

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: P628823

Luminaire Tested: GWS-SA1A-735-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628823  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-735-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

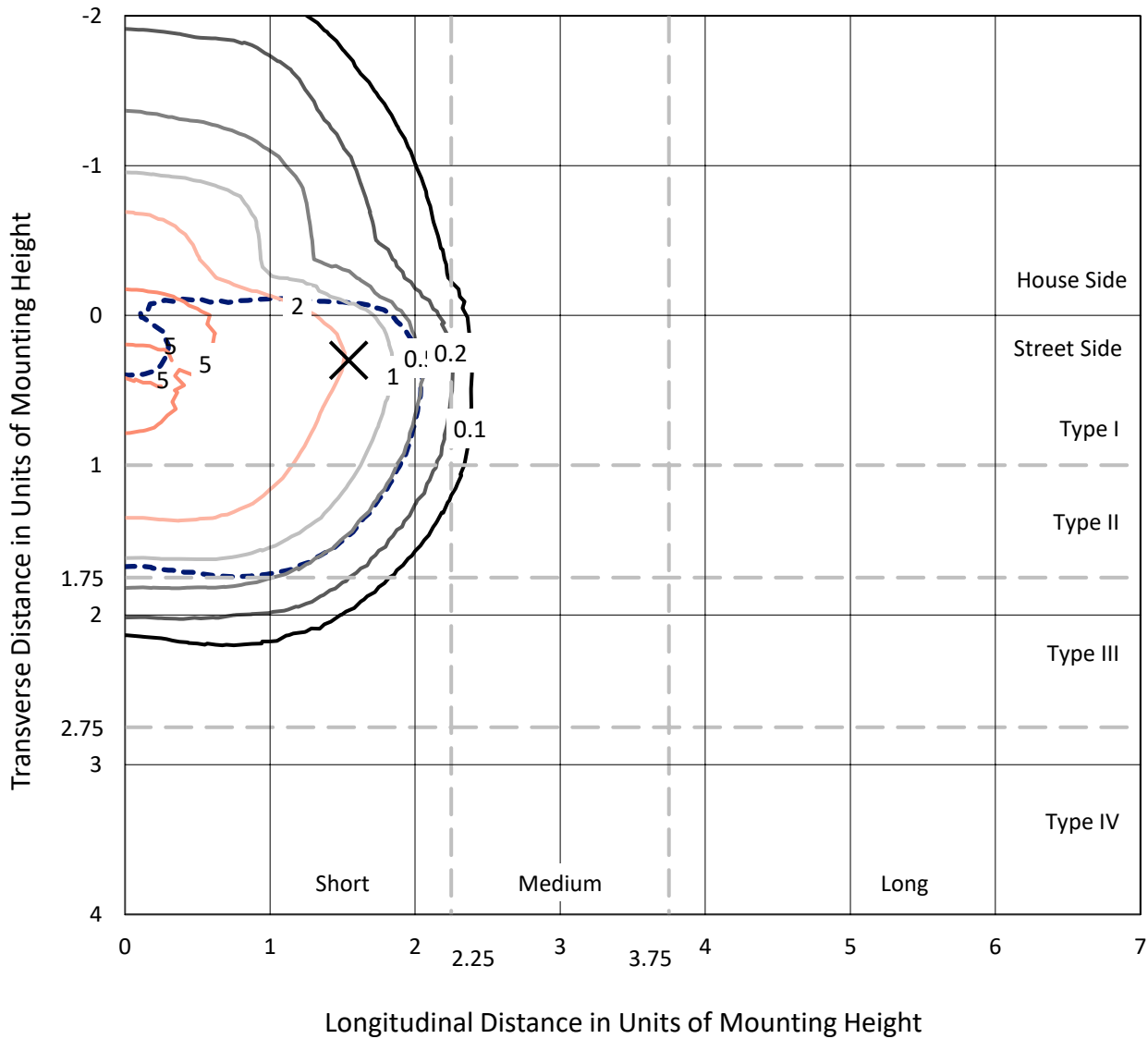
Lumens per Lamp: N/A  
Luminaire Lumens: 2459.1 lumens  
Efficiency: N/A  
Efficacy: 124.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

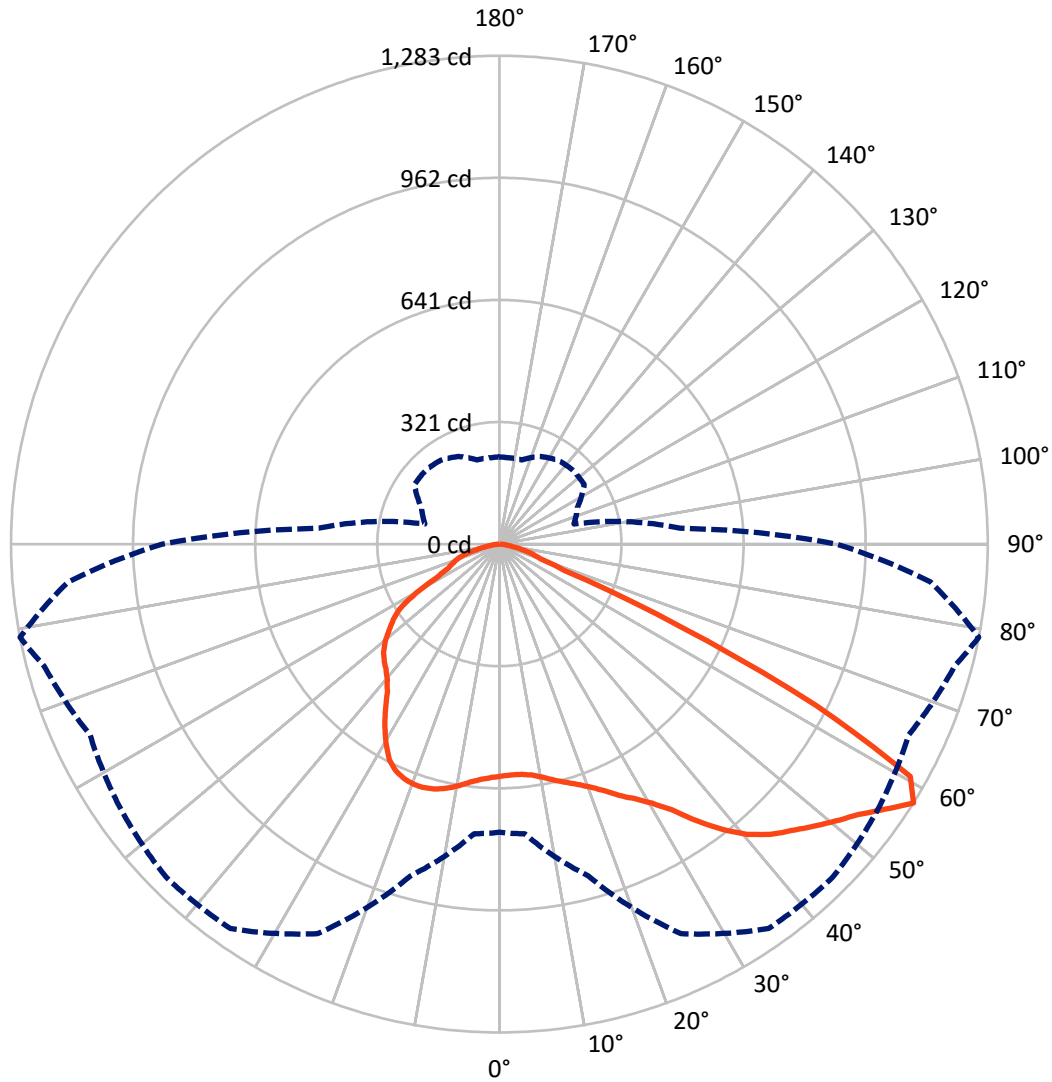
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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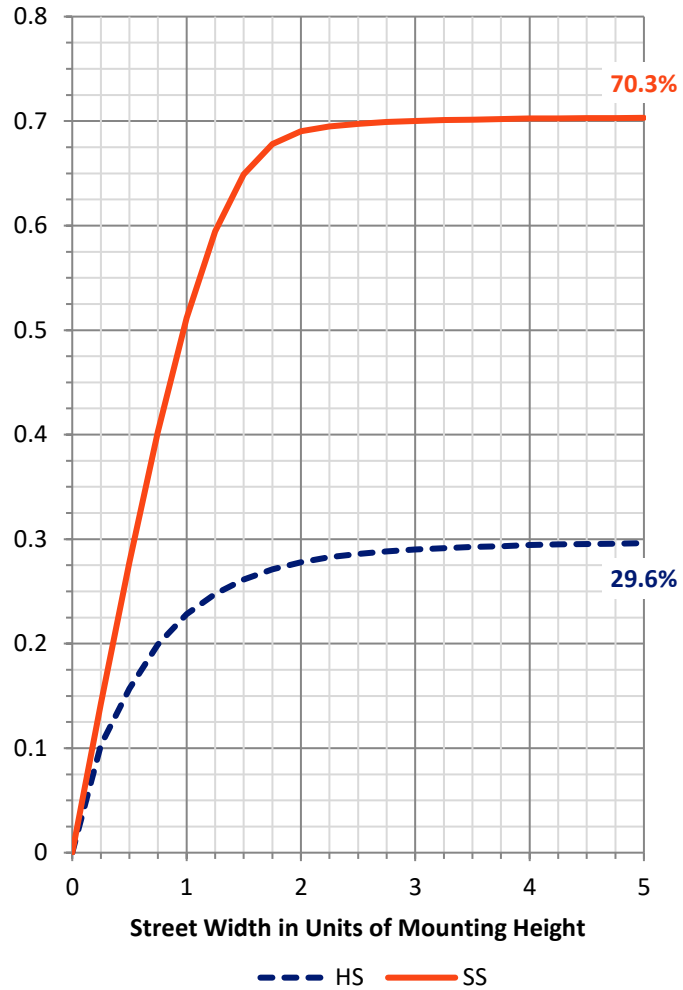
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	731.0	0.0	731.0
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	1728.1	0.0	1728.1
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	2459.1	0.0	2459.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.4	2.3
10°-20°	156.8	6.4
20°-30°	265.9	10.8
30°-40°	406.9	16.5
40°-50°	542.6	22.1
50°-60°	626.6	25.5
60°-70°	325.6	13.2
70°-80°	69.2	2.8
80°-90°	9.0	0.4
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°	2459.1	100.0
0°-180°	2459.1	100.0

**Coefficient of Utilization**



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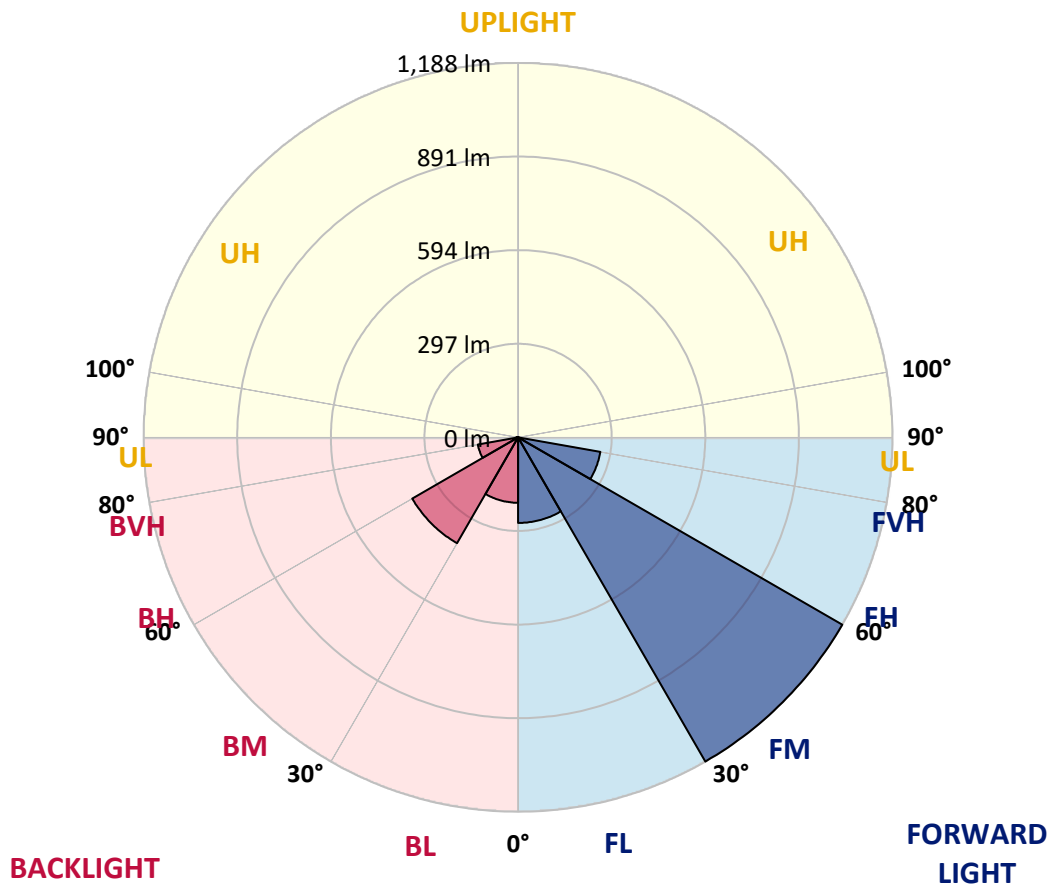
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	271.5	11.0			
FM (30°-60°)	1188.3	48.3			
FH (60°-80°)	265.2	10.8			G0/660
FVH (80°-90°)	3.1	0.1			G0/10
BL (0°-30°)	207.6	8.4	B1/500		
BM (30°-60°)	387.8	15.8	B1/1000		
BH (60°-80°)	129.7	5.3	B1/500		G1/500
BVH (80°-90°)	5.8	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	609.4	609.4	609.4	609.4	609.4	609.4	609.4	609.4	609.4	609.4	609.4
2.5°	581.7	580.5	580.9	582.5	588.5	592.9	597.6	601.8	605.8	607.0	608.0
5°	561.0	558.8	559.4	562.0	569.0	576.4	584.7	594.7	604.4	607.6	611.8
7.5°	546.3	545.9	546.9	550.9	558.4	565.4	576.0	590.3	607.0	612.4	619.9
10°	526.8	526.0	530.0	538.2	550.5	561.8	574.4	591.3	614.6	622.7	634.2
12.5°	511.3	510.9	515.1	526.6	542.3	560.2	577.7	596.6	624.9	636.0	650.0
15°	520.4	518.5	518.7	526.8	540.9	562.0	585.7	606.0	635.2	649.2	667.3
17.5°	546.7	543.5	541.1	542.5	550.5	572.4	598.0	618.7	647.0	663.5	685.6
20°	583.1	581.3	574.6	570.2	572.0	591.3	617.3	636.6	662.5	681.0	704.7
22.5°	631.9	627.5	618.5	611.4	606.0	621.1	645.0	661.7	684.0	703.3	728.0
25°	692.5	686.0	671.8	660.7	649.0	664.5	685.8	698.5	713.6	731.5	755.0
27.5°	754.2	748.8	732.9	718.0	703.5	713.2	738.5	745.7	744.1	757.2	777.3
30°	819.9	813.1	798.0	781.9	763.2	769.5	792.2	795.8	778.7	789.6	803.2
32.5°	889.3	882.7	869.6	850.9	829.8	832.2	838.4	841.9	825.6	831.8	842.3
35°	959.9	953.6	940.4	921.9	906.4	891.7	876.0	889.7	880.3	892.3	891.5
37.5°	1024.4	1018.2	1009.9	995.7	969.1	940.2	904.0	920.9	935.5	950.8	948.2
40°	1068.0	1063.8	1065.8	1063.6	1029.4	972.1	917.7	936.1	976.2	1002.3	1000.9
42.5°	1105.6	1101.4	1113.1	1121.5	1081.3	1001.7	924.3	942.0	1002.1	1042.9	1040.9
45°	1122.3	1121.1	1140.4	1167.2	1128.8	1033.1	941.4	954.0	1021.8	1074.1	1066.4
47.5°	1102.4	1106.7	1144.7	1189.9	1168.2	1070.3	976.4	979.6	1047.5	1107.9	1086.3
50°	1062.8	1072.1	1123.3	1190.5	1196.9	1112.3	1024.8	1016.8	1082.1	1143.8	1096.8
52.5°	1005.1	1014.8	1098.4	1185.9	1213.4	1160.9	1089.4	1077.9	1125.8	1179.8	1098.6
55°	872.6	885.7	1041.3	1175.4	1229.5	1205.2	1162.1	1138.8	1182.0	1229.3	1116.5
57.5°	757.0	763.8	902.2	1129.0	1232.7	1237.7	1214.0	1186.3	1237.9	1282.8	1136.6
60°	555.5	557.1	681.6	934.1	1134.0	1218.8	1209.8	1168.6	1211.4	1240.0	1044.5
62.5°	313.9	314.1	413.4	623.5	847.1	993.5	999.1	962.7	926.7	935.1	727.0
65°	117.8	128.9	188.8	306.4	488.4	586.5	609.8	618.3	558.4	521.2	389.9
67.5°	78.8	81.4	110.2	157.6	217.3	250.9	280.7	281.5	205.9	183.6	153.6
70°	60.1	62.7	86.7	112.8	110.2	101.7	110.0	107.0	110.6	113.6	116.8
72.5°	44.8	47.5	67.2	79.6	66.1	65.1	73.8	82.0	89.7	92.9	97.9
75°	29.8	31.8	45.2	42.6	36.6	43.2	53.9	62.1	66.6	70.4	74.2
77.5°	18.9	20.3	24.1	19.5	20.3	25.3	31.4	38.8	43.0	46.8	48.9
80°	8.6	8.4	8.2	9.2	11.5	14.9	18.9	23.3	26.5	28.1	29.4
82.5°	3.4	3.8	4.2	5.0	6.2	8.0	10.7	13.7	16.3	16.7	17.7
85°	1.4	1.6	1.8	2.2	2.8	3.6	4.4	6.2	7.8	8.4	9.0
87.5°	0.0	0.0	0.0	0.0	0.2	0.4	0.6	1.0	1.8	2.0	2.2
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°	609.4	609.4	609.4	609.4	609.4	609.4	609.4	609.4	609.4	609.4	609.4
2.5°	613.4	610.8	615.3	618.3	621.1	618.1	617.1	614.4	614.0	614.0	615.5
5°	619.1	617.3	621.9	623.7	623.5	616.9	612.8	607.6	605.0	605.0	605.4
7.5°	629.1	628.1	630.7	627.9	621.5	608.0	594.7	583.7	576.2	572.4	573.6
10°	645.8	644.6	642.4	631.9	613.4	585.5	558.4	538.2	526.2	519.3	519.7
12.5°	662.1	660.1	652.2	629.1	591.1	546.7	511.1	488.6	475.3	467.3	465.5
15°	680.0	674.8	657.9	614.6	554.7	499.2	462.0	437.7	423.4	418.6	418.4
17.5°	697.1	687.8	657.3	588.9	511.1	449.6	412.2	397.1	394.7	396.9	397.5
20°	714.4	699.5	650.6	553.3	459.2	400.1	380.8	387.0	396.1	402.1	403.5
22.5°	732.3	709.1	635.6	507.5	404.5	366.7	374.8	388.5	399.7	407.8	408.6
25°	752.4	718.2	613.0	451.4	360.7	357.5	373.4	387.9	399.9	409.2	410.8
27.5°	763.8	718.4	581.5	393.7	340.6	353.9	370.0	383.6	395.7	405.7	407.6
30°	775.1	713.0	531.4	346.8	334.8	349.6	364.1	376.8	388.3	398.1	400.3
32.5°	791.0	707.9	473.7	319.9	331.4	345.6	357.5	368.7	377.6	382.0	383.2
35°	810.7	701.5	412.4	308.2	329.1	342.4	352.9	358.9	347.4	345.0	347.6
37.5°	838.2	695.5	351.3	303.2	327.7	341.2	350.5	335.0	320.9	315.3	317.3
40°	868.0	692.1	309.8	299.2	328.3	342.4	340.4	317.5	297.2	285.3	284.9
42.5°	893.3	686.8	283.3	296.6	329.9	347.0	326.7	302.0	271.8	264.8	265.0
45°	910.4	673.6	269.2	293.8	331.4	348.0	320.3	280.7	259.2	254.7	254.5
47.5°	917.5	649.4	260.2	289.3	331.2	339.8	307.2	271.8	250.3	249.1	249.9
50°	912.8	609.8	250.9	280.7	326.3	331.2	292.1	264.0	244.3	250.9	255.8
52.5°	895.7	558.6	239.9	268.8	317.7	321.3	284.5	259.2	239.9	248.7	252.5
55°	891.3	516.9	225.8	253.3	304.8	303.8	276.5	256.8	236.9	233.4	234.0
57.5°	885.5	476.3	202.5	225.6	272.2	273.8	268.8	253.9	229.0	228.0	229.0
60°	769.3	365.1	180.6	194.6	223.6	232.2	260.2	248.7	216.3	212.1	211.9
62.5°	502.5	221.2	160.6	169.7	182.2	192.2	237.3	233.6	202.5	199.9	201.7
65°	270.2	157.6	146.2	151.6	158.4	166.1	196.6	208.1	183.0	173.7	173.9
67.5°	138.1	134.1	135.3	139.1	144.4	148.2	158.6	168.7	156.0	148.2	148.0
70°	118.2	121.4	123.3	125.5	128.9	128.3	129.3	131.1	130.1	126.3	126.1
72.5°	100.7	105.8	106.2	106.6	107.8	105.0	103.1	100.1	100.3	100.9	101.1
75°	76.6	81.4	82.6	82.0	83.2	79.6	77.2	74.2	70.6	70.0	70.4
77.5°	49.9	53.7	55.5	55.1	55.7	52.9	51.7	48.5	44.2	42.6	42.6
80°	30.2	32.4	33.8	34.2	34.8	32.8	30.8	27.9	26.1	24.3	24.3
82.5°	18.3	19.7	20.7	20.7	21.3	19.1	17.5	15.5	14.7	13.1	13.1
85°	9.2	10.3	10.7	10.5	10.1	8.2	7.6	6.6	6.2	5.4	5.4
87.5°	2.2	2.8	2.8	2.0	2.0	1.0	0.6	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)