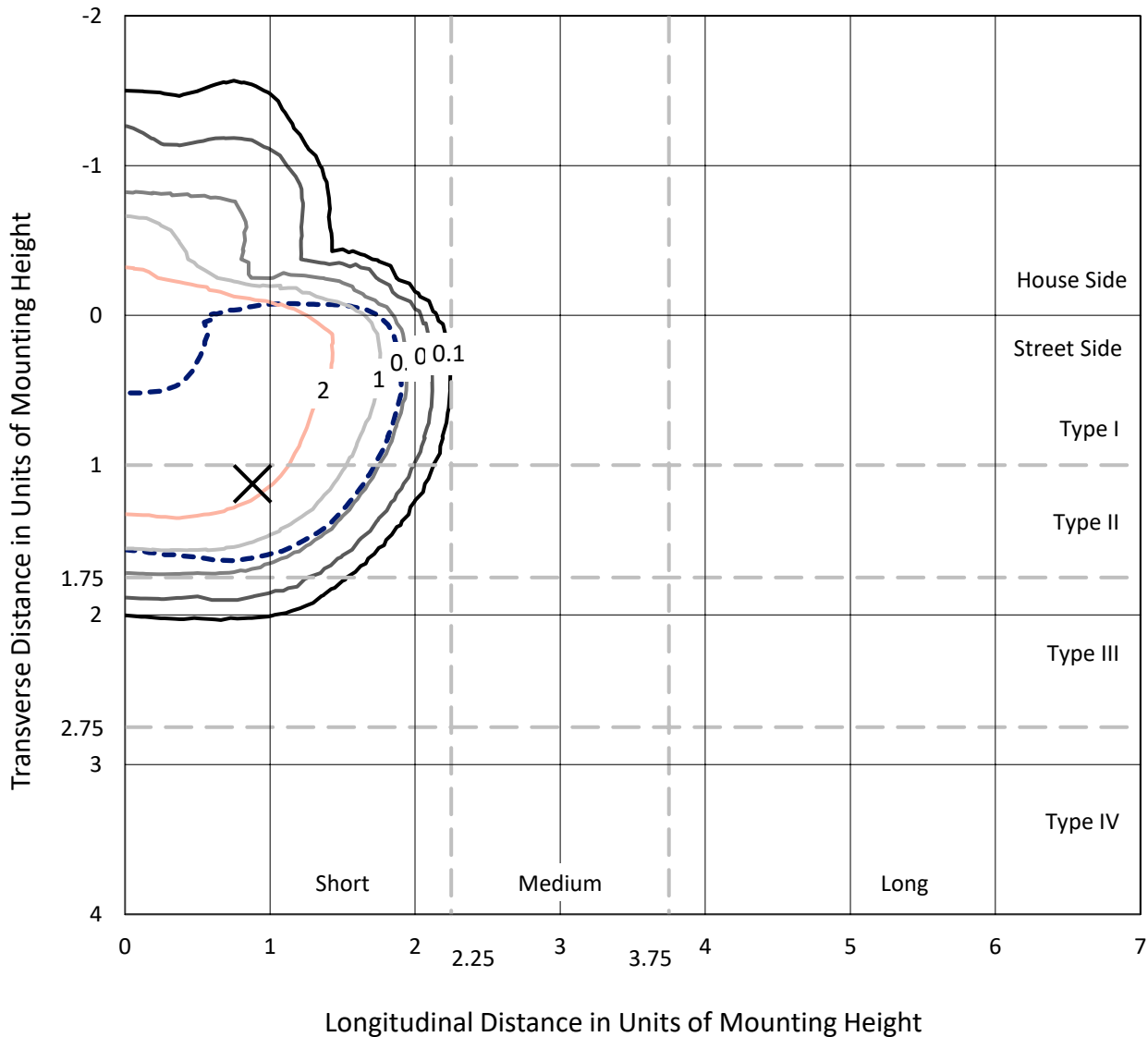
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

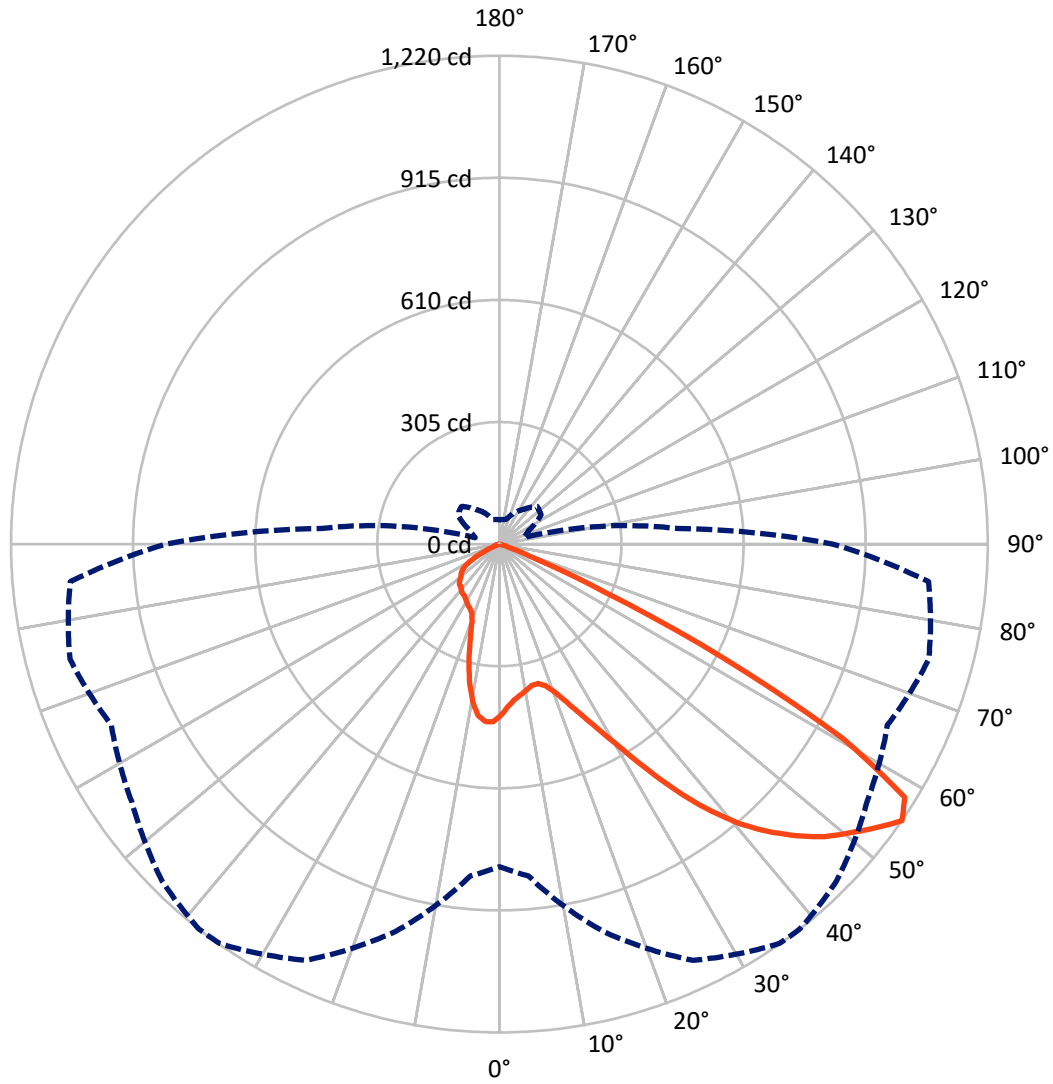
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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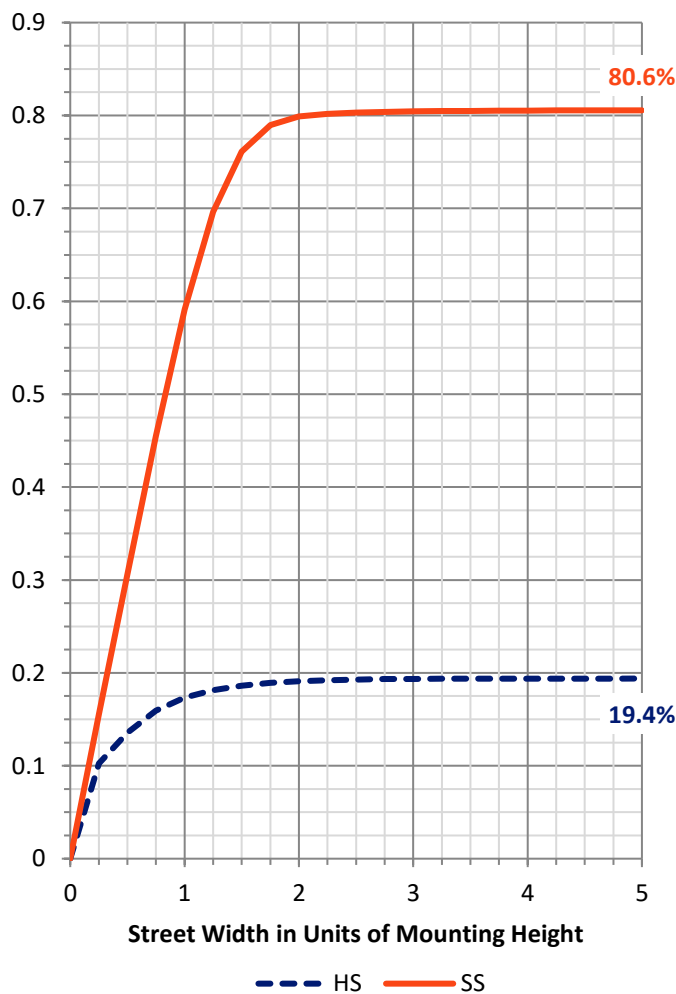
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	347.5	0.0	347.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	1436.1	0.0	1436.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	1783.6	0.0	1783.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	2.2
10°-20°	106.5	6.0
20°-30°	182.7	10.2
30°-40°	303.0	17.0
40°-50°	445.5	25.0
50°-60°	520.5	29.2
60°-70°	176.4	9.9
70°-80°	9.0	0.5
80°-90°	0.3	0.0
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°	1783.6	100.0
0°-180°	1783.6	100.0

Coefficient of Utilization



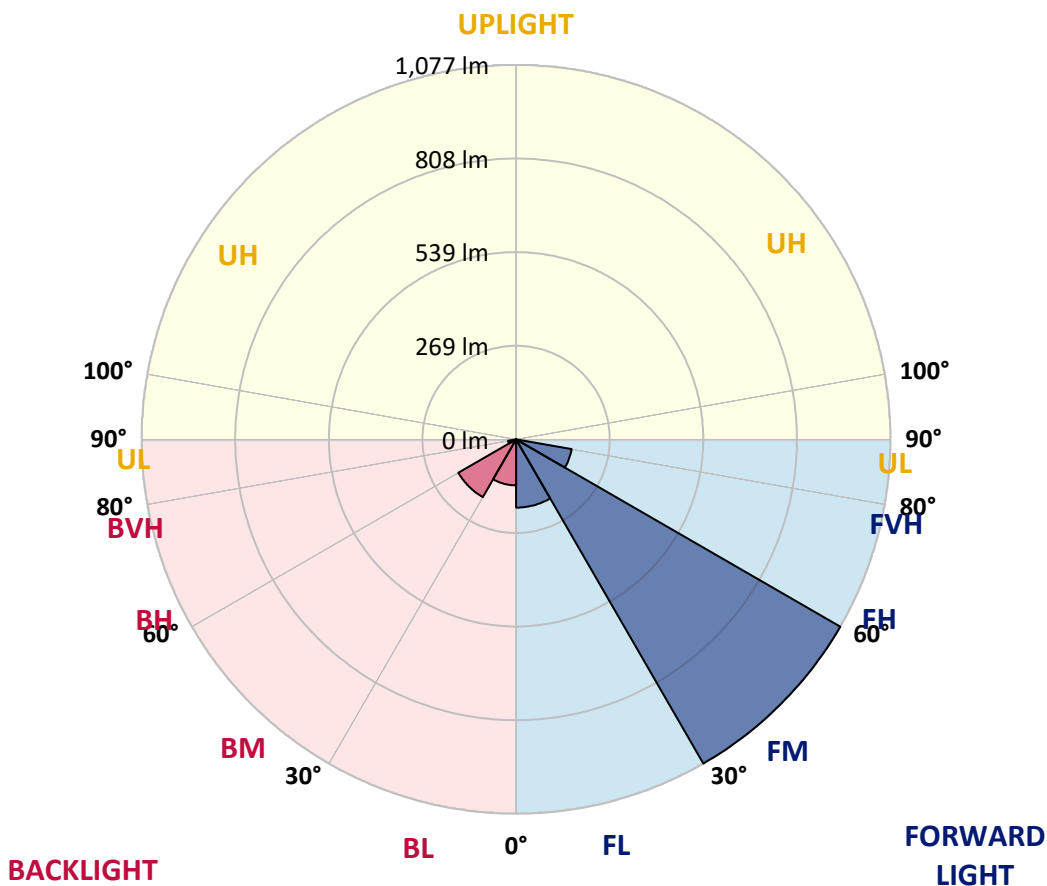
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	196.3	11.0			
FM (30°-60°)	1077.2	60.4			
FH (60°-80°)	162.3	9.1			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	132.4	7.4	B1/500		
BM (30°-60°)	191.8	10.8	B0/220		
BH (60°-80°)	23.1	1.3	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	427.7	427.7	427.7	427.7	427.7	427.7	427.7	427.7	427.7	427.7	427.7
2.5°	398.4	397.5	399.2	402.4	405.5	406.5	409.6	413.9	416.5	422.8	427.9
5°	380.4	380.0	381.6	384.5	388.6	390.0	394.7	401.8	409.0	420.0	430.8
7.5°	364.1	363.9	366.4	372.7	378.6	380.4	386.1	394.9	404.5	421.4	437.3
10°	342.7	342.9	347.6	356.6	367.4	371.0	380.2	392.9	405.3	427.1	449.1
12.5°	335.8	336.2	338.6	345.6	357.4	362.1	374.9	394.1	410.0	435.3	464.4
15°	352.7	352.7	350.7	351.5	356.8	361.1	374.5	398.2	417.9	445.0	479.5
17.5°	385.5	384.3	379.2	372.3	370.4	371.9	382.7	406.9	429.1	456.5	496.6
20°	430.0	430.4	420.4	405.9	394.3	394.1	400.6	422.4	445.3	470.1	515.2
22.5°	483.8	482.2	468.9	449.1	428.9	427.3	430.0	446.1	468.5	491.7	538.0
25°	546.2	545.4	526.6	500.1	473.4	469.5	469.5	485.4	501.7	522.5	565.3
27.5°	611.4	611.4	593.3	562.7	527.2	520.3	519.3	538.0	548.8	552.9	588.4
30°	678.5	677.7	659.7	628.3	590.4	583.3	580.4	594.3	602.0	589.8	617.1
32.5°	746.6	748.0	729.9	700.7	666.9	662.2	653.4	653.4	659.7	642.6	662.4
35°	819.8	819.4	805.1	785.3	756.4	751.1	736.6	714.0	723.5	716.0	725.0
37.5°	884.4	887.4	880.5	865.8	842.4	837.1	813.2	772.3	779.6	791.4	799.4
40°	950.0	952.5	959.4	954.7	925.2	915.4	873.0	805.7	813.9	854.4	877.3
42.5°	1014.5	1015.7	1029.8	1037.5	997.9	980.8	918.2	826.1	834.6	903.8	943.7
45°	1055.4	1058.1	1081.3	1105.0	1062.2	1038.7	957.6	852.2	855.8	938.0	992.9
47.5°	1053.8	1059.9	1103.6	1146.6	1117.4	1092.1	1004.9	894.0	887.9	970.2	1025.3
50°	1021.0	1028.3	1090.9	1159.2	1157.2	1133.7	1057.5	954.5	935.4	998.8	1029.3
52.5°	952.9	974.1	1068.7	1160.8	1189.2	1177.4	1122.5	1036.1	999.6	1039.7	1035.9
55°	805.7	831.8	1001.2	1147.0	1218.1	1219.6	1190.8	1121.1	1069.3	1110.3	1076.0
57.5°	611.6	632.4	770.6	1021.0	1170.2	1193.7	1217.3	1165.9	1112.3	1158.4	1085.4
60°	368.6	392.7	482.6	749.2	945.1	985.1	1077.9	1067.9	1003.2	1023.0	890.1
62.5°	149.4	162.1	222.8	412.8	594.9	632.2	721.1	736.2	720.3	700.1	539.8
65°	54.6	59.7	89.3	170.6	273.6	287.3	334.1	360.9	382.9	326.0	200.8
67.5°	33.8	37.1	58.1	87.7	99.5	92.6	94.2	112.3	107.2	66.3	35.9
70°	25.1	27.7	45.5	60.8	40.2	31.0	21.0	22.4	20.2	17.7	17.5
72.5°	17.3	19.8	34.0	35.9	15.5	11.0	7.7	10.8	12.2	12.0	12.4
75°	11.4	13.3	21.4	14.1	3.9	3.1	2.7	5.7	7.3	7.3	7.5
77.5°	6.7	7.7	7.5	2.9	0.8	0.8	0.6	1.0	1.6	1.8	2.2
80°	0.8	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.6
82.5°	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6
85°	0.0	0.0	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.6	0.6
87.5°	0.0	0.0	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.6	0.6
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°	427.7	427.7	427.7	427.7	427.7	427.7	427.7	427.7	427.7	427.7	427.7
2.5°	431.8	430.4	436.3	440.6	444.0	445.7	443.4	443.2	443.2	438.7	437.5
5°	436.9	437.5	445.9	449.5	450.1	448.1	443.0	439.5	437.5	432.8	430.2
7.5°	446.7	448.7	456.7	456.1	450.6	441.2	427.7	417.3	410.6	403.3	398.8
10°	460.7	464.6	469.5	461.0	443.4	419.6	391.8	372.1	360.2	351.9	346.8
12.5°	477.9	481.7	480.1	459.9	423.4	380.8	345.2	316.6	303.0	295.4	290.1
15°	495.2	497.6	487.0	447.7	388.2	330.9	291.1	262.8	246.1	240.0	235.5
17.5°	512.9	512.3	488.3	423.6	341.1	274.6	235.5	216.1	211.4	210.4	210.0
20°	531.5	526.0	483.4	389.2	284.4	219.0	196.7	198.0	206.5	210.6	211.4
22.5°	552.7	538.8	471.1	342.5	226.5	182.5	184.7	196.7	208.4	213.9	214.7
25°	575.3	550.7	450.8	282.6	178.6	167.8	181.0	194.9	207.3	214.1	214.9
27.5°	590.2	553.5	417.3	222.2	153.3	162.1	176.1	189.4	202.2	209.6	210.6
30°	606.3	552.3	371.9	171.3	144.7	157.2	169.4	181.4	193.3	201.4	202.2
32.5°	630.0	551.5	316.4	139.0	141.3	153.3	162.3	172.3	180.4	185.1	184.5
35°	660.9	550.5	251.8	125.4	139.2	150.3	157.4	162.1	153.1	150.3	150.9
37.5°	700.7	552.9	197.3	119.7	138.6	149.4	155.6	142.1	128.2	122.9	122.1
40°	744.7	559.2	150.5	117.4	140.7	151.5	148.6	126.4	109.3	98.9	96.6
42.5°	789.0	566.1	119.1	116.6	144.1	157.2	137.2	115.0	89.3	83.4	82.6
45°	821.8	564.9	103.0	115.2	147.2	160.4	134.1	98.7	79.7	77.1	77.3
47.5°	838.3	551.5	94.2	111.9	148.4	157.2	126.6	91.9	73.2	76.0	78.5
50°	829.6	516.6	86.0	105.6	145.8	152.9	114.6	86.8	69.9	81.8	87.3
52.5°	818.9	473.8	77.1	95.8	139.4	147.0	109.9	85.4	67.9	78.9	83.0
55°	833.0	446.7	62.4	80.7	127.0	133.1	106.2	85.2	63.2	61.4	60.8
57.5°	813.2	392.7	44.6	58.1	97.5	105.4	103.6	83.8	56.1	55.9	56.7
60°	628.5	239.5	30.6	36.9	59.7	67.3	94.0	80.1	48.3	44.4	44.6
62.5°	357.2	101.9	21.0	22.8	30.6	36.3	71.8	72.8	44.6	42.4	44.6
65°	124.4	36.5	16.3	15.3	16.9	19.4	41.2	56.3	40.6	36.7	37.1
67.5°	25.7	18.1	14.5	12.6	12.6	12.6	21.0	35.1	33.4	29.2	29.6
70°	16.3	15.5	12.6	10.8	10.4	9.6	12.0	19.4	23.0	21.2	21.4
72.5°	12.0	11.8	10.0	8.8	7.7	6.9	7.5	9.6	11.8	12.2	12.4
75°	7.3	7.5	6.5	5.5	4.9	4.3	4.5	4.5	4.5	4.1	4.5
77.5°	2.2	2.4	2.0	1.6	1.4	1.4	1.4	1.2	1.0	0.6	0.6
80°	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.2	0.2	0.0	0.0
82.5°	0.6	0.6	0.6	0.6	0.4	0.4	0.2	0.2	0.0	0.0	0.0
85°	0.6	0.6	0.6	0.6	0.4	0.4	0.2	0.2	0.0	0.0	0.0
87.5°	0.6	0.6	0.6	0.6	0.4	0.4	0.2	0.2	0.0	0.0	0.0
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)