

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: P628791

Luminaire Tested: GWS-SA1A-735-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628791  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-735-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

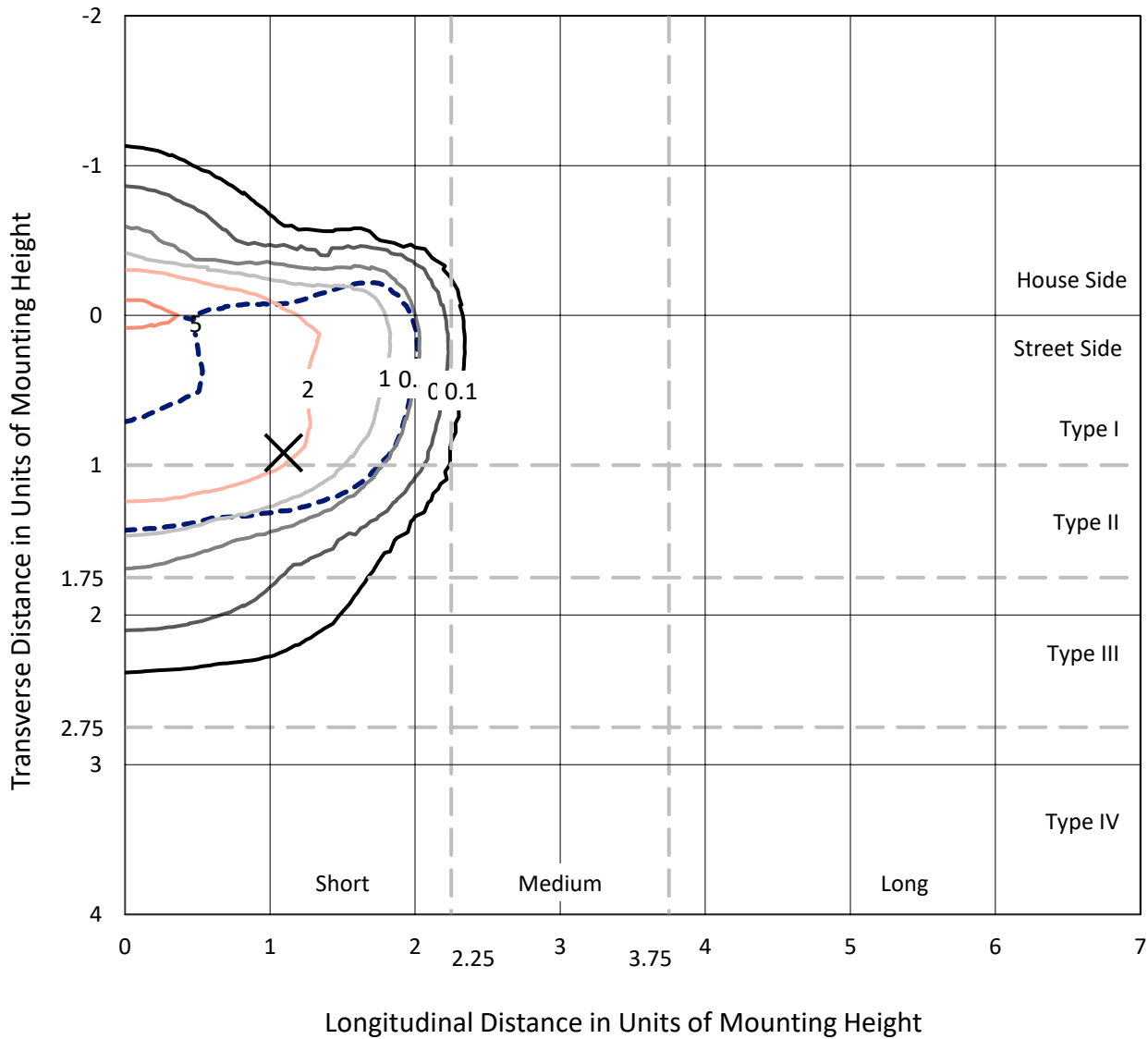
Lumens per Lamp: N/A  
Luminaire Lumens: 1646.9 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

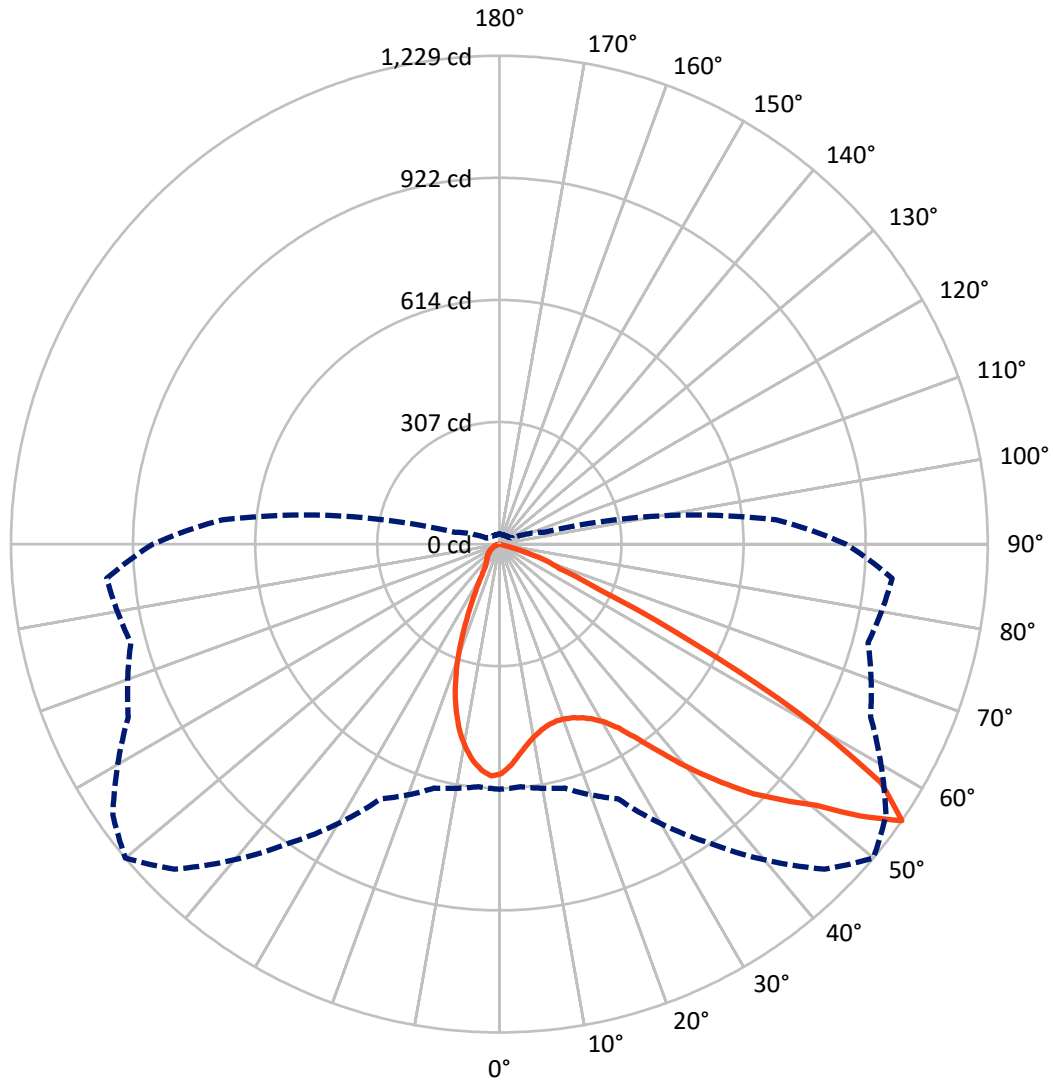
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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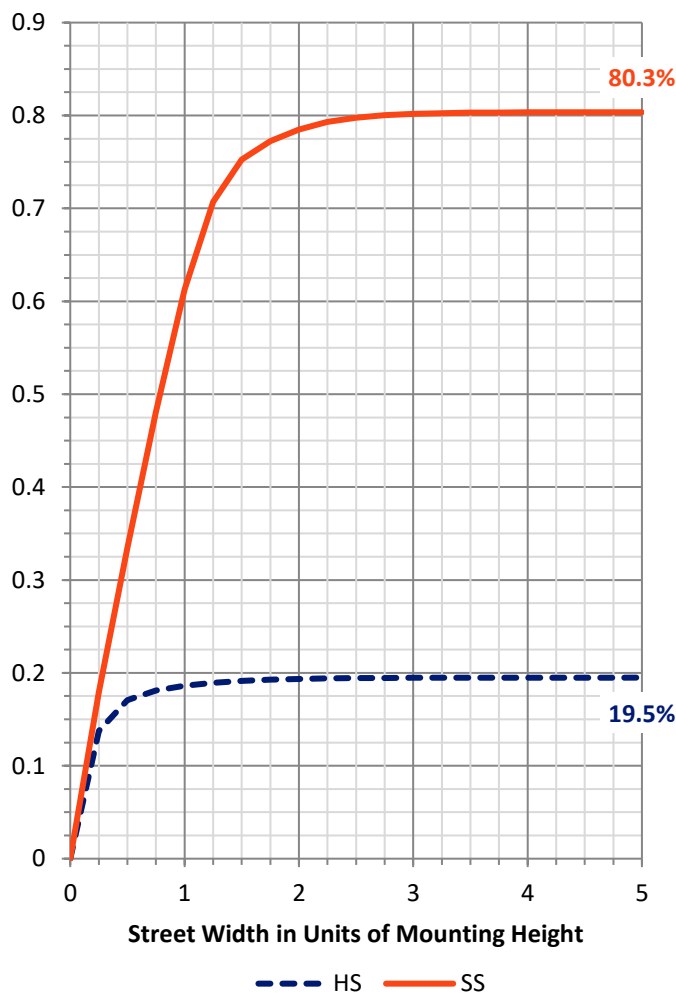
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	324.5	0.0	324.5
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	1322.4	0.0	1322.4
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	1646.9	0.0	1646.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.7	3.1
10°-20°	124.9	7.6
20°-30°	176.1	10.7
30°-40°	260.7	15.8
40°-50°	376.0	22.8
50°-60°	443.6	26.9
60°-70°	197.9	12.0
70°-80°	17.0	1.0
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°	1646.9	100.0
0°-180°	1646.9	100.0

**Coefficient of Utilization**



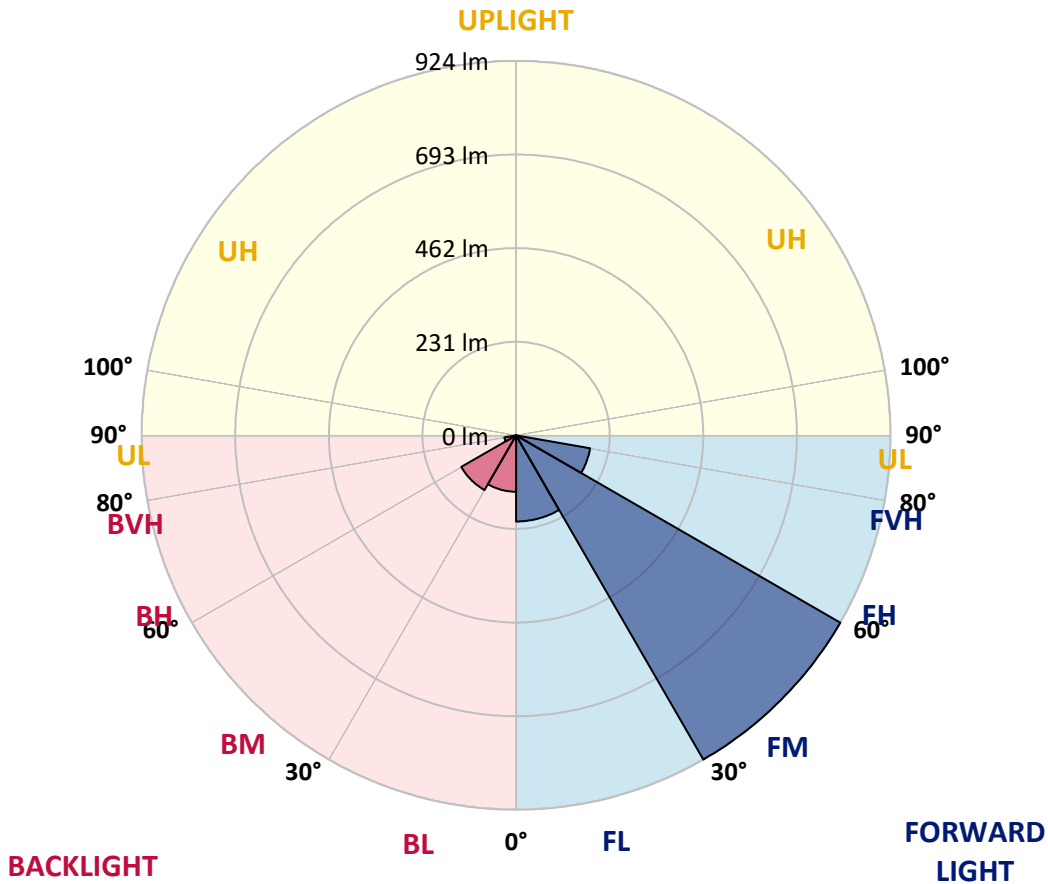
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	212.6	12.9			
FM (30°-60°)	924.2	56.1			
FH (60°-80°)	185.6	11.3			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	139.1	8.4	B1/500		
BM (30°-60°)	156.1	9.5	B0/220		
BH (60°-80°)	29.3	1.8	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: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	577.8	577.8	577.8	577.8	577.8	577.8	577.8	577.8	577.8	577.8	577.8
2.5°	536.8	537.2	537.4	542.8	544.9	552.9	557.1	559.3	565.2	572.0	577.6
5°	500.8	500.2	501.2	508.1	512.5	524.3	530.8	535.2	548.1	564.2	577.6
7.5°	469.5	470.7	471.9	479.3	485.9	498.8	508.1	514.7	532.6	556.5	579.2
10°	447.3	447.3	449.2	457.6	465.4	481.3	490.6	499.0	520.3	549.7	581.0
12.5°	431.1	431.3	433.5	443.1	452.2	468.7	478.3	486.5	510.1	542.8	581.4
15°	423.4	422.8	424.6	434.9	444.9	460.4	470.5	478.5	502.8	539.0	583.5
17.5°	421.4	421.0	422.4	432.5	442.7	457.8	467.6	475.7	501.8	540.2	589.5
20°	427.2	426.4	425.8	434.5	444.1	459.0	469.3	478.3	506.7	546.9	598.7
22.5°	441.1	441.1	439.7	443.9	450.4	463.8	474.5	486.3	519.3	560.1	612.4
25°	466.6	464.6	462.0	463.8	463.0	471.5	484.1	500.6	543.2	582.0	629.1
27.5°	495.8	497.6	493.2	493.4	486.3	483.3	498.0	522.9	578.8	613.0	653.8
30°	535.4	534.0	534.2	533.6	517.3	503.0	518.9	552.1	623.7	660.3	686.0
32.5°	566.4	568.4	575.0	578.8	557.5	534.6	551.5	591.7	674.7	714.1	725.4
35°	599.1	602.8	616.2	628.7	610.8	584.5	602.6	644.2	722.8	767.4	770.6
37.5°	633.7	641.0	657.0	679.0	676.1	652.8	669.3	705.9	760.6	799.6	808.0
40°	673.3	680.4	706.7	738.3	744.9	739.7	745.1	766.4	785.5	801.0	824.1
42.5°	716.8	726.4	759.8	802.0	826.9	831.6	818.9	816.7	796.4	784.9	820.7
45°	768.0	779.3	817.1	871.8	911.4	917.6	895.7	867.3	803.2	773.0	810.4
47.5°	825.5	836.2	873.8	939.5	998.4	1000.8	962.6	917.0	823.5	786.7	818.3
50°	844.8	851.5	884.0	961.2	1069.8	1088.3	1033.0	972.9	864.3	826.9	856.5
52.5°	778.5	781.1	809.4	887.4	1055.3	1174.1	1135.7	1056.3	936.9	888.2	915.4
55°	616.8	612.6	635.5	707.1	917.2	1156.7	1228.8	1187.4	1030.4	960.2	992.0
57.5°	431.5	426.4	421.2	469.7	684.4	980.5	1132.3	1205.7	1119.5	1031.6	1074.6
60°	354.7	349.8	324.5	302.2	413.8	704.1	869.8	1007.9	1112.2	1028.0	1072.0
62.5°	306.4	303.6	293.3	263.0	243.5	401.9	544.7	676.9	853.5	807.2	809.6
65°	240.7	239.9	246.9	250.1	215.3	222.4	277.9	351.8	461.4	435.1	412.6
67.5°	164.5	162.7	175.9	216.3	207.1	175.5	162.7	164.1	199.6	122.0	96.9
70°	104.5	100.3	100.5	134.1	168.5	138.5	125.5	110.4	99.3	18.1	20.5
72.5°	67.0	64.3	55.3	60.5	78.0	67.6	68.2	58.7	39.2	9.7	11.3
75°	28.1	25.9	19.9	15.9	15.7	9.9	8.6	8.0	5.4	5.4	5.8
77.5°	0.2	0.0	0.0	0.2	0.4	0.2	0.2	0.4	0.8	1.2	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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°	577.8	577.8	577.8	577.8	577.8	577.8	577.8	577.8	577.8	577.8	577.8
2.5°	581.0	576.2	581.6	583.7	583.5	583.7	577.8	573.8	573.6	568.6	566.2
5°	583.3	579.4	583.5	580.8	574.6	566.8	556.3	547.3	543.2	537.4	534.6
7.5°	587.5	583.5	582.9	572.4	556.9	540.4	521.9	505.4	496.6	485.9	486.5
10°	590.5	585.9	578.0	556.7	531.0	504.6	477.1	452.6	437.1	422.8	420.4
12.5°	591.7	584.9	566.6	534.4	498.2	463.8	423.4	388.4	364.3	345.6	343.0
15°	593.9	582.9	551.9	507.5	457.8	409.1	357.7	309.8	277.9	256.3	258.2
17.5°	597.3	580.6	535.4	477.3	414.4	345.6	276.0	221.2	191.8	179.3	179.5
20°	602.2	578.0	517.3	444.1	362.3	273.8	193.0	151.6	143.4	142.9	142.3
22.5°	608.6	575.4	498.0	407.7	300.6	191.8	128.5	115.6	119.0	125.7	126.9
25°	616.2	572.2	476.5	366.7	233.2	125.9	96.3	94.3	102.5	111.4	113.4
27.5°	628.1	570.6	452.0	320.1	163.7	90.3	78.8	80.0	87.5	94.9	96.7
30°	648.2	573.6	425.2	267.8	105.2	72.0	68.4	70.2	74.2	78.0	79.6
32.5°	675.5	582.4	399.3	210.7	75.0	62.5	61.7	62.7	64.3	66.5	67.2
35°	707.5	597.7	372.5	150.8	61.9	57.1	56.3	56.3	57.1	57.5	57.7
37.5°	733.8	613.8	347.4	100.3	55.5	52.9	51.7	51.1	50.9	51.3	51.5
40°	745.3	620.4	320.1	73.0	50.9	49.1	47.2	45.4	45.4	46.8	47.0
42.5°	737.3	613.0	288.5	60.3	47.6	45.0	42.2	40.6	41.4	42.8	43.2
45°	720.2	594.7	253.7	53.3	44.4	41.0	37.8	36.8	37.6	39.4	39.8
47.5°	717.4	582.6	212.1	48.7	41.0	37.6	34.2	33.2	34.2	35.6	36.0
50°	745.3	593.1	165.9	44.6	37.8	34.0	31.2	30.2	30.8	31.6	32.0
52.5°	796.4	631.9	133.9	40.8	34.0	30.4	28.5	27.3	27.3	28.1	28.3
55°	871.8	699.7	115.6	36.4	29.6	27.5	25.9	24.7	24.7	25.1	25.3
57.5°	958.6	781.7	119.8	30.6	25.9	24.9	23.5	22.5	22.9	22.9	22.9
60°	946.6	775.7	128.3	25.7	22.9	22.5	21.3	20.9	21.9	21.1	20.7
62.5°	697.2	535.8	67.2	21.1	19.7	19.3	18.5	19.3	20.7	18.5	17.7
65°	338.6	259.4	26.9	17.3	16.7	16.3	15.9	17.1	17.9	14.5	13.7
67.5°	79.6	64.7	17.5	14.7	13.9	13.1	13.5	13.7	13.1	9.9	9.4
70°	20.7	20.3	13.7	12.3	11.1	10.3	10.3	10.1	8.6	6.2	5.8
72.5°	11.3	11.1	9.9	9.2	7.6	6.8	7.0	6.2	4.8	3.6	3.4
75°	5.6	6.0	5.6	5.2	4.2	3.8	3.8	3.4	2.4	1.4	1.4
77.5°	1.2	1.4	1.4	1.2	1.0	0.8	0.8	1.0	0.4	0.0	0.0
80°	0.2	0.2	0.2	0.2	0.2	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)