

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: P628651

Luminaire Tested: GWS-SA1A-722-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628651  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-722-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

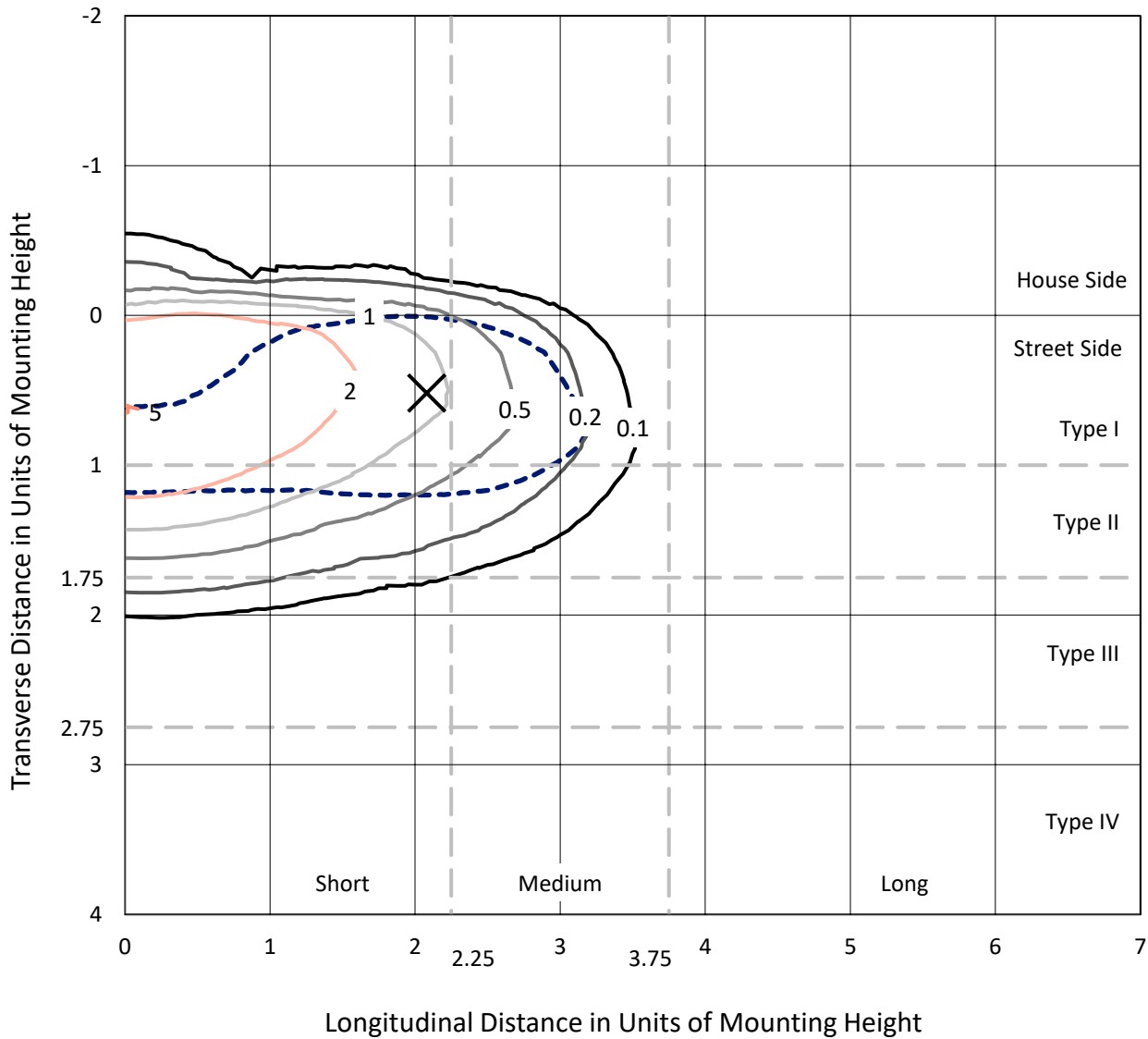
Lumens per Lamp: N/A  
Luminaire Lumens: 1689.3 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G0  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

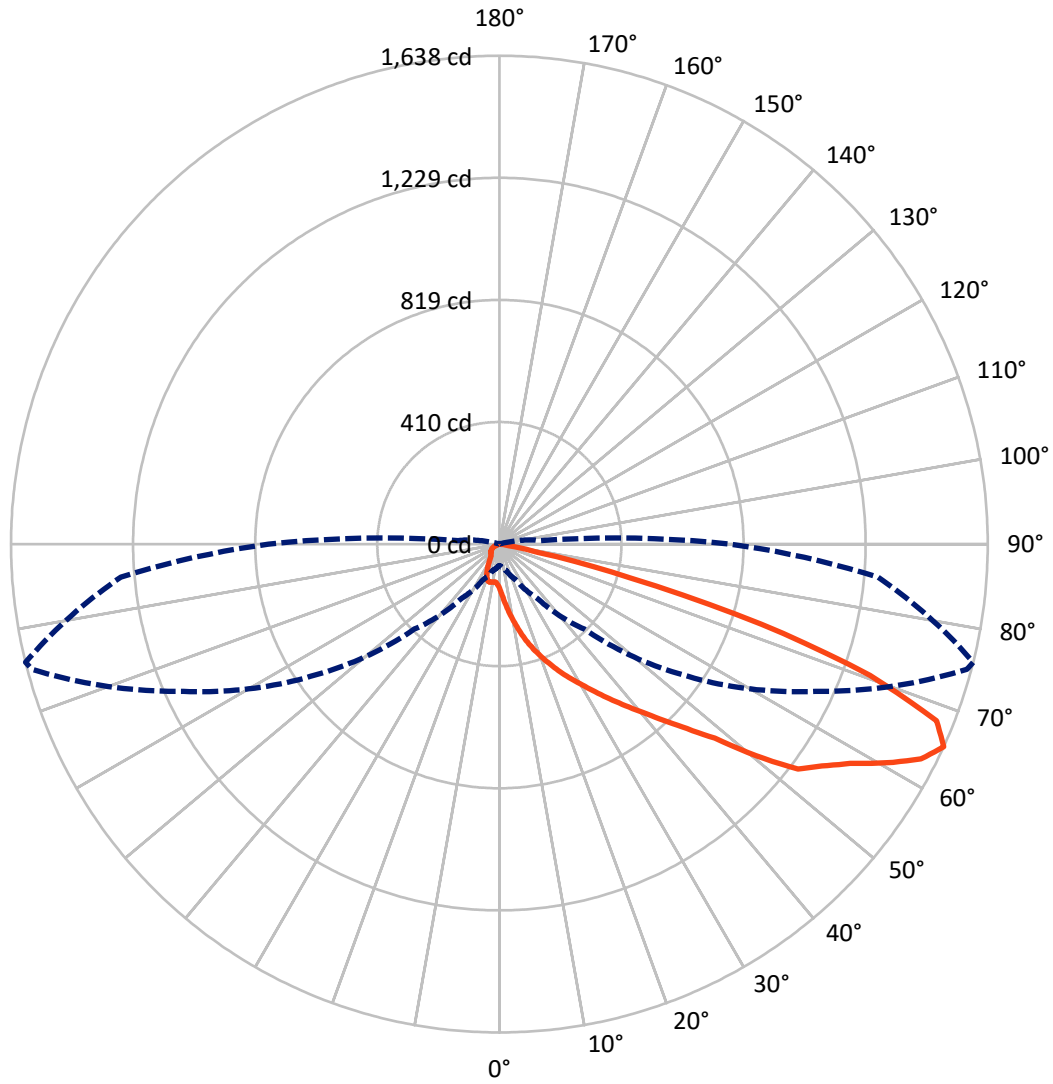
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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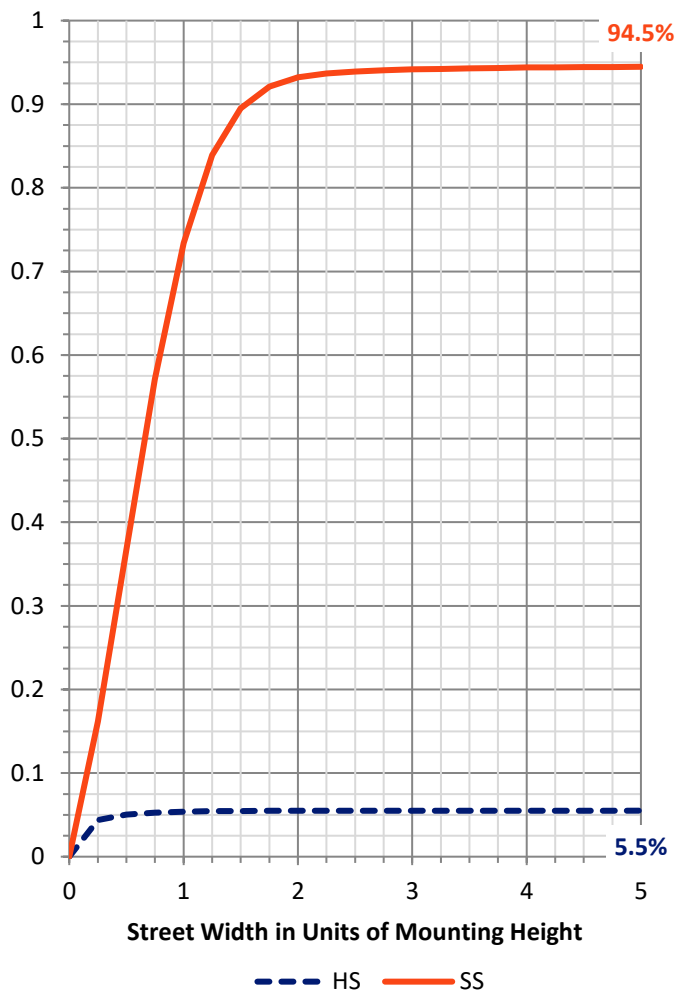
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	93.4	0.0	93.4
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	1595.9	0.0	1595.9
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	1689.3	0.0	1689.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.2	1.1
10°-20°	69.0	4.1
20°-30°	140.9	8.3
30°-40°	250.5	14.8
40°-50°	370.3	21.9
50°-60°	424.0	25.1
60°-70°	323.5	19.1
70°-80°	90.6	5.4
80°-90°	2.3	0.1
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°	1689.3	100.0
0°-180°	1689.3	100.0

**Coefficient of Utilization**



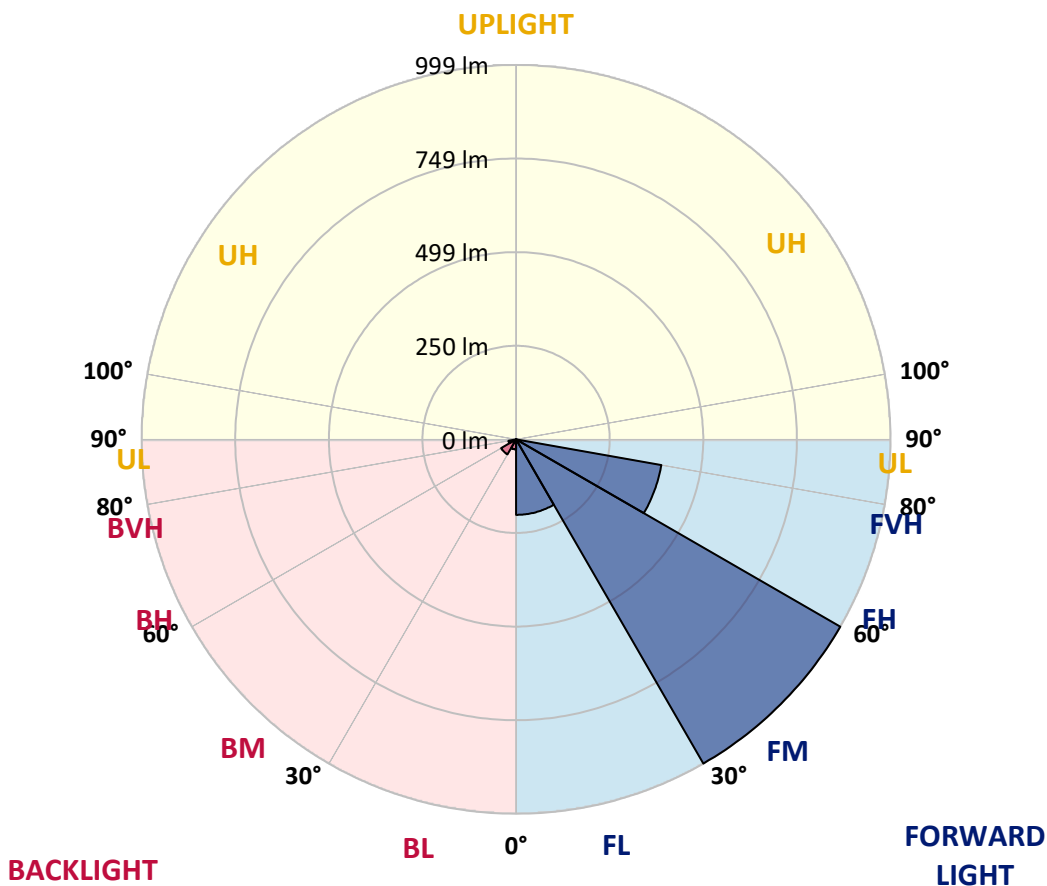
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	201.4	11.9			
FM (30°-60°)	998.7	59.1			
FH (60°-80°)	393.6	23.3			G0/660
FVH (80°-90°)	2.2	0.1			G0/10
BL (0°-30°)	26.7	1.6	B0/110		
BM (30°-60°)	46.1	2.7	B0/220		
BH (60°-80°)	20.5	1.2	B0/110		G0/110
BVH (80°-90°)	0.1	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°	65°	75°	76°	85°
0°	149.6	149.6	149.6	149.6	149.6	149.6	149.6	149.6	149.6	149.6	149.6
2.5°	230.5	234.0	231.3	226.7	218.0	209.6	198.8	184.0	172.1	170.6	159.5
5°	311.3	311.0	305.1	299.3	290.1	275.7	253.9	226.3	199.7	197.5	172.5
7.5°	359.3	359.8	356.5	352.0	343.0	328.1	305.4	272.1	233.2	228.7	190.4
10°	399.7	399.6	397.2	395.1	387.0	377.1	352.7	316.1	269.2	262.2	210.4
12.5°	430.1	431.1	432.3	434.4	431.0	421.2	398.2	358.3	305.7	297.9	233.2
15°	454.1	454.4	458.9	467.0	469.9	464.8	443.9	399.1	341.8	335.0	259.5
17.5°	461.3	461.9	469.6	484.4	499.4	502.3	486.5	440.3	377.2	370.0	285.0
20°	476.5	477.8	483.5	496.6	515.5	530.8	524.7	481.9	412.7	403.2	311.1
22.5°	524.2	525.0	523.0	524.7	534.4	552.2	555.9	522.1	449.0	438.9	339.4
25°	606.4	606.7	593.0	580.1	572.7	576.0	584.3	559.2	485.0	475.1	365.7
27.5°	691.7	692.7	676.3	654.4	628.1	613.1	610.7	593.2	521.4	510.4	391.6
30°	772.0	772.0	754.7	728.0	692.9	663.6	646.3	627.4	560.3	548.3	418.2
32.5°	844.2	843.6	821.6	792.6	757.9	725.7	689.4	663.1	603.5	590.1	448.8
35°	903.8	902.3	877.3	849.5	812.4	788.5	748.0	701.6	650.4	637.0	480.4
37.5°	948.9	947.2	924.3	894.8	860.4	845.0	811.0	747.7	699.8	687.6	515.4
40°	973.4	970.1	954.2	932.2	903.4	889.9	875.8	804.9	757.9	742.7	556.7
42.5°	980.6	976.7	966.2	956.0	938.5	927.9	943.0	869.5	821.7	808.6	603.8
45°	959.3	957.0	956.1	963.5	966.6	969.6	1007.0	940.9	892.1	882.2	663.1
47.5°	907.9	907.3	915.3	945.9	979.2	1010.9	1076.5	1029.1	983.4	972.8	746.0
50°	813.0	819.2	841.4	895.1	961.8	1034.3	1141.6	1151.3	1131.2	1115.6	854.1
52.5°	664.6	676.5	726.3	808.0	903.8	1027.7	1171.6	1249.2	1269.8	1253.6	931.6
55°	521.5	532.6	577.1	680.7	808.5	977.4	1172.9	1283.0	1327.9	1312.9	984.0
57.5°	388.5	398.7	439.1	538.2	678.7	878.5	1140.8	1301.8	1396.8	1387.2	1066.8
60°	253.9	264.0	300.5	387.1	526.5	734.3	1061.7	1297.9	1490.7	1489.8	1168.4
62.5°	140.9	148.8	175.2	242.8	367.5	568.7	937.3	1258.7	1581.5	1587.2	1252.2
65°	72.1	77.2	93.3	133.5	222.4	403.2	773.8	1168.9	1623.6	1638.0	1274.3
67.5°	47.2	48.8	52.7	69.4	119.1	253.6	582.3	1024.9	1564.4	1581.2	1200.3
70°	38.3	39.6	41.9	46.3	61.4	134.7	382.5	818.6	1307.2	1318.6	955.8
72.5°	28.1	29.9	34.2	37.1	44.3	73.9	199.0	537.3	897.7	917.8	600.7
75°	20.7	21.8	25.4	29.3	36.2	46.7	76.1	282.5	463.6	451.8	252.3
77.5°	12.5	13.2	16.2	18.8	25.8	29.1	26.6	104.4	141.0	132.6	61.0
80°	6.2	6.9	10.7	14.1	16.5	11.7	11.1	29.1	31.4	31.4	15.3
82.5°	2.1	2.7	5.7	9.3	8.1	4.5	5.3	7.5	8.4	8.9	4.5
85°	0.0	0.0	1.4	2.7	1.2	0.6	1.4	1.7	2.1	2.3	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	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°	149.6	149.6	149.6	149.6	149.6	149.6	149.6	149.6	149.6	149.6	149.6
2.5°	153.5	146.4	135.7	126.1	118.8	111.9	106.6	102.4	101.7	99.3	99.6
5°	160.4	147.6	127.9	112.8	102.1	94.9	88.9	84.4	82.4	80.5	79.0
7.5°	171.0	152.6	124.9	106.5	94.0	82.9	73.6	66.1	62.5	60.2	58.7
10°	184.1	159.5	125.1	102.7	84.2	67.3	54.5	46.3	42.3	41.1	41.0
12.5°	199.7	168.2	126.3	96.6	70.1	50.0	40.4	36.6	35.4	34.4	34.4
15°	216.2	177.9	126.3	85.3	53.5	39.0	35.0	32.6	31.1	30.5	30.2
17.5°	233.7	187.1	123.3	69.8	41.0	34.4	31.1	28.8	27.6	26.7	26.4
20°	252.3	195.8	115.8	53.5	35.1	30.8	27.6	25.4	24.2	23.3	23.3
22.5°	271.2	203.9	103.6	41.1	31.1	27.3	24.3	22.2	21.0	20.1	20.1
25°	288.8	209.3	88.0	33.9	28.1	24.3	21.6	19.5	18.2	17.6	17.3
27.5°	305.1	212.8	70.7	29.9	25.2	21.8	18.9	17.0	15.9	15.5	15.2
30°	322.1	213.7	54.1	27.2	22.8	19.2	16.5	15.0	14.1	13.5	13.5
32.5°	338.6	212.6	41.3	24.9	20.7	17.0	14.7	13.4	12.6	12.2	12.0
35°	355.4	207.8	33.5	23.0	18.6	14.9	13.1	12.0	11.6	11.0	11.0
37.5°	373.8	201.4	29.1	21.0	16.5	13.4	11.7	11.0	10.4	9.9	9.8
40°	396.6	193.9	26.7	19.4	14.6	12.0	10.5	9.8	9.3	8.9	8.7
42.5°	423.6	186.5	25.5	17.6	13.1	10.7	9.5	8.6	8.1	7.5	7.4
45°	461.9	184.9	24.2	15.6	11.7	9.6	8.3	7.4	6.8	6.3	6.2
47.5°	523.5	189.5	21.9	13.5	10.4	8.4	7.1	6.3	5.6	5.1	4.8
50°	584.6	188.3	19.7	11.7	9.2	7.2	6.0	5.3	4.5	4.1	3.9
52.5°	617.9	182.6	17.6	10.4	8.0	6.2	5.1	4.2	3.8	3.3	3.2
55°	648.1	180.3	15.5	9.0	6.8	5.4	4.2	3.5	3.2	2.7	2.6
57.5°	707.3	185.6	13.7	7.8	5.9	4.7	3.6	2.9	2.6	2.1	2.0
60°	769.1	186.2	11.7	6.8	5.1	3.9	2.9	2.3	2.0	1.5	1.4
62.5°	801.4	171.0	9.6	5.7	4.2	3.3	2.4	1.8	1.5	0.9	0.9
65°	774.4	138.3	8.1	4.7	3.3	2.6	1.8	1.4	0.9	0.5	0.2
67.5°	685.4	98.4	6.8	3.8	2.4	1.8	1.4	0.9	0.2	0.0	0.0
70°	501.9	56.2	5.3	2.7	1.8	1.2	0.9	0.5	0.0	0.0	0.0
72.5°	308.4	30.0	3.9	1.8	1.4	0.9	0.8	0.3	0.0	0.0	0.0
75°	117.0	14.4	2.4	1.2	1.1	0.8	0.5	0.2	0.0	0.0	0.0
77.5°	31.7	7.1	1.4	0.9	0.8	0.5	0.3	0.0	0.0	0.0	0.0
80°	8.3	3.3	0.9	0.6	0.5	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	2.9	1.5	0.5	0.5	0.3	0.2	0.0	0.0	0.0	0.0	0.0
85°	1.2	0.6	0.3	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.2	0.2	0.2	0.2	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)