

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: P638378

Luminaire Tested: GWS-SA4E-760-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638378  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-760-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

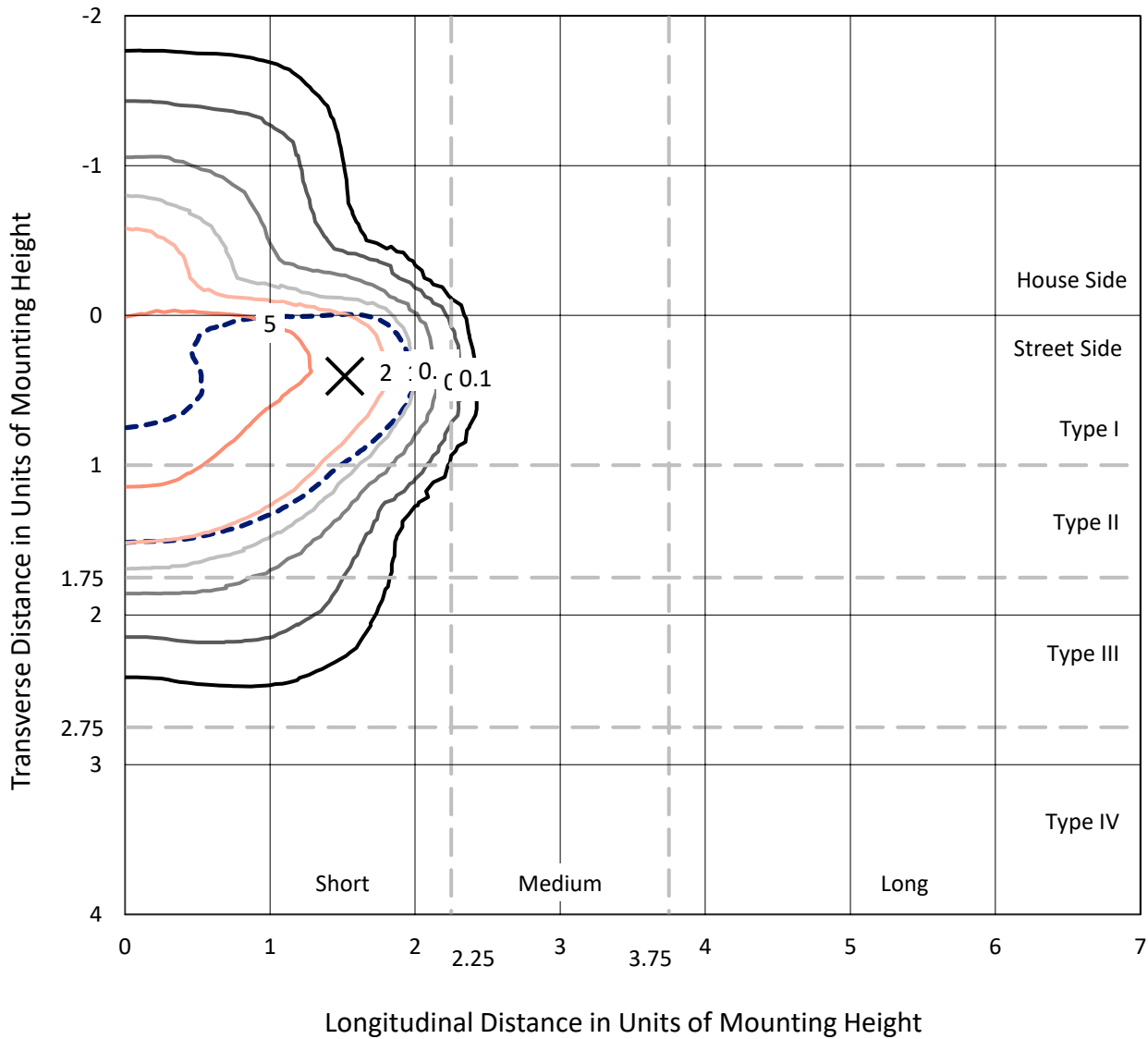
Lumens per Lamp: N/A  
Luminaire Lumens: 18339.7 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

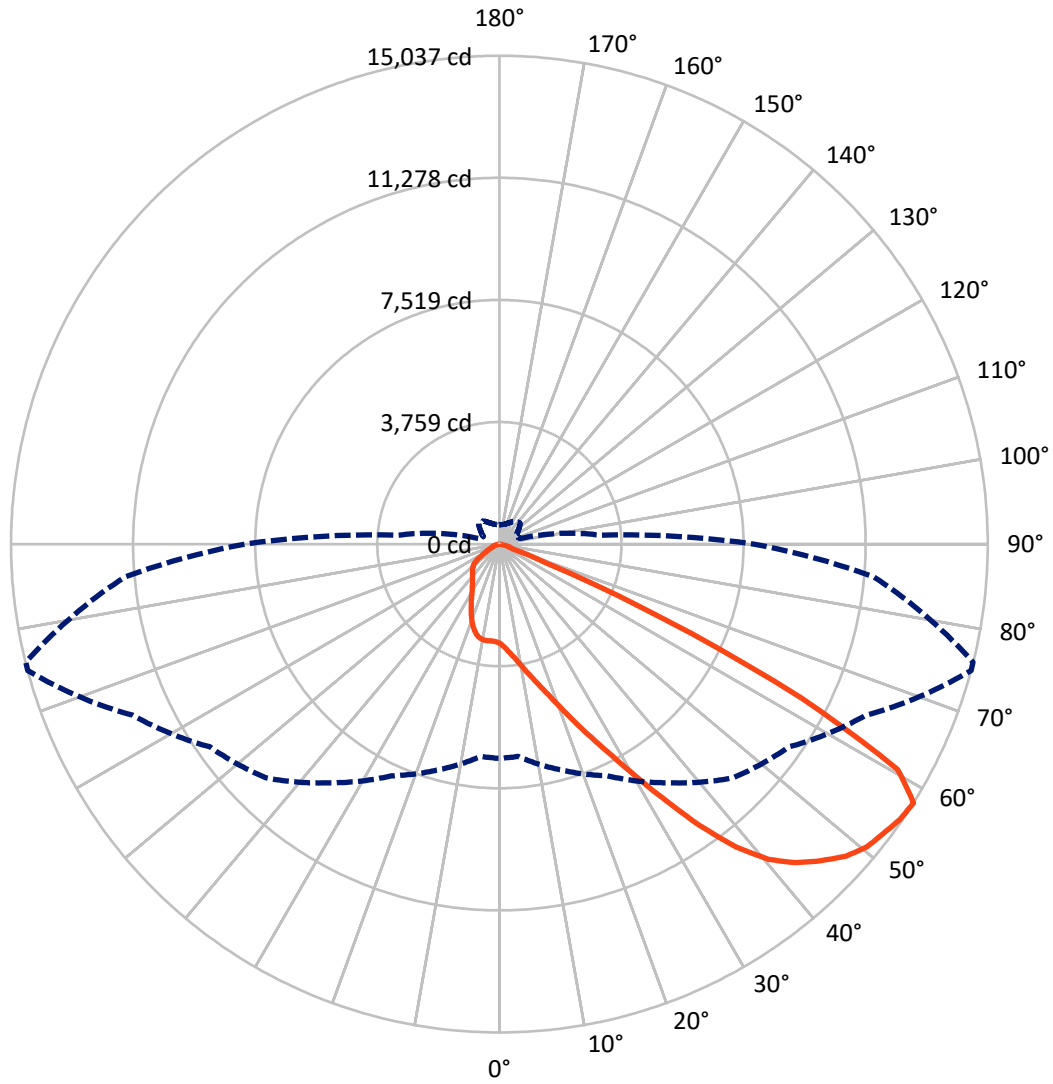
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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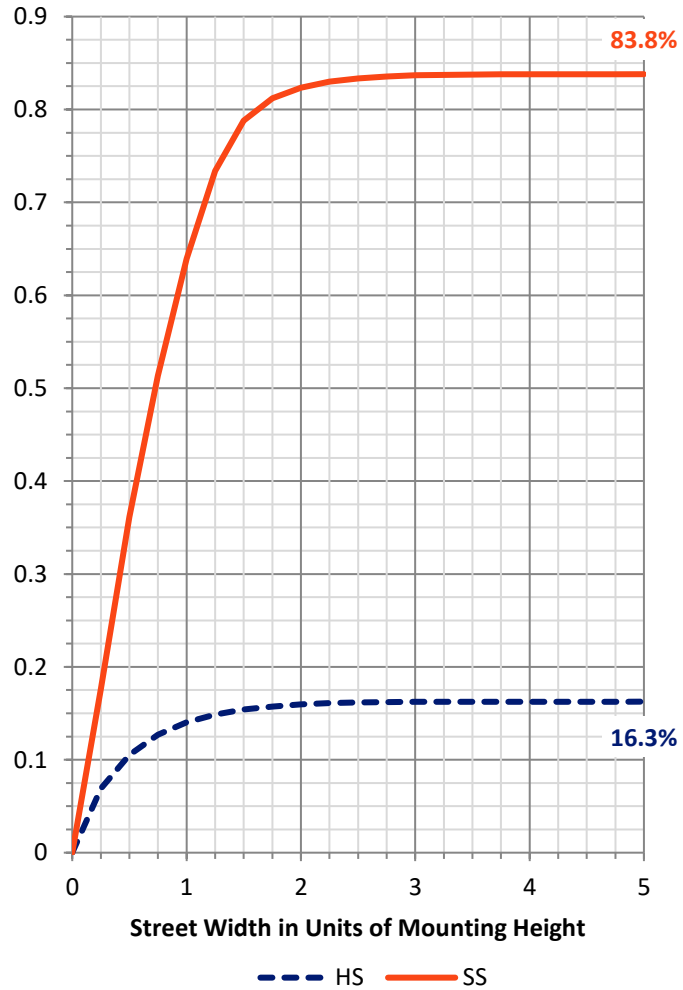
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2995.8	0.0	2995.8
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	15344.0	0.0	15344.0
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	18339.7	0.0	18339.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.3	1.7
10°-20°	1011.1	5.5
20°-30°	1851.6	10.1
30°-40°	3071.9	16.8
40°-50°	4691.6	25.6
50°-60°	5271.8	28.7
60°-70°	1944.5	10.6
70°-80°	185.9	1.0
80°-90°	0.1	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°	18339.7	100.0
0°-180°	18339.7	100.0

**Coefficient of Utilization**



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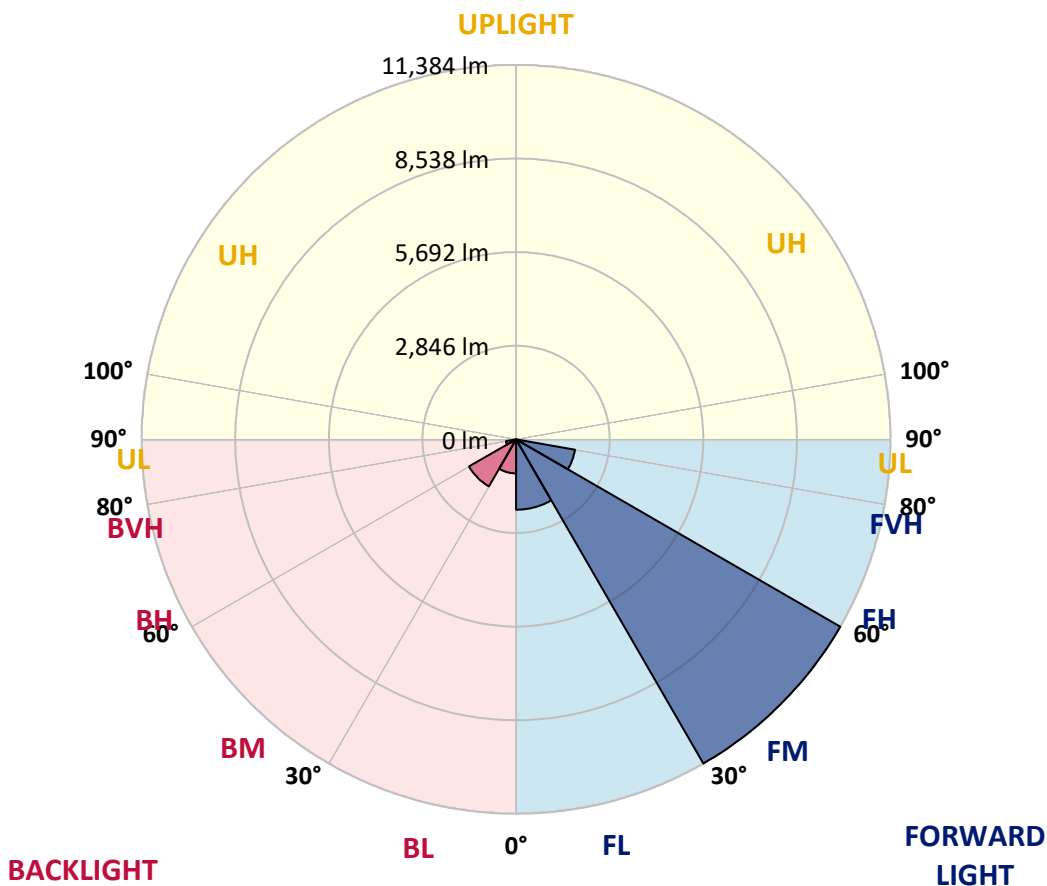
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2140.2	11.7			
FM (30°-60°)	11384.4	62.1			
FH (60°-80°)	1819.2	9.9			G2/5000
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1033.7	5.6	B3/2500		
BM (30°-60°)	1650.9	9.0	B2/2500		
BH (60°-80°)	311.1	1.7	B1/500		G1/500
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: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3058.8	3058.8	3058.8	3058.8	3058.8	3058.8	3058.8	3058.8	3058.8	3058.8	3058.8
2.5°	3417.4	3452.8	3441.7	3419.6	3406.3	3359.8	3331.0	3246.9	3187.2	3180.5	3125.2
5°	3849.0	3842.3	3833.5	3806.9	3784.8	3711.7	3625.4	3483.8	3357.6	3342.1	3224.8
7.5°	4085.8	4090.2	4094.6	4090.2	4074.7	4019.4	3924.2	3758.2	3565.7	3552.4	3366.5
10°	4183.2	4192.0	4214.2	4256.2	4293.8	4289.4	4234.1	4063.7	3826.8	3804.7	3554.6
12.5°	4229.7	4240.7	4276.1	4355.8	4457.6	4537.3	4546.2	4393.4	4132.3	4096.9	3778.1
15°	4293.8	4304.9	4349.2	4453.2	4601.5	4758.6	4860.4	4763.1	4470.9	4433.3	4023.8
17.5°	4322.6	4338.1	4402.3	4539.5	4732.1	4973.3	5203.5	5194.7	4871.5	4842.7	4309.3
20°	4377.9	4389.0	4446.6	4594.8	4827.2	5174.7	5562.1	5701.5	5360.7	5318.6	4654.6
22.5°	4552.8	4557.2	4583.8	4676.7	4893.6	5320.8	5927.3	6292.5	5938.3	5883.0	5041.9
25°	4838.3	4836.1	4847.2	4862.7	5022.0	5469.1	6279.2	6958.7	6600.1	6540.4	5480.2
27.5°	5201.3	5201.3	5227.9	5183.6	5247.8	5652.8	6626.7	7724.5	7370.4	7286.2	5960.5
30°	5628.5	5626.3	5688.2	5617.4	5637.3	5942.8	7000.7	8558.9	8299.9	8195.9	6513.8
32.5°	6208.4	6195.1	6265.9	6168.5	6102.1	6381.0	7456.7	9431.0	9413.2	9253.9	7208.8
35°	6941.0	6918.8	6941.0	6845.8	6726.3	6994.1	8054.3	10300.8	10648.3	10480.1	8036.6
37.5°	7669.1	7740.0	7764.3	7600.5	7503.2	7771.0	8773.6	11079.9	11828.0	11653.1	8897.5
40°	8527.9	8505.8	8589.9	8406.2	8344.2	8640.8	9477.4	11659.8	12762.0	12596.0	9663.4
42.5°	9160.9	9200.8	9304.8	9203.0	9154.3	9433.2	10068.4	11998.4	13410.5	13246.7	10210.0
45°	9920.1	9948.9	9988.7	9904.6	9853.7	10128.1	10495.6	12146.7	13904.1	13727.0	10577.5
47.5°	10741.2	10763.4	10763.4	10590.7	10426.9	10539.8	10781.1	12230.8	14357.8	14187.4	10849.7
50°	11330.0	11341.0	11438.4	11316.7	10960.4	10785.5	10911.7	12312.7	14658.8	14499.5	10938.2
52.5°	10807.6	10794.4	11115.3	11367.6	11462.8	11115.3	11137.4	12432.2	14804.9	14667.7	11009.0
55°	9101.2	9079.0	9530.6	10143.6	10982.5	11427.4	11409.7	12503.0	14966.5	14882.4	11265.8
57.5°	6597.9	6560.3	7188.9	7870.6	8970.6	10176.8	10885.1	12463.2	15037.3	15030.6	11564.6
60°	3966.3	3935.3	4528.5	5245.6	6095.5	7308.4	8483.7	11164.0	14090.0	14103.3	10787.7
62.5°	2441.3	2470.1	3005.7	3370.9	3687.4	4052.6	4732.1	7509.8	10438.0	10524.3	7580.6
65°	1642.3	1664.4	2160.2	2620.6	2620.6	2142.5	1839.3	3590.0	5568.7	5422.6	3585.6
67.5°	1102.2	1126.6	1518.3	2056.2	2133.6	1494.0	745.9	1071.2	1551.5	1505.1	887.5
70°	648.5	675.1	1011.5	1409.9	1553.7	1040.3	498.0	453.7	440.5	427.2	345.3
72.5°	289.9	301.0	515.7	717.1	655.1	438.2	351.9	363.0	343.1	336.4	281.1
75°	88.5	93.0	132.8	154.9	157.1	157.1	212.5	285.5	270.0	272.2	216.9
77.5°	22.1	22.1	35.4	33.2	17.7	15.5	39.8	64.2	66.4	59.8	44.3
80°	0.0	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2
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°	3058.8	3058.8	3058.8	3058.8	3058.8	3058.8	3058.8	3058.8	3058.8	3058.8	3058.8
2.5°	3100.9	3043.3	3005.7	2952.6	2914.9	2875.1	2839.7	2810.9	2795.4	2791.0	2793.2
5°	3171.7	3080.9	2992.4	2890.6	2819.8	2753.4	2700.2	2658.2	2638.3	2631.6	2631.6
7.5°	3280.1	3154.0	2996.8	2837.5	2718.0	2613.9	2552.0	2505.5	2487.8	2483.3	2470.1
10°	3421.8	3249.2	2990.2	2742.3	2574.1	2465.6	2421.4	2408.1	2414.7	2416.9	2414.7
12.5°	3592.2	3348.8	2948.1	2602.9	2421.4	2355.0	2359.4	2394.8	2434.7	2454.6	2459.0
15°	3773.7	3439.5	2853.0	2436.9	2290.8	2288.6	2352.8	2434.7	2512.1	2545.3	2554.2
17.5°	3977.3	3512.5	2706.9	2259.8	2177.9	2242.1	2357.2	2483.3	2587.4	2642.7	2653.8
20°	4200.9	3572.3	2521.0	2093.8	2078.3	2193.4	2352.8	2507.7	2636.1	2698.0	2709.1
22.5°	4433.3	3614.3	2306.3	1941.1	1987.6	2138.1	2310.7	2461.2	2582.9	2653.8	2662.6
25°	4698.9	3618.8	2087.2	1812.7	1903.5	2062.8	2208.9	2332.8	2434.7	2496.6	2503.3
27.5°	4931.3	3565.7	1892.4	1708.7	1826.0	1969.9	2067.2	2135.9	2206.7	2242.1	2244.3
30°	5199.1	3472.7	1708.7	1624.6	1746.3	1854.8	1903.5	1918.9	1925.6	1932.2	1923.4
32.5°	5517.8	3359.8	1571.5	1542.7	1655.6	1728.6	1741.9	1710.9	1673.3	1620.1	1606.9
35°	5909.6	3258.0	1458.6	1463.0	1556.0	1600.2	1589.2	1522.8	1449.7	1385.5	1374.5
37.5°	6334.5	3171.7	1372.3	1385.5	1447.5	1478.5	1445.3	1372.3	1339.1	1283.7	1285.9
40°	6710.8	3100.9	1294.8	1308.1	1336.8	1365.6	1312.5	1263.8	1325.8	1321.4	1325.8
42.5°	6978.6	3041.1	1228.4	1221.8	1241.7	1261.6	1221.8	1197.4	1301.4	1272.7	1288.2
45°	7135.7	2985.8	1173.1	1133.2	1164.2	1199.6	1173.1	1142.1	1177.5	1044.7	1033.6
47.5°	7242.0	2954.8	1124.4	1046.9	1102.2	1164.2	1108.9	1033.6	982.7	867.6	858.8
50°	7253.0	2939.3	1066.8	958.4	1029.2	1095.6	1031.4	927.4	854.3	803.4	796.8
52.5°	7310.6	2970.3	987.1	845.5	923.0	1029.2	984.9	880.9	781.3	737.0	728.2
55°	7567.3	3100.9	854.3	690.6	803.4	978.3	947.3	785.7	690.6	664.0	657.4
57.5°	7832.9	3127.4	672.8	546.7	699.4	905.2	865.4	723.8	630.8	599.8	593.2
60°	7162.3	2576.3	504.6	451.5	617.5	836.6	801.2	686.1	577.7	540.0	533.4
62.5°	4705.5	1392.2	400.6	382.9	520.1	708.3	730.4	619.7	515.7	475.9	473.7
65°	2169.1	646.3	307.7	303.2	407.3	564.4	628.6	542.3	436.0	400.6	400.6
67.5°	591.0	320.9	241.3	223.5	276.7	378.5	458.2	405.0	309.9	267.8	265.6
70°	294.4	259.0	216.9	192.6	199.2	234.6	270.0	225.8	157.1	128.4	126.2
72.5°	241.3	212.5	183.7	163.8	150.5	143.9	139.4	112.9	73.0	55.3	53.1
75°	179.3	152.7	130.6	106.2	90.7	84.1	75.3	55.3	31.0	17.7	15.5
77.5°	39.8	37.6	35.4	26.6	24.3	19.9	15.5	11.1	4.4	0.0	0.0
80°	2.2	2.2	2.2	2.2	2.2	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)