

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: P633935

Luminaire Tested: GWS-SA2F-760-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633935  
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-SA2F-760-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

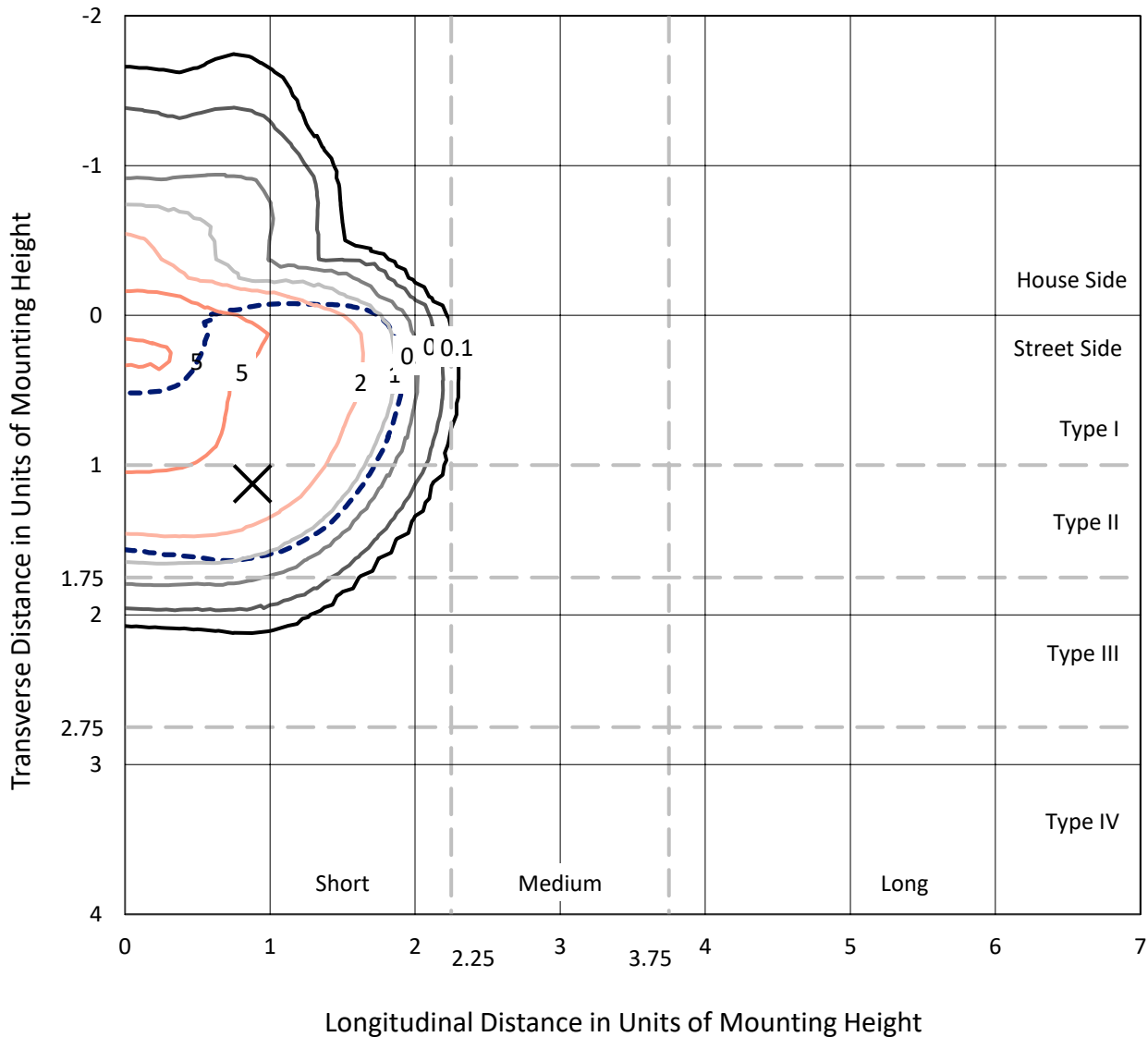
Lumens per Lamp: N/A  
Luminaire Lumens: 10265.2 lumens  
Efficiency: N/A  
Efficacy: 82.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

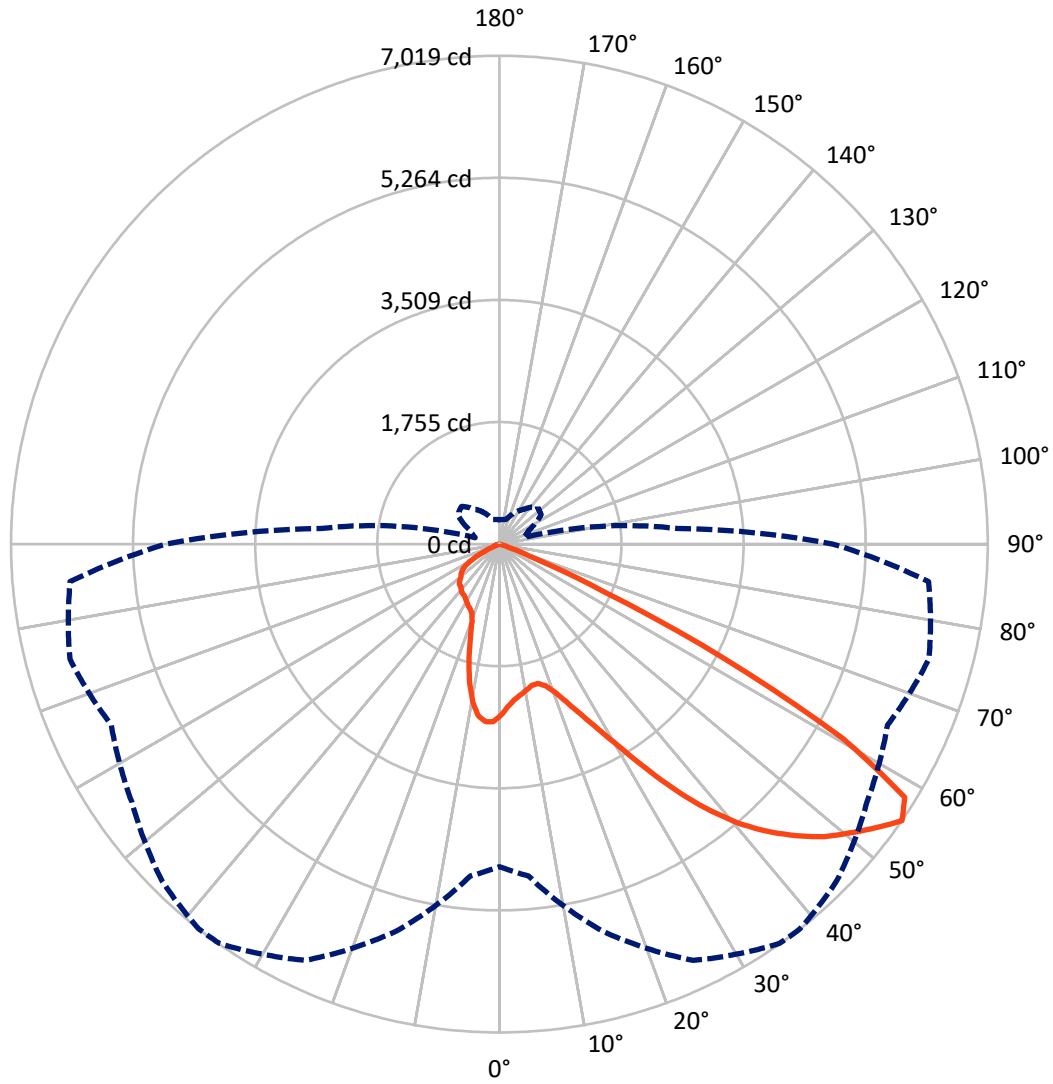
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 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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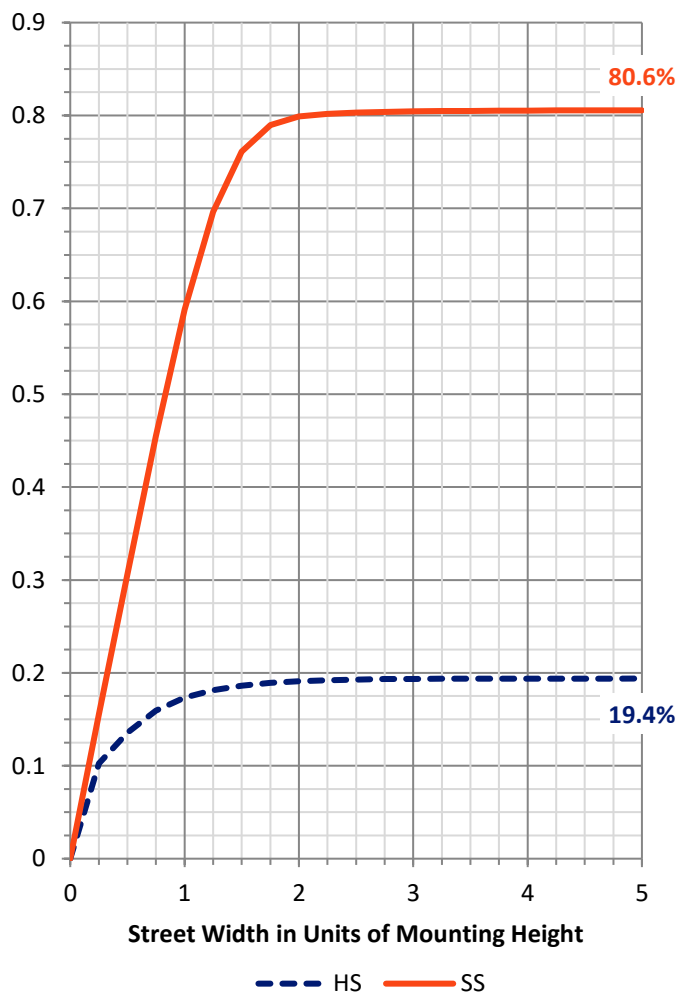
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2000.0	0.0	2000.0
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	8265.2	0.0	8265.2
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	10265.2	0.0	10265.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.6	2.2
10°-20°	612.8	6.0
20°-30°	1051.5	10.2
30°-40°	1744.1	17.0
40°-50°	2563.8	25.0
50°-60°	2995.9	29.2
60°-70°	1015.5	9.9
70°-80°	51.9	0.5
80°-90°	2.0	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°	10265.2	100.0
0°-180°	10265.2	100.0

**Coefficient of Utilization**



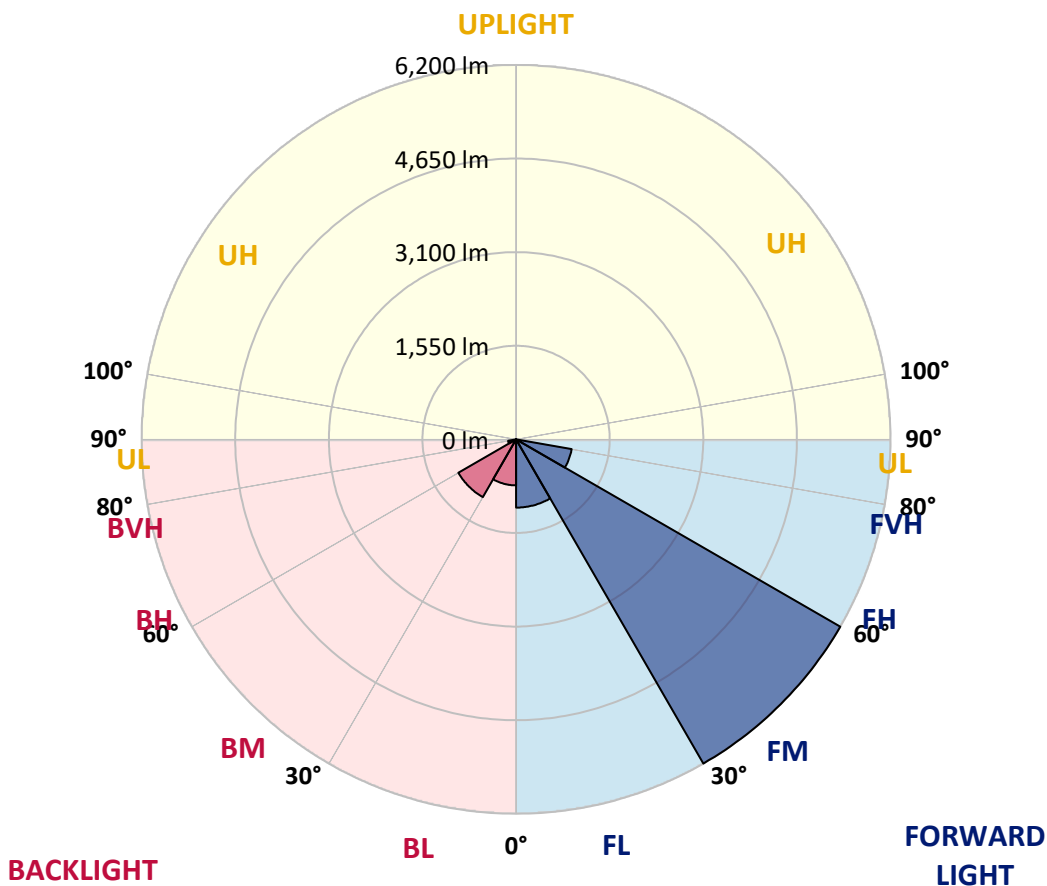
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1130.0	11.0			
FM (30°-60°)	6199.9	60.4			
FH (60°-80°)	934.3	9.1			G1/1800
FVH (80°-90°)	1.1	0.0			G0/10
BL (0°-30°)	762.0	7.4	B2/1000		
BM (30°-60°)	1103.9	10.8	B2/2500		
BH (60°-80°)	133.1	1.3	B1/500		G1/500
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7
2.5°	2292.7	2288.0	2297.4	2316.2	2333.8	2339.6	2357.2	2381.9	2397.1	2433.5	2462.8
5°	2189.5	2187.1	2196.5	2212.9	2236.4	2244.6	2271.6	2312.7	2353.7	2417.1	2479.3
7.5°	2095.6	2094.4	2108.5	2144.9	2178.9	2189.5	2222.3	2272.8	2327.9	2425.3	2516.8
10°	1972.4	1973.6	2000.5	2052.2	2114.4	2135.5	2188.3	2261.0	2332.6	2458.2	2584.9
12.5°	1932.5	1934.8	1948.9	1988.8	2056.9	2083.9	2157.8	2268.1	2359.6	2505.1	2672.9
15°	2029.9	2029.9	2018.1	2022.8	2053.4	2078.0	2155.4	2291.5	2405.4	2561.4	2759.7
17.5°	2218.8	2211.8	2182.4	2142.5	2132.0	2140.2	2202.4	2342.0	2469.9	2627.1	2858.3
20°	2474.6	2476.9	2419.4	2336.1	2269.2	2268.1	2305.6	2431.2	2562.6	2705.7	2965.0
22.5°	2784.3	2775.0	2698.7	2584.9	2468.7	2459.3	2474.6	2567.3	2696.3	2830.1	3096.5
25°	3143.4	3138.7	3030.7	2878.2	2724.5	2702.2	2702.2	2793.7	2887.6	3007.3	3253.7
27.5°	3518.9	3518.9	3414.4	3238.4	3034.3	2994.4	2988.5	3096.5	3158.6	3182.1	3386.3
30°	3904.9	3900.2	3796.9	3616.2	3398.0	3356.9	3340.5	3420.3	3464.9	3394.5	3551.7
32.5°	4296.8	4305.0	4200.6	4032.8	3838.0	3811.0	3760.6	3760.6	3796.9	3698.4	3812.2
35°	4718.0	4715.7	4633.5	4519.7	4353.1	4322.6	4239.3	4109.0	4164.2	4120.8	4172.4
37.5°	5090.0	5107.6	5067.7	4983.2	4848.3	4817.7	4680.5	4444.6	4486.9	4554.9	4600.7
40°	5467.8	5481.9	5521.8	5494.8	5324.6	5268.3	5024.3	4637.1	4684.0	4917.5	5048.9
42.5°	5838.6	5845.6	5926.6	5971.1	5743.5	5645.0	5284.7	4754.4	4803.7	5201.4	5431.4
45°	6074.4	6089.7	6223.4	6359.5	6113.1	5978.2	5511.2	4904.6	4925.7	5398.6	5714.2
47.5°	6065.0	6100.2	6351.3	6598.9	6431.1	6285.6	5783.4	5145.1	5109.9	5583.9	5900.7
50°	5876.1	5918.3	6278.6	6671.6	6659.9	6525.0	6086.1	5493.6	5383.3	5748.2	5924.2
52.5°	5484.2	5606.2	6150.7	6681.0	6844.1	6776.1	6460.4	5962.9	5752.9	5984.0	5961.8
55°	4637.1	4787.2	5762.3	6601.2	7010.7	7018.9	6853.5	6452.2	6154.2	6390.0	6192.9
57.5°	3520.0	3639.7	4435.2	5876.1	6735.0	6869.9	7006.0	6710.3	6401.8	6666.9	6246.9
60°	2121.4	2259.9	2777.3	4312.0	5439.6	5669.6	6203.5	6146.0	5774.0	5887.8	5122.8
62.5°	860.1	932.8	1282.5	2376.0	3423.8	3638.5	4150.1	4236.9	4145.4	4029.3	3107.0
65°	314.5	343.8	513.9	982.1	1574.6	1653.2	1923.1	2076.8	2203.5	1876.2	1155.7
67.5°	194.8	213.5	334.4	504.5	572.6	532.7	542.1	646.5	617.2	381.3	206.5
70°	144.3	159.6	261.7	349.7	231.1	178.3	120.9	129.1	116.2	102.1	100.9
72.5°	99.7	113.8	195.9	206.5	89.2	63.4	44.6	62.2	70.4	69.2	71.6
75°	65.7	76.3	123.2	81.0	22.3	17.6	15.3	32.9	42.2	42.2	43.4
77.5°	38.7	44.6	43.4	16.4	4.7	4.7	3.5	5.9	9.4	10.6	12.9
80°	4.7	3.5	2.3	2.3	2.3	2.3	2.3	2.3	3.5	3.5	3.5
82.5°	1.2	1.2	1.2	2.3	2.3	2.3	2.3	2.3	2.3	3.5	3.5
85°	0.0	0.0	1.2	1.2	2.3	2.3	2.3	2.3	2.3	3.5	3.5
87.5°	0.0	0.0	1.2	1.2	2.3	2.3	2.3	2.3	2.3	3.5	3.5
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°	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7
2.5°	2485.1	2476.9	2511.0	2535.6	2555.5	2564.9	2552.0	2550.8	2550.8	2525.0	2518.0
5°	2514.5	2518.0	2566.1	2587.2	2590.7	2579.0	2549.7	2529.7	2518.0	2491.0	2475.8
7.5°	2570.8	2582.5	2628.3	2624.8	2593.1	2539.1	2461.7	2401.8	2363.1	2320.9	2295.1
10°	2651.8	2674.0	2702.2	2652.9	2552.0	2414.7	2255.2	2141.4	2073.3	2025.2	1995.9
12.5°	2750.3	2772.6	2763.2	2647.1	2437.0	2191.8	1986.5	1822.2	1743.6	1700.2	1669.7
15°	2850.1	2864.1	2803.1	2576.7	2234.0	1904.3	1675.5	1512.4	1416.2	1381.0	1355.2
17.5°	2952.1	2948.6	2810.2	2438.2	1963.0	1580.5	1355.2	1243.7	1216.8	1210.9	1208.5
20°	3058.9	3027.2	2782.0	2239.9	1636.8	1260.2	1132.3	1139.3	1188.6	1212.1	1216.8
22.5°	3180.9	3101.1	2711.6	1971.2	1303.6	1050.1	1063.0	1132.3	1199.2	1230.8	1235.5
25°	3311.2	3169.2	2594.3	1626.3	1027.8	965.7	1041.9	1121.7	1193.3	1232.0	1236.7
27.5°	3396.8	3185.6	2401.8	1278.9	882.4	932.8	1013.8	1090.0	1164.0	1206.2	1212.1
30°	3489.5	3178.6	2140.2	985.6	833.1	904.6	975.0	1044.3	1112.3	1159.3	1164.0
32.5°	3625.6	3173.9	1821.0	800.2	813.1	882.4	934.0	991.5	1038.4	1065.4	1061.9
35°	3804.0	3168.0	1449.1	721.6	801.4	864.8	905.8	932.8	881.2	864.8	868.3
37.5°	4032.8	3182.1	1135.8	688.8	797.9	860.1	895.3	817.8	738.0	707.5	702.8
40°	4286.2	3218.5	865.9	675.8	809.6	871.8	855.4	727.5	628.9	569.1	556.2
42.5°	4540.8	3258.4	685.2	671.2	829.6	904.6	789.7	661.8	513.9	479.9	475.2
45°	4729.7	3251.3	592.5	662.9	847.2	923.4	772.1	567.9	458.8	443.5	444.7
47.5°	4824.8	3173.9	542.1	644.2	854.2	904.6	728.6	529.2	421.2	437.7	451.7
50°	4774.3	2973.3	495.2	607.8	838.9	880.0	659.4	499.8	402.5	470.5	502.2
52.5°	4713.3	2726.8	443.5	551.5	802.6	846.0	632.4	491.6	390.7	454.1	477.6
55°	4794.3	2570.8	359.0	464.6	731.0	766.2	611.3	490.5	363.7	353.2	349.7
57.5°	4680.5	2259.9	257.0	334.4	560.9	606.6	596.1	482.2	322.7	321.5	326.2
60°	3617.4	1378.7	176.0	212.4	343.8	387.2	540.9	461.1	278.1	255.8	257.0
62.5°	2055.7	586.7	120.9	131.4	176.0	208.9	413.0	418.9	257.0	244.1	257.0
65°	715.7	210.0	93.9	88.0	97.4	111.5	237.0	323.8	233.5	211.2	213.5
67.5°	147.8	104.4	83.3	72.7	72.7	72.7	120.9	201.8	192.4	167.8	170.1
70°	93.9	89.2	72.7	62.2	59.8	55.1	69.2	111.5	132.6	122.0	123.2
72.5°	69.2	68.1	57.5	50.5	44.6	39.9	43.4	55.1	68.1	70.4	71.6
75°	42.2	43.4	37.5	31.7	28.2	24.6	25.8	25.8	25.8	23.5	25.8
77.5°	12.9	14.1	11.7	9.4	8.2	8.2	8.2	7.0	5.9	3.5	3.5
80°	3.5	3.5	3.5	3.5	3.5	2.3	2.3	1.2	1.2	0.0	0.0
82.5°	3.5	3.5	3.5	3.5	2.3	2.3	1.2	1.2	0.0	0.0	0.0
85°	3.5	3.5	3.5	3.5	2.3	2.3	1.2	1.2	0.0	0.0	0.0
87.5°	3.5	3.5	3.5	3.5	2.3	2.3	1.2	1.2	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)