

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: P628987

Luminaire Tested: GWS-SA1A-760-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628987  
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-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

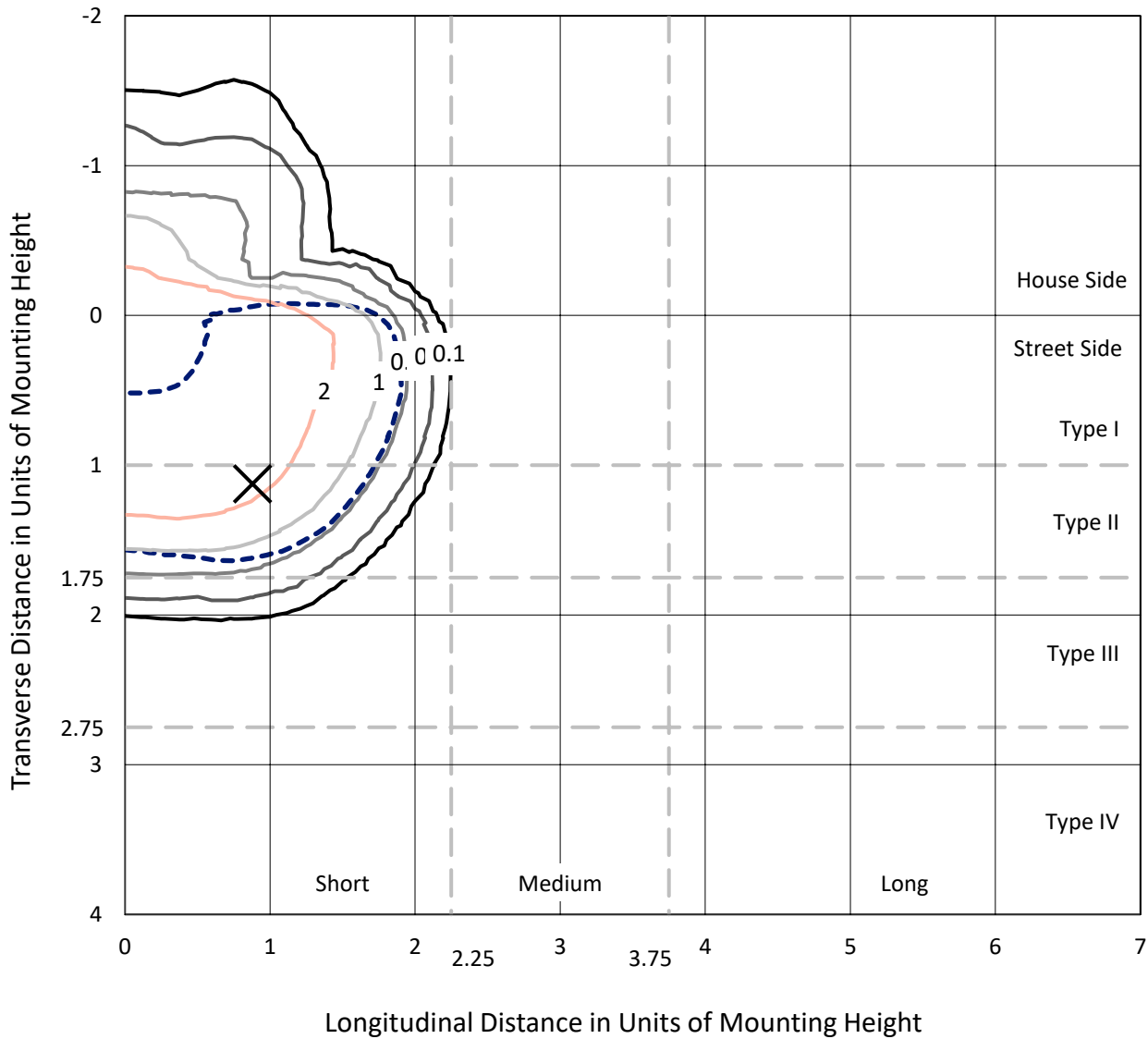
Lumens per Lamp: N/A  
Luminaire Lumens: 1799.4 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

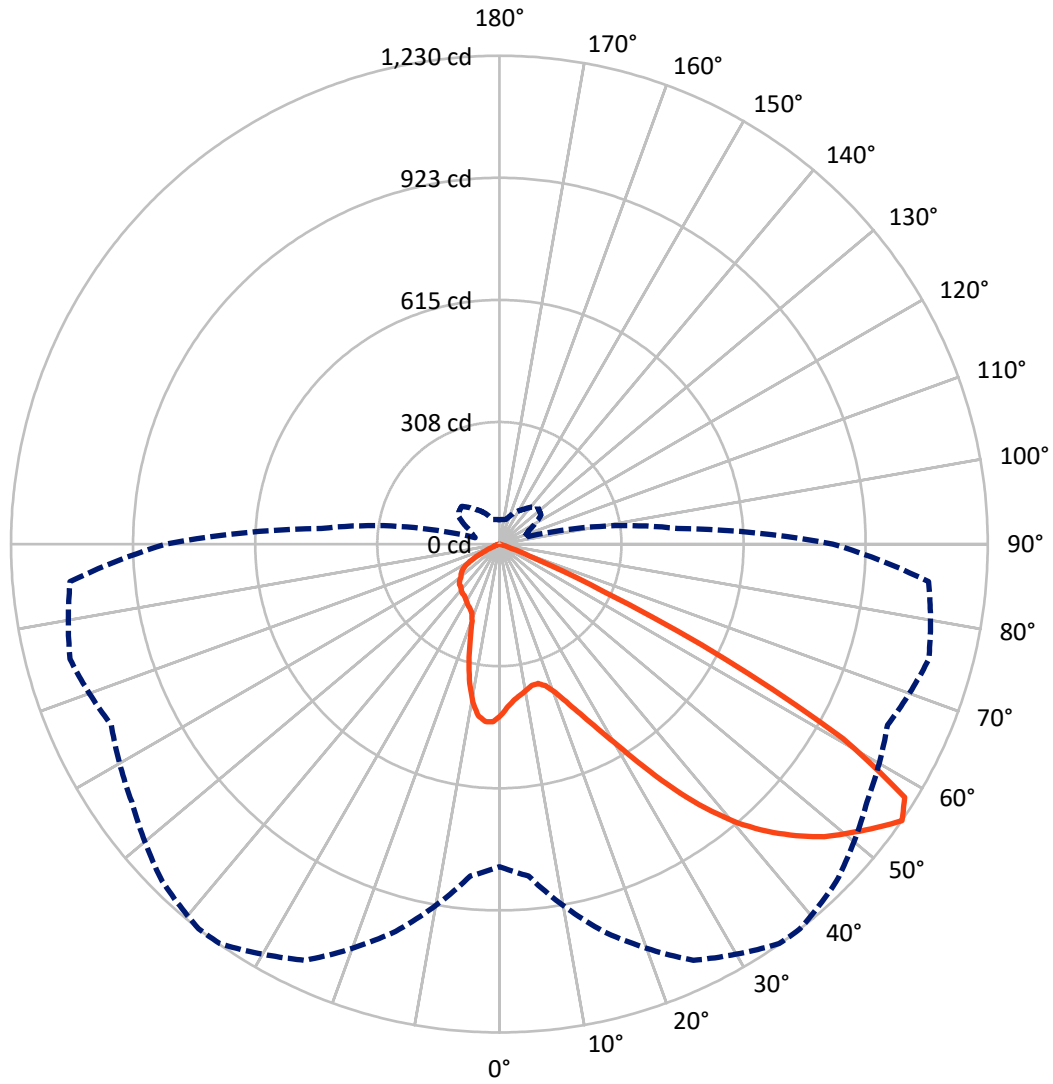
✕ Max cd  
 - - - 1/2 Max cd



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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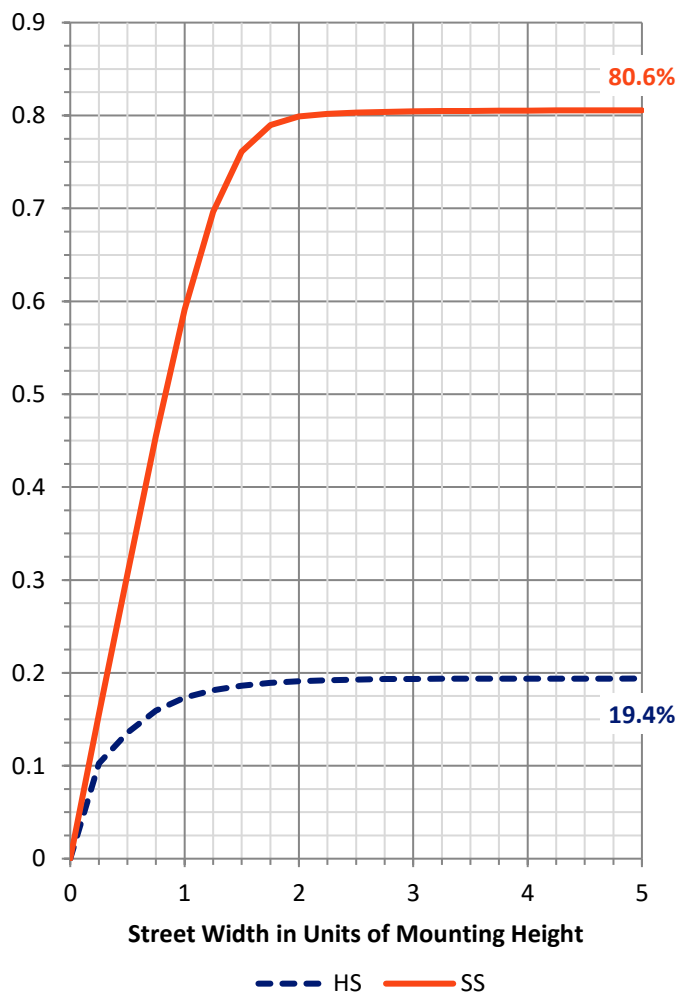
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	350.6	0.0	350.6
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	1448.8	0.0	1448.8
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	1799.4	0.0	1799.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.9	2.2
10°-20°	107.4	6.0
20°-30°	184.3	10.2
30°-40°	305.7	17.0
40°-50°	449.4	25.0
50°-60°	525.2	29.2
60°-70°	178.0	9.9
70°-80°	9.1	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°	1799.4	100.0
0°-180°	1799.4	100.0

**Coefficient of Utilization**



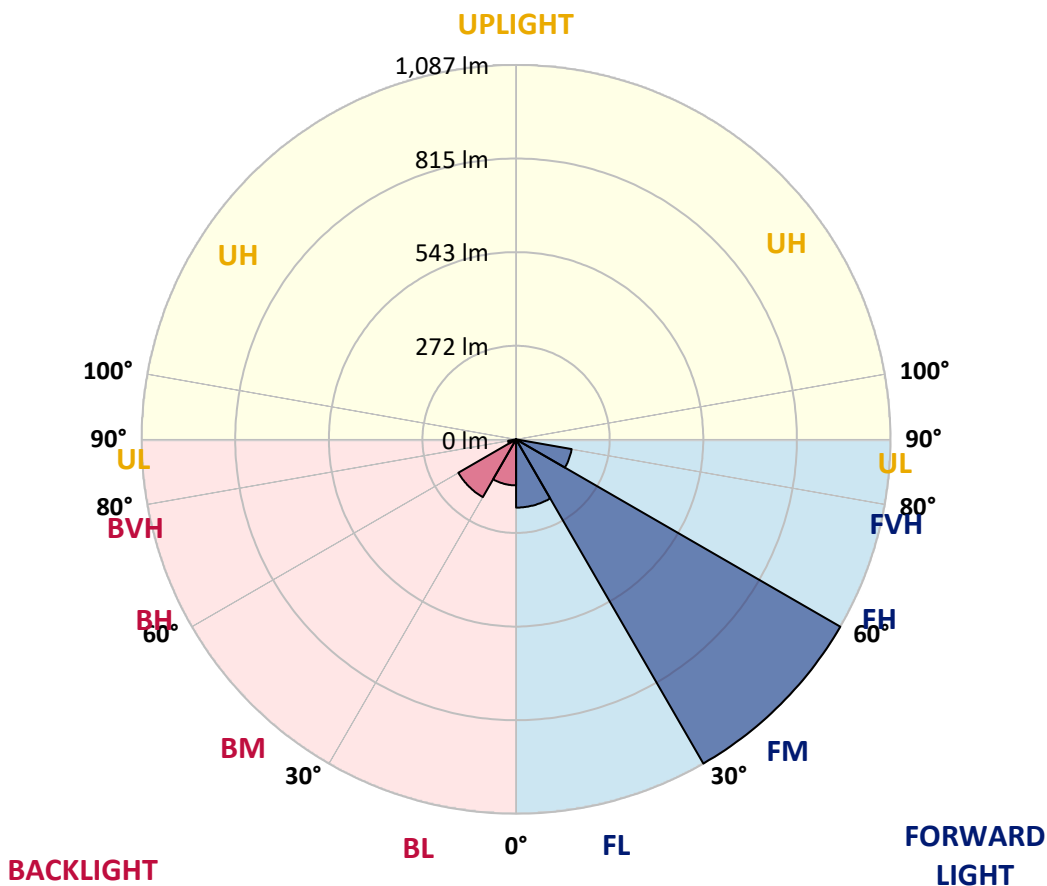
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	198.1	11.0			
FM (30°-60°)	1086.8	60.4			
FH (60°-80°)	163.8	9.1			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	133.6	7.4	B1/500		
BM (30°-60°)	193.5	10.8	B0/220		
BH (60°-80°)	23.3	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°	431.5	431.5	431.5	431.5	431.5	431.5	431.5	431.5	431.5	431.5	431.5
2.5°	401.9	401.1	402.7	406.0	409.1	410.1	413.2	417.5	420.2	426.6	431.7
5°	383.8	383.4	385.0	387.9	392.0	393.5	398.2	405.4	412.6	423.7	434.6
7.5°	367.3	367.1	369.6	376.0	381.9	383.8	389.6	398.4	408.1	425.1	441.2
10°	345.7	345.9	350.7	359.7	370.6	374.3	383.6	396.3	408.9	430.9	453.1
12.5°	338.7	339.2	341.6	348.6	360.6	365.3	378.2	397.6	413.6	439.1	468.5
15°	355.8	355.8	353.8	354.6	359.9	364.3	377.8	401.7	421.6	449.0	483.8
17.5°	388.9	387.7	382.6	375.6	373.7	375.2	386.1	410.5	432.9	460.5	501.0
20°	433.8	434.2	424.1	409.5	397.8	397.6	404.2	426.2	449.2	474.3	519.7
22.5°	488.1	486.4	473.1	453.1	432.7	431.1	433.8	450.0	472.6	496.1	542.8
25°	551.0	550.2	531.3	504.5	477.6	473.7	473.7	489.7	506.2	527.1	570.3
27.5°	616.8	616.8	598.5	567.7	531.9	524.9	523.9	542.8	553.7	557.8	593.6
30°	684.5	683.7	665.6	633.9	595.6	588.4	585.6	599.5	607.4	595.0	622.6
32.5°	753.2	754.6	736.3	706.9	672.8	668.0	659.2	659.2	665.6	648.3	668.2
35°	827.0	826.6	812.2	792.3	763.1	757.7	743.1	720.3	729.9	722.3	731.4
37.5°	892.2	895.3	888.3	873.5	849.9	844.5	820.4	779.1	786.5	798.4	806.5
40°	958.5	960.9	967.9	963.2	933.4	923.5	880.7	812.8	821.1	862.0	885.0
42.5°	1023.4	1024.7	1038.9	1046.7	1006.8	989.5	926.4	833.4	842.0	911.8	952.1
45°	1064.8	1067.5	1090.9	1114.8	1071.6	1047.9	966.1	859.7	863.4	946.3	1001.6
47.5°	1063.1	1069.3	1113.3	1156.7	1127.3	1101.8	1013.8	901.9	895.7	978.8	1034.3
50°	1030.0	1037.4	1100.6	1169.5	1167.4	1143.8	1066.8	963.0	943.6	1007.6	1038.5
52.5°	961.3	982.7	1078.2	1171.1	1199.7	1187.8	1132.5	1045.2	1008.4	1049.0	1045.0
55°	812.8	839.2	1010.1	1157.1	1228.9	1230.4	1201.4	1131.0	1078.8	1120.1	1085.6
57.5°	617.0	638.0	777.5	1030.0	1180.6	1204.2	1228.1	1176.3	1122.2	1168.7	1095.0
60°	371.9	396.1	486.8	755.9	953.5	993.8	1087.4	1077.3	1012.1	1032.1	898.0
62.5°	150.8	163.5	224.8	416.5	600.2	637.8	727.5	742.7	726.7	706.3	544.6
65°	55.1	60.3	90.1	172.2	276.0	289.8	337.1	364.0	386.3	328.9	202.6
67.5°	34.1	37.4	58.6	88.4	100.4	93.4	95.0	113.3	108.2	66.8	36.2
70°	25.3	28.0	45.9	61.3	40.5	31.3	21.2	22.6	20.4	17.9	17.7
72.5°	17.5	20.0	34.3	36.2	15.6	11.1	7.8	10.9	12.3	12.1	12.5
75°	11.5	13.4	21.6	14.2	3.9	3.1	2.7	5.8	7.4	7.4	7.6
77.5°	6.8	7.8	7.6	2.9	0.8	0.8	0.6	1.0	1.6	1.9	2.3
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°	431.5	431.5	431.5	431.5	431.5	431.5	431.5	431.5	431.5	431.5	431.5
2.5°	435.6	434.2	440.1	444.5	448.0	449.6	447.3	447.1	447.1	442.6	441.4
5°	440.8	441.4	449.8	453.5	454.1	452.1	446.9	443.4	441.4	436.7	434.0
7.5°	450.6	452.7	460.7	460.1	454.5	445.1	431.5	421.0	414.2	406.8	402.3
10°	464.8	468.7	473.7	465.0	447.3	423.3	395.3	375.4	363.4	355.0	349.9
12.5°	482.1	486.0	484.4	464.0	427.2	384.2	348.2	319.4	305.6	298.0	292.7
15°	499.6	502.1	491.4	451.7	391.6	333.8	293.7	265.1	248.3	242.1	237.6
17.5°	517.5	516.9	492.6	427.4	344.1	277.0	237.6	218.0	213.3	212.3	211.8
20°	536.2	530.6	487.7	392.6	286.9	220.9	198.5	199.7	208.4	212.5	213.3
22.5°	557.6	543.6	475.3	345.5	228.5	184.1	186.3	198.5	210.2	215.8	216.6
25°	580.4	555.5	454.8	285.1	180.2	169.3	182.6	196.6	209.2	216.0	216.8
27.5°	595.4	558.4	421.0	224.2	154.7	163.5	177.7	191.1	204.0	211.4	212.5
30°	611.7	557.2	375.2	172.8	146.0	158.6	170.9	183.1	195.0	203.2	204.0
32.5°	635.5	556.4	319.2	140.3	142.5	154.7	163.7	173.8	182.0	186.8	186.1
35°	666.8	555.3	254.0	126.5	140.5	151.6	158.8	163.5	154.5	151.6	152.2
37.5°	706.9	557.8	199.1	120.7	139.9	150.8	156.9	143.4	129.4	124.0	123.2
40°	751.3	564.2	151.8	118.5	141.9	152.8	149.9	127.5	110.2	99.8	97.5
42.5°	796.0	571.2	120.1	117.6	145.4	158.6	138.4	116.0	90.1	84.1	83.3
45°	829.1	569.9	103.9	116.2	148.5	161.9	135.3	99.5	80.4	77.7	78.0
47.5°	845.7	556.4	95.0	112.9	149.7	158.6	127.7	92.8	73.8	76.7	79.2
50°	836.9	521.2	86.8	106.5	147.1	154.3	115.6	87.6	70.5	82.5	88.0
52.5°	826.2	478.0	77.7	96.7	140.7	148.3	110.9	86.2	68.5	79.6	83.7
55°	840.4	450.6	62.9	81.4	128.1	134.3	107.2	86.0	63.8	61.9	61.3
57.5°	820.4	396.1	45.0	58.6	98.3	106.3	104.5	84.5	56.6	56.4	57.2
60°	634.1	241.7	30.9	37.2	60.3	67.9	94.8	80.8	48.7	44.8	45.0
62.5°	360.3	102.8	21.2	23.0	30.9	36.6	72.4	73.4	45.0	42.8	45.0
65°	125.5	36.8	16.5	15.4	17.1	19.5	41.5	56.8	40.9	37.0	37.4
67.5°	25.9	18.3	14.6	12.8	12.8	12.8	21.2	35.4	33.7	29.4	29.8
70°	16.5	15.6	12.8	10.9	10.5	9.7	12.1	19.5	23.2	21.4	21.6
72.5°	12.1	11.9	10.1	8.8	7.8	7.0	7.6	9.7	11.9	12.3	12.5
75°	7.4	7.6	6.6	5.6	4.9	4.3	4.5	4.5	4.5	4.1	4.5
77.5°	2.3	2.5	2.1	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)