

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: P629089

Luminaire Tested: GWS-SA1A-830-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629089  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-830-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

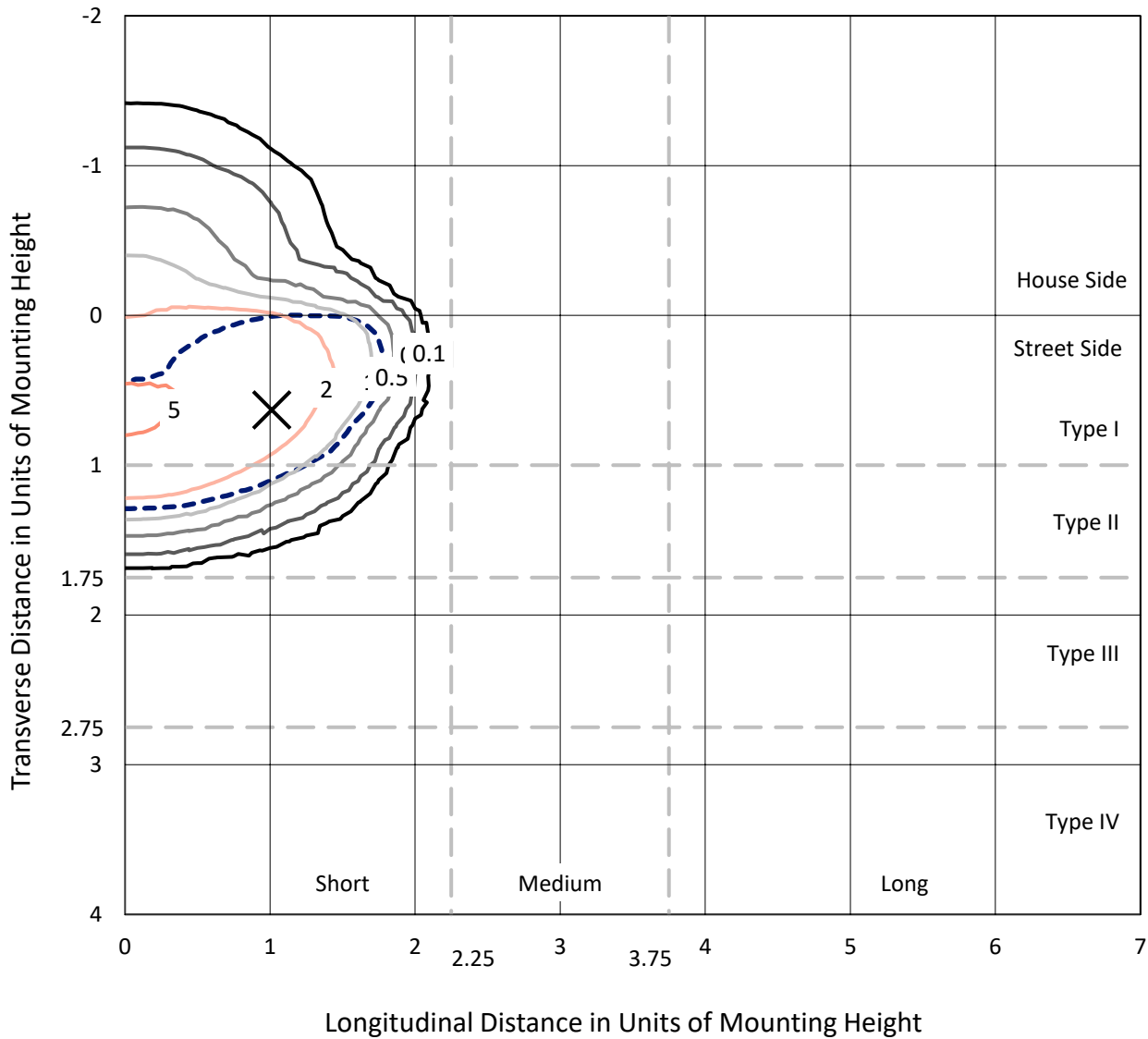
Lumens per Lamp: N/A  
Luminaire Lumens: 1514.3 lumens  
Efficiency: N/A  
Efficacy: 76.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G0  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

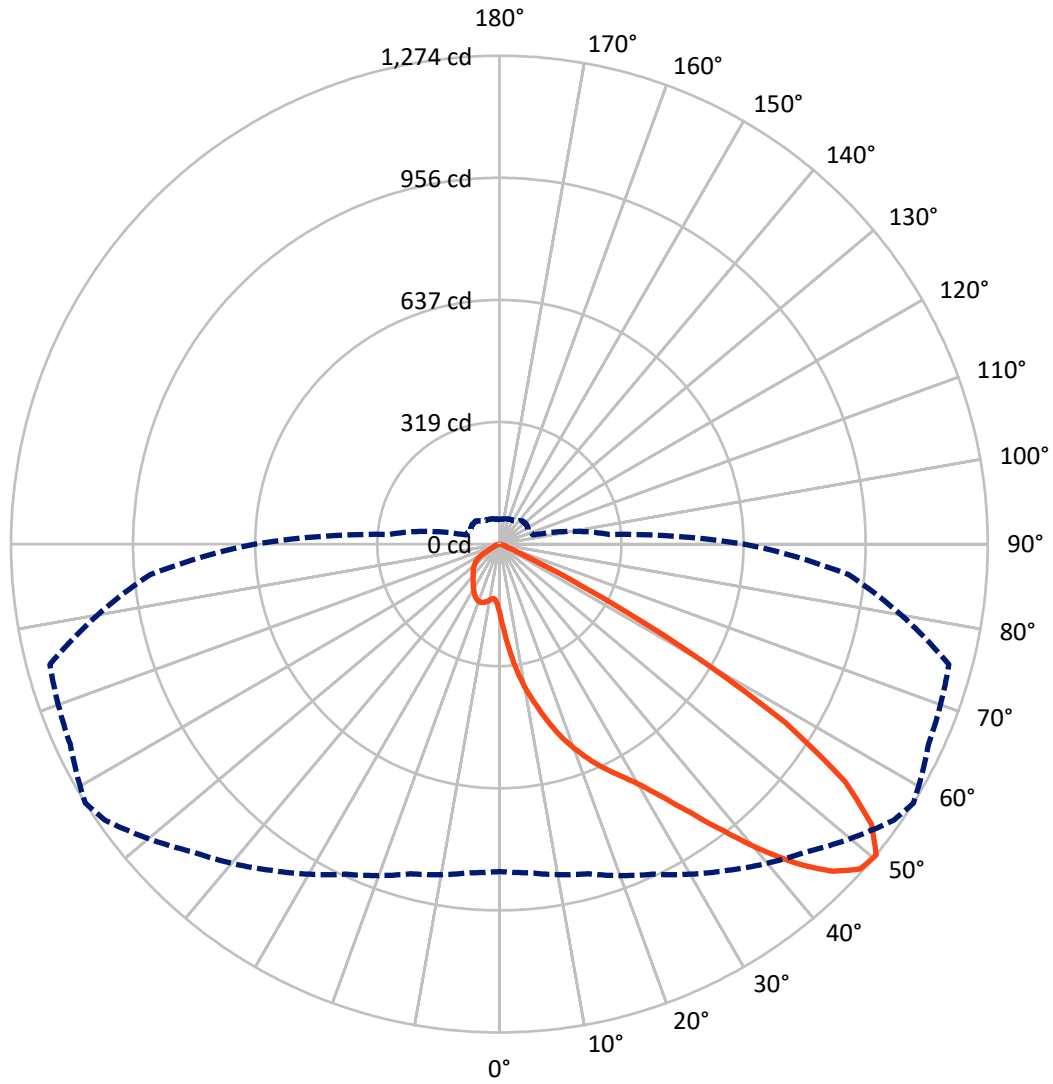
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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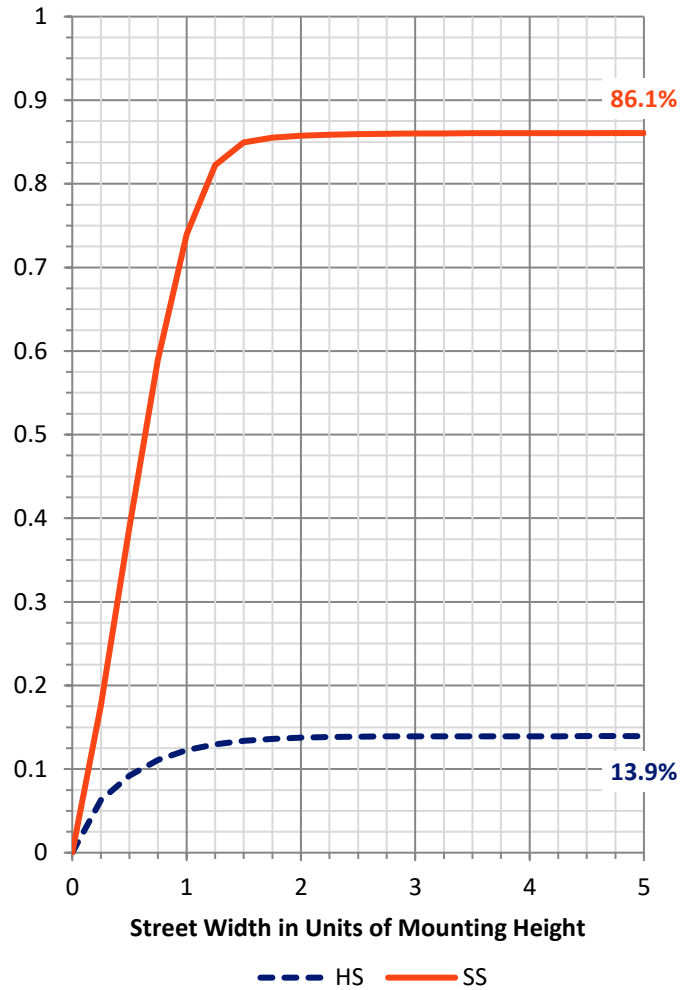
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	212.1	0.0	212.1
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	1302.2	0.0	1302.2
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	1514.3	0.0	1514.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.4	1.5
10°-20°	88.7	5.9
20°-30°	179.5	11.9
30°-40°	317.6	21.0
40°-50°	462.9	30.6
50°-60°	371.1	24.5
60°-70°	66.9	4.4
70°-80°	5.3	0.3
80°-90°	0.0	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°	1514.3	100.0
0°-180°	1514.3	100.0

**Coefficient of Utilization**



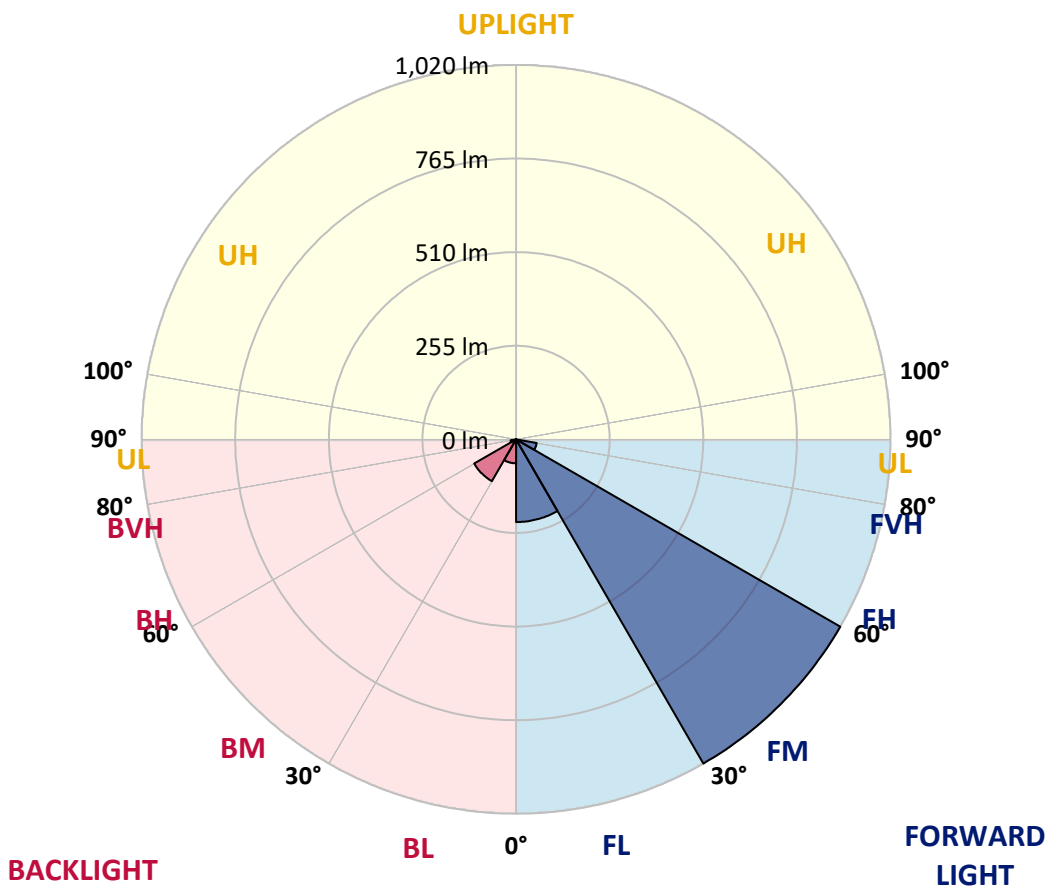
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	225.3	14.9			
FM (30°-60°)	1019.8	67.3			
FH (60°-80°)	57.0	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	65.3	4.3	B0/110		
BM (30°-60°)	131.7	8.7	B0/220		
BH (60°-80°)	15.1	1.0	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	180.9	180.9	180.9	180.9	180.9	180.9	180.9	180.9	180.9	180.9	180.9
2.5°	267.7	263.5	261.0	259.1	250.5	236.9	228.0	223.3	215.5	202.4	191.1
5°	349.3	346.2	340.5	336.7	325.6	306.4	286.5	278.5	260.9	231.2	204.7
7.5°	403.4	401.1	399.0	393.8	383.5	366.0	343.9	335.7	308.5	266.4	222.8
10°	445.0	443.2	440.8	440.6	432.5	416.8	395.3	386.7	357.2	304.6	244.2
12.5°	481.6	480.1	479.6	484.2	479.0	467.3	444.0	433.3	402.1	343.6	267.8
15°	506.7	506.4	508.5	517.4	520.3	515.0	495.4	483.9	447.9	382.8	293.9
17.5°	518.2	519.2	523.2	538.6	551.5	556.1	541.0	531.3	493.4	422.5	321.8
20°	537.8	537.5	539.9	554.5	570.3	586.5	582.0	573.7	539.4	464.4	352.7
22.5°	593.0	588.3	583.1	585.4	591.1	610.0	618.4	614.2	586.8	507.5	384.6
25°	677.9	673.0	656.3	640.1	629.4	638.0	649.5	651.6	634.0	551.7	418.0
27.5°	767.9	763.5	744.7	720.4	689.8	674.9	683.5	687.7	680.3	604.3	453.4
30°	852.3	846.4	825.9	795.7	760.3	737.4	727.7	730.6	735.0	666.7	495.0
32.5°	925.5	921.1	896.5	864.7	830.6	806.8	784.1	788.9	799.6	743.0	548.3
35°	987.5	985.2	959.1	927.6	891.4	879.3	859.9	860.8	871.5	835.1	613.2
37.5°	1041.4	1037.5	1013.9	984.6	955.9	954.0	948.6	949.1	954.6	942.5	687.9
40°	1075.4	1071.8	1055.0	1036.9	1016.5	1016.8	1044.5	1046.6	1040.3	1047.9	766.8
42.5°	1088.2	1085.6	1076.5	1076.7	1074.6	1084.1	1136.1	1140.0	1117.3	1130.6	834.1
45°	1066.0	1064.9	1065.5	1088.8	1114.1	1143.6	1211.1	1217.9	1185.8	1185.5	886.8
47.5°	994.4	992.2	1011.1	1050.8	1109.2	1166.6	1256.4	1267.0	1233.8	1216.9	919.8
50°	854.2	860.7	890.6	950.2	1039.1	1135.0	1256.0	1274.3	1235.6	1214.2	914.3
52.5°	618.8	617.5	683.0	765.0	873.1	1034.0	1189.2	1216.0	1192.3	1187.1	902.0
55°	336.7	348.5	392.7	501.2	636.2	842.7	1036.9	1095.2	1122.5	1177.3	924.2
57.5°	123.7	128.9	156.6	233.3	336.8	524.0	792.0	880.0	964.5	1149.7	920.4
60°	49.9	50.8	61.9	85.8	141.5	266.7	475.1	553.2	632.8	880.1	706.4
62.5°	36.3	37.6	41.9	50.2	71.6	116.6	204.8	238.2	260.4	435.9	348.0
65°	29.3	30.3	33.8	37.6	47.3	62.7	66.1	63.6	63.3	112.7	79.8
67.5°	24.3	25.3	27.9	30.4	34.0	31.3	22.7	23.8	19.4	19.3	15.7
70°	17.8	18.9	21.5	24.3	20.4	8.4	13.1	19.4	14.7	12.3	12.0
72.5°	13.4	14.3	16.7	15.9	6.0	3.2	8.7	14.1	11.3	9.1	8.9
75°	10.0	10.5	8.4	2.6	0.6	0.8	3.2	5.8	6.3	5.2	5.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.6	0.8	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	180.9	180.9	180.9	180.9	180.9	180.9	180.9	180.9	180.9	180.9	180.9
2.5°	184.6	177.8	168.1	160.0	153.8	147.8	143.3	138.8	138.6	136.3	135.9
5°	192.4	180.1	162.3	149.5	141.7	137.0	133.8	132.1	131.3	130.5	130.2
7.5°	203.6	185.9	161.3	147.7	141.2	138.1	135.9	134.9	134.4	133.8	133.6
10°	217.3	194.3	164.8	151.1	145.4	142.5	140.1	138.6	137.8	136.7	136.3
12.5°	233.8	204.7	170.5	156.8	150.8	146.9	143.6	141.5	140.4	138.9	138.6
15°	251.6	215.9	176.8	161.9	154.8	149.8	145.7	142.5	140.4	138.6	138.1
17.5°	270.1	227.2	182.5	165.5	156.8	150.8	144.9	140.6	138.0	135.7	135.1
20°	290.8	238.9	186.2	166.1	156.1	148.2	141.4	135.9	133.3	130.2	129.5
22.5°	312.5	249.7	187.8	164.7	152.5	143.3	136.0	130.4	126.6	123.4	122.4
25°	333.6	259.4	187.0	160.6	147.2	136.5	129.1	123.2	119.2	115.9	115.1
27.5°	355.9	267.5	184.1	154.6	139.9	129.1	121.9	116.9	113.2	109.6	108.8
30°	381.0	275.0	179.4	147.4	131.3	121.5	115.9	112.5	108.5	104.8	103.6
32.5°	411.3	281.6	172.6	138.6	123.7	114.8	111.7	109.1	104.4	100.6	99.8
35°	446.0	287.1	164.0	129.5	116.3	110.6	110.0	106.6	100.4	95.9	94.9
37.5°	486.1	292.5	153.8	120.6	110.8	108.7	108.8	103.0	95.5	90.0	89.4
40°	529.4	297.8	142.5	112.9	105.7	107.5	106.1	97.8	85.7	80.3	79.7
42.5°	574.4	303.6	131.0	105.6	101.5	103.2	101.0	87.4	78.7	75.9	75.6
45°	615.0	310.6	118.5	98.3	97.3	96.8	93.3	79.2	75.5	73.5	73.4
47.5°	644.3	309.5	105.3	91.3	92.8	91.2	80.3	75.3	72.2	69.6	69.0
50°	639.0	289.7	91.5	83.6	87.0	85.5	72.2	70.8	68.0	65.3	64.3
52.5°	625.4	262.8	79.5	75.3	80.6	77.2	66.7	65.3	62.8	59.3	58.1
55°	632.7	237.6	70.1	68.7	74.2	64.0	60.6	58.3	55.7	51.8	51.3
57.5°	609.2	193.8	56.4	57.3	65.6	54.6	53.1	49.6	45.2	42.6	42.3
60°	421.7	104.1	35.3	36.4	47.4	45.8	47.6	44.4	39.0	36.6	36.1
62.5°	193.7	41.8	19.3	18.5	24.9	31.1	40.8	40.5	33.8	30.0	29.6
65°	47.0	19.1	13.8	13.0	14.1	18.6	26.6	31.9	27.4	22.8	22.3
67.5°	15.2	15.5	12.6	11.8	12.5	13.9	15.9	17.7	17.5	16.0	15.7
70°	12.1	14.1	11.7	10.7	10.7	11.2	10.7	8.6	7.4	8.1	8.4
72.5°	9.1	10.7	9.2	8.3	7.9	7.8	6.6	4.9	3.4	3.1	2.9
75°	5.3	6.0	5.7	4.9	4.5	4.0	3.2	2.1	1.1	0.8	0.5
77.5°	1.0	1.1	1.3	1.0	0.8	0.6	0.5	0.2	0.0	0.0	0.0
80°	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)