

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: P632332

Luminaire Tested: GWS-SA2C-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632332  
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-SA2C-740-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

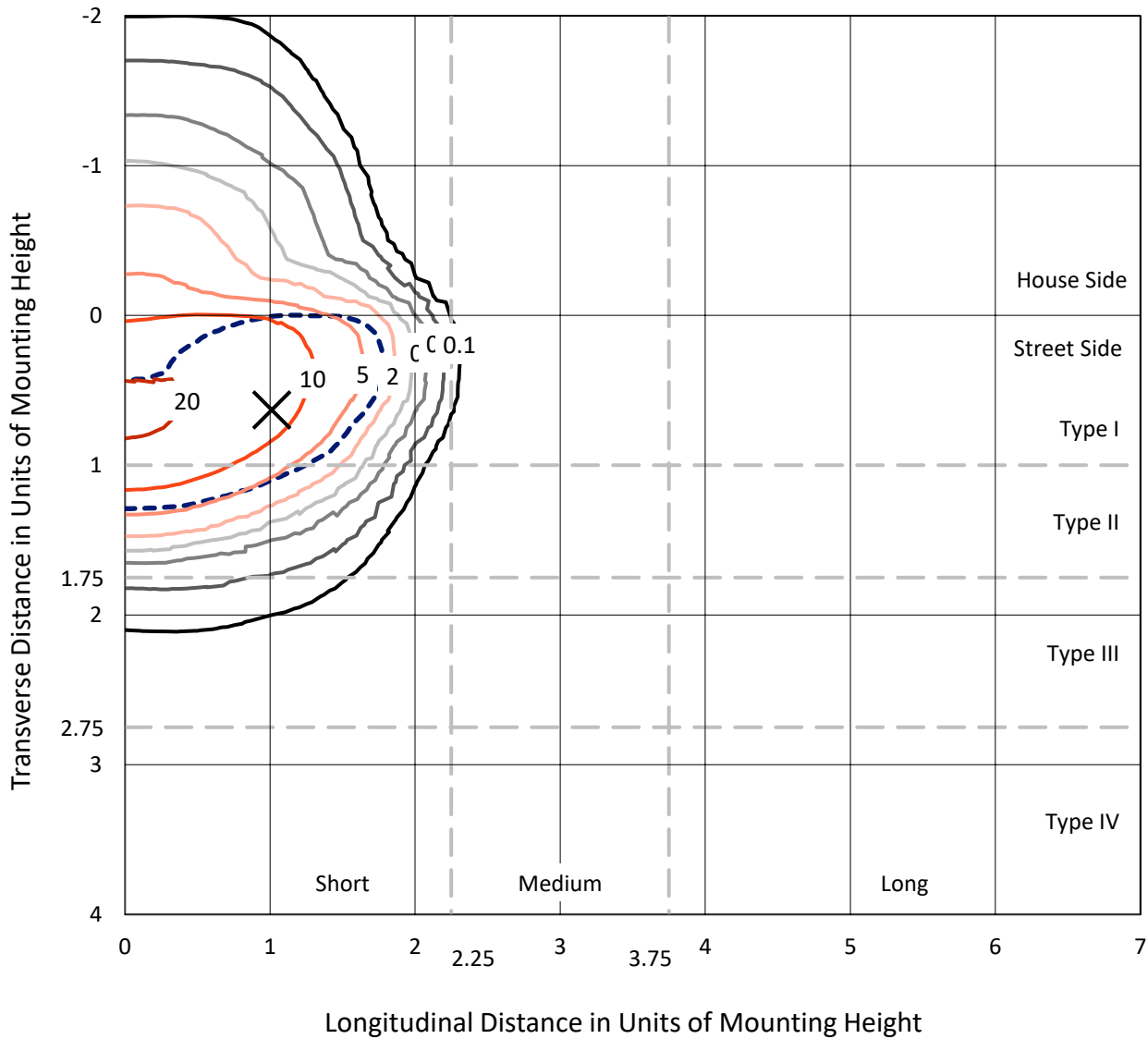
Lumens per Lamp: N/A  
Luminaire Lumens: 6204.2 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

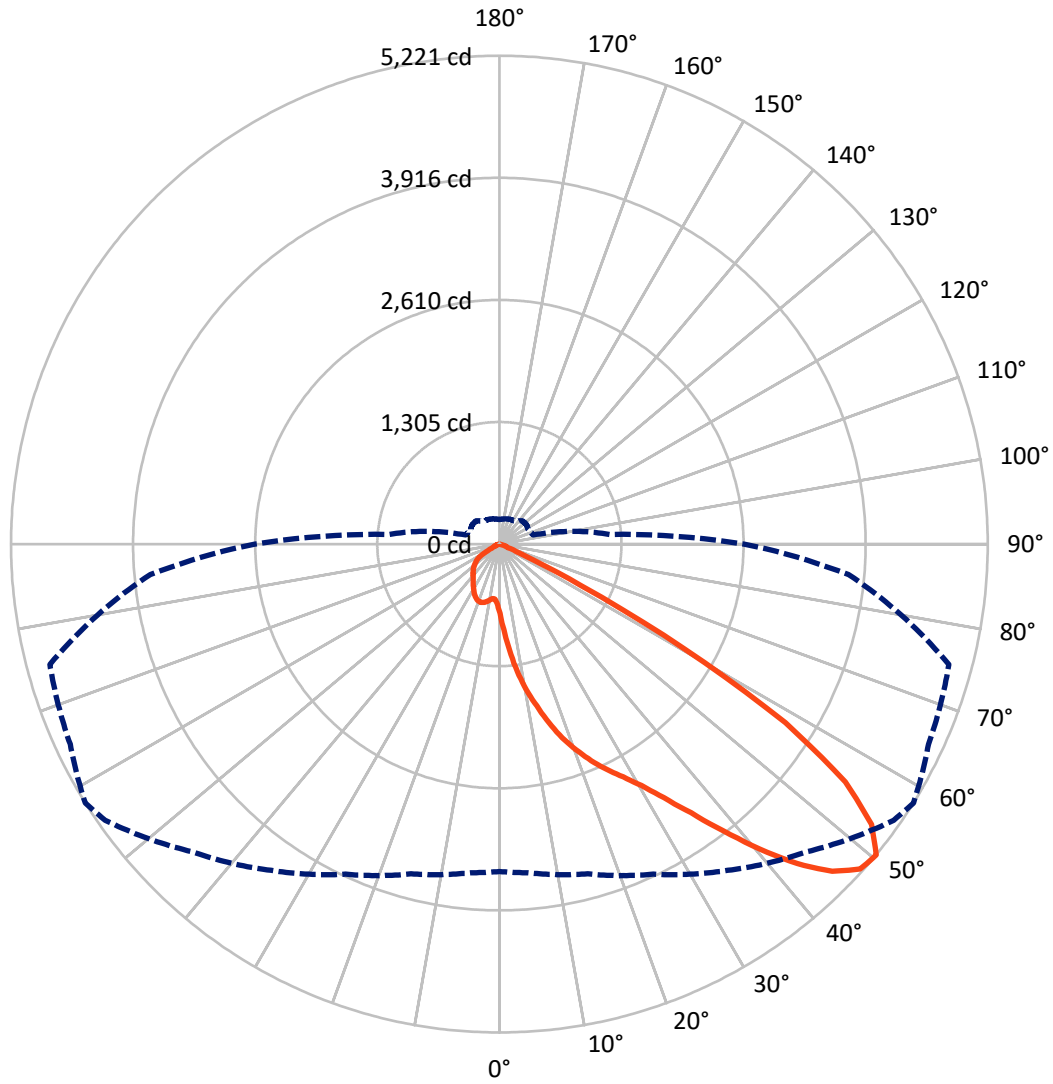
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.8 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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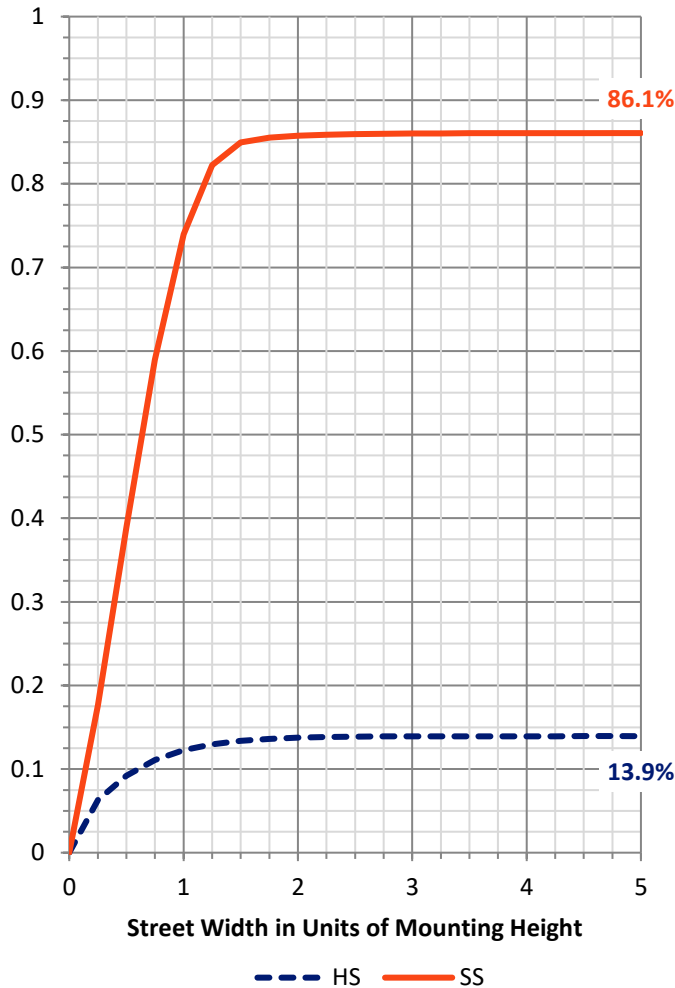
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	869.0	0.0	869.0
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	5335.2	0.0	5335.2
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	6204.2	0.0	6204.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.8	1.5
10°-20°	363.4	5.9
20°-30°	735.4	11.9
30°-40°	1301.1	21.0
40°-50°	1896.7	30.6
50°-60°	1520.3	24.5
60°-70°	273.9	4.4
70°-80°	21.6	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°	6204.2	100.0
0°-180°	6204.2	100.0

**Coefficient of Utilization**



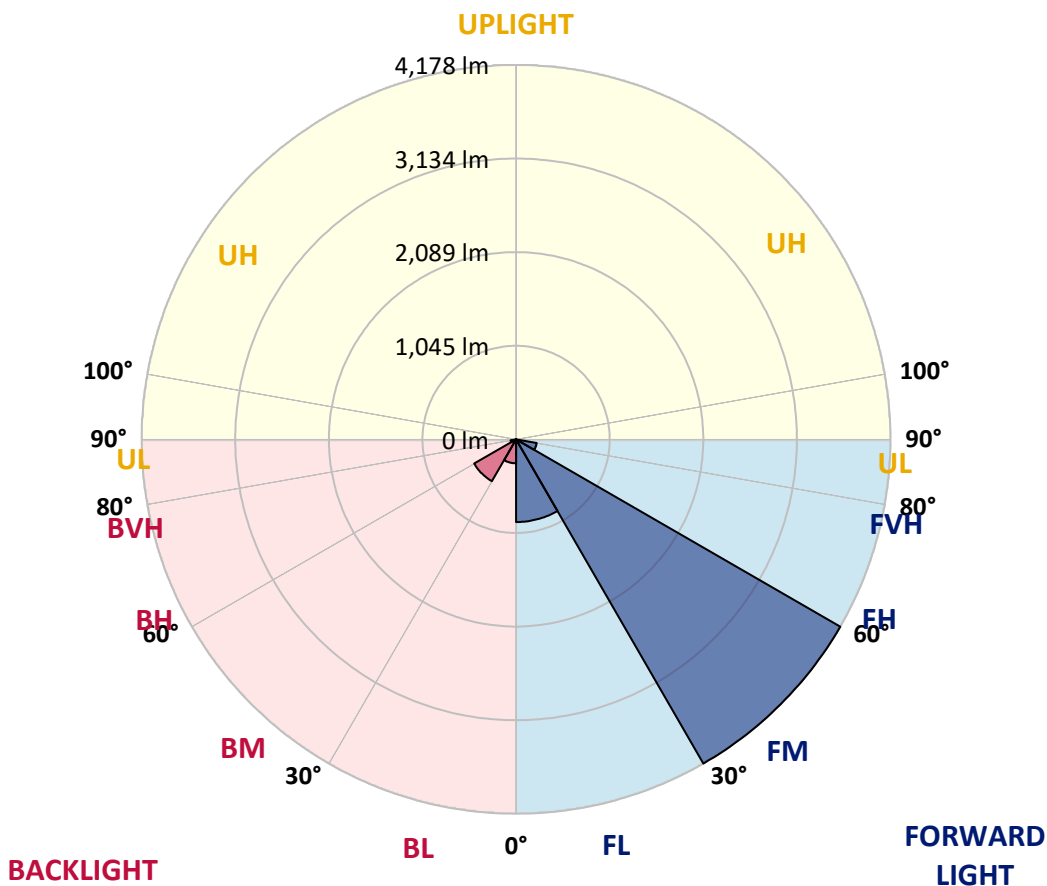
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	923.2	14.9			
FM (30°-60°)	4178.3	67.3			
FH (60°-80°)	233.7	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	267.5	4.3	B1/500		
BM (30°-60°)	539.7	8.7	B1/1000		
BH (60°-80°)	61.8	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: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1
2.5°	1096.7	1079.4	1069.5	1061.5	1026.4	970.6	934.1	914.9	883.1	829.3	782.9
5°	1431.1	1418.5	1395.2	1379.3	1334.2	1255.3	1173.7	1141.1	1068.8	947.4	838.6
7.5°	1652.7	1643.4	1634.8	1613.5	1571.1	1499.4	1409.2	1375.3	1263.9	1091.4	912.9
10°	1823.2	1815.9	1805.9	1805.3	1772.1	1707.7	1619.5	1584.3	1463.6	1248.0	1000.5
12.5°	1973.1	1967.1	1965.2	1983.7	1962.5	1914.7	1819.2	1775.4	1647.4	1407.9	1097.4
15°	2076.0	2074.6	2083.3	2119.7	2131.7	2109.8	2029.5	1982.4	1835.1	1568.4	1204.2
17.5°	2123.1	2127.0	2143.6	2206.7	2259.7	2278.3	2216.6	2176.8	2021.6	1731.0	1318.3
20°	2203.3	2202.0	2212.0	2271.7	2336.7	2403.0	2384.5	2350.6	2210.0	1902.8	1445.0
22.5°	2429.6	2410.3	2389.1	2398.4	2421.6	2499.2	2533.7	2516.5	2404.4	2079.3	1575.7
25°	2777.2	2757.3	2689.0	2622.6	2578.9	2614.0	2661.1	2669.7	2597.4	2260.4	1712.4
27.5°	3146.1	3128.2	3051.2	2951.7	2826.3	2765.3	2800.5	2817.7	2787.2	2476.0	1857.7
30°	3491.8	3467.9	3383.6	3260.2	3114.9	3021.4	2981.6	2993.5	3011.4	2731.5	2028.2
32.5°	3791.7	3773.7	3672.9	3542.9	3402.9	3305.3	3212.5	3232.4	3276.1	3043.9	2246.5
35°	4045.8	4036.5	3929.7	3800.3	3652.3	3602.6	3523.0	3526.9	3570.7	3421.4	2512.5
37.5°	4266.7	4250.8	4153.9	4033.8	3916.4	3908.4	3886.5	3888.5	3911.1	3861.3	2818.4
40°	4406.0	4391.4	4322.4	4248.1	4164.5	4165.8	4279.3	4287.9	4262.0	4293.2	3141.5
42.5°	4458.4	4447.8	4410.7	4411.3	4402.7	4441.8	4654.8	4670.7	4577.9	4632.3	3417.5
45°	4367.5	4362.9	4365.5	4461.1	4564.6	4685.3	4962.0	4989.9	4858.5	4857.2	3633.1
47.5°	4074.3	4065.0	4142.6	4305.2	4544.7	4779.5	5147.8	5190.9	5054.9	4985.9	3768.4
50°	3499.7	3526.3	3649.0	3893.2	4257.4	4650.2	5145.8	5220.7	5062.2	4974.6	3745.9
52.5°	2535.1	2529.8	2798.5	3134.2	3577.4	4236.2	4872.4	4981.9	4885.0	4863.8	3695.5
55°	1379.3	1427.8	1608.9	2053.4	2606.7	3452.6	4248.1	4487.0	4599.1	4823.3	3786.3
57.5°	506.9	528.1	641.6	956.0	1380.0	2146.9	3245.0	3605.2	3951.5	4710.5	3771.1
60°	204.3	208.3	253.4	351.6	579.9	1092.7	1946.6	2266.4	2592.8	3605.9	2894.0
62.5°	148.6	153.9	171.8	205.7	293.2	477.7	839.3	975.9	1066.8	1786.0	1425.8
65°	120.1	124.1	138.7	153.9	193.7	256.8	270.7	260.7	259.4	461.8	327.1
67.5°	99.5	103.5	114.1	124.7	139.3	128.0	92.9	97.5	79.6	79.0	64.4
70°	73.0	77.6	88.2	99.5	83.6	34.5	53.7	79.6	60.4	50.4	49.1
72.5°	55.1	58.4	68.3	65.0	24.5	13.3	35.8	57.7	46.4	37.2	36.5
75°	41.1	43.1	34.5	10.6	2.7	3.3	13.3	23.9	25.9	21.2	21.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.0	2.7	3.3	4.0
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°	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1	741.1
2.5°	756.3	728.5	688.7	655.5	630.3	605.7	587.2	568.6	567.9	558.6	556.6
5°	788.2	737.8	664.8	612.4	580.5	561.3	548.0	541.4	538.1	534.7	533.4
7.5°	834.0	761.6	660.8	605.1	578.5	565.9	556.6	552.7	550.7	548.0	547.4
10°	890.4	796.1	675.4	619.0	595.8	583.8	573.9	567.9	564.6	560.0	558.6
12.5°	958.0	838.6	698.6	642.2	617.7	601.8	588.5	579.9	575.2	569.2	567.9
15°	1031.0	884.4	724.5	663.5	634.3	613.7	597.1	583.8	575.2	567.9	565.9
17.5°	1106.6	930.8	747.7	678.1	642.2	617.7	593.8	575.9	565.3	556.0	553.3
20°	1191.6	978.6	763.0	680.7	639.6	607.1	579.2	556.6	546.0	533.4	530.8
22.5°	1280.5	1023.1	769.6	674.7	625.0	587.2	557.3	534.1	518.8	505.6	501.6
25°	1366.7	1062.9	766.3	658.1	603.1	559.3	528.8	504.9	488.3	475.0	471.7
27.5°	1458.3	1096.0	754.4	633.6	573.2	528.8	499.6	479.0	463.8	449.2	445.8
30°	1561.1	1126.5	735.1	603.7	538.1	497.6	475.0	461.1	444.5	429.3	424.6
32.5°	1685.2	1153.8	707.2	567.9	506.9	470.4	457.8	447.2	427.9	412.0	408.7
35°	1827.2	1176.3	672.1	530.8	476.4	453.1	450.5	436.6	411.3	392.8	388.8
37.5°	1991.7	1198.2	630.3	494.3	453.8	445.2	445.8	422.0	391.4	368.9	366.2
40°	2168.8	1220.1	583.8	462.4	433.2	440.5	434.6	400.7	351.0	329.1	326.4
42.5°	2353.3	1244.0	536.7	432.6	416.0	422.6	414.0	358.3	322.4	311.2	309.8
45°	2519.8	1272.5	485.7	402.7	398.7	396.7	382.2	324.4	309.2	301.2	300.5
47.5°	2639.9	1267.9	431.2	374.2	380.2	373.5	329.1	308.5	295.9	285.3	282.6
50°	2618.0	1186.9	374.9	342.3	356.3	350.3	295.9	289.9	278.7	267.4	263.4
52.5°	2562.3	1076.8	325.8	308.5	330.4	316.5	273.3	267.4	257.4	242.8	238.2
55°	2592.1	973.3	287.3	281.3	303.9	262.1	248.1	238.8	228.2	212.3	210.3
57.5°	2495.9	794.2	230.9	234.9	268.7	223.6	217.6	203.0	185.1	174.5	173.2
60°	1727.6	426.6	144.6	149.3	194.4	187.8	195.1	181.8	159.9	149.9	148.0
62.5°	793.5	171.2	79.0	75.6	102.2	127.4	167.2	165.9	138.7	122.7	121.4
65°	192.4	78.3	56.4	53.1	57.7	76.3	108.8	130.7	112.1	93.5	91.6
67.5°	62.4	63.7	51.7	48.4	51.1	57.1	65.0	72.3	71.7	65.7	64.4
70°	49.8	57.7	47.8	43.8	43.8	45.8	43.8	35.2	30.5	33.2	34.5
72.5°	37.2	43.8	37.8	33.8	32.5	31.8	27.2	19.9	13.9	12.6	11.9
75°	21.9	24.5	23.2	19.9	18.6	16.6	13.3	8.6	4.6	3.3	2.0
77.5°	4.0	4.6	5.3	4.0	3.3	2.7	2.0	0.7	0.0	0.0	0.0
80°	0.0	0.7	0.7	0.7	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)