

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: P642174

Luminaire Tested: GWS-SA6C-735-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642174  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6C-735-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

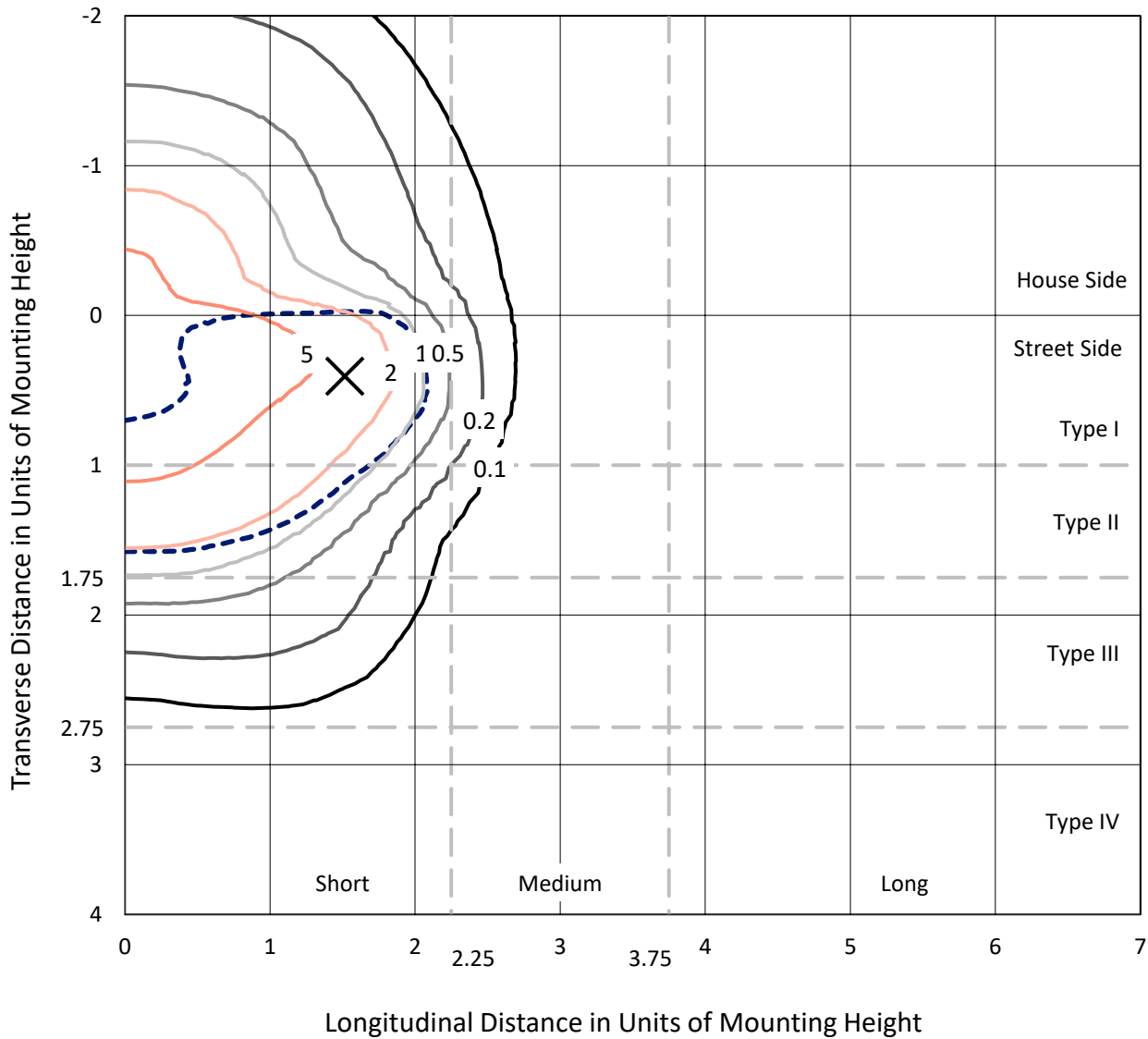
Lumens per Lamp: N/A  
Luminaire Lumens: 23348.8 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

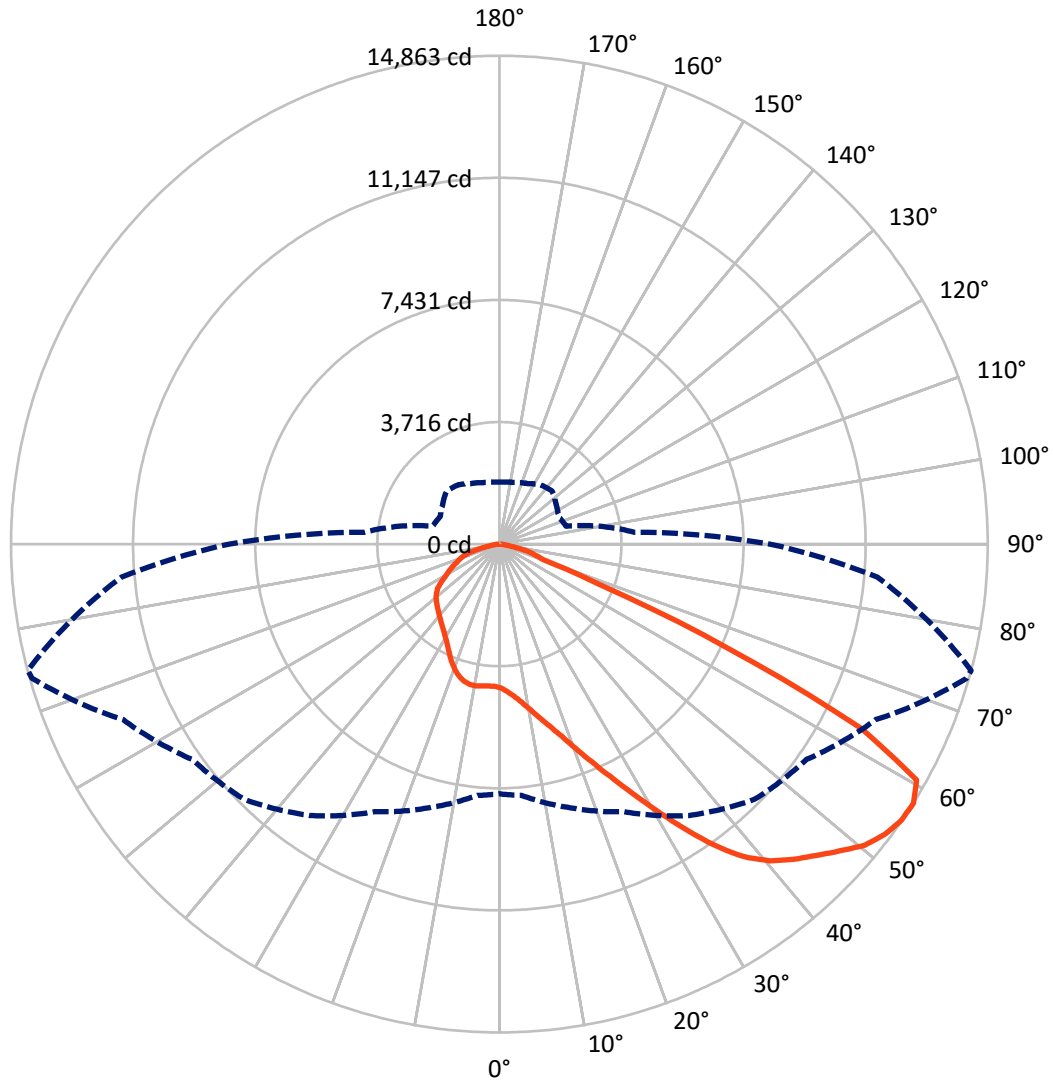
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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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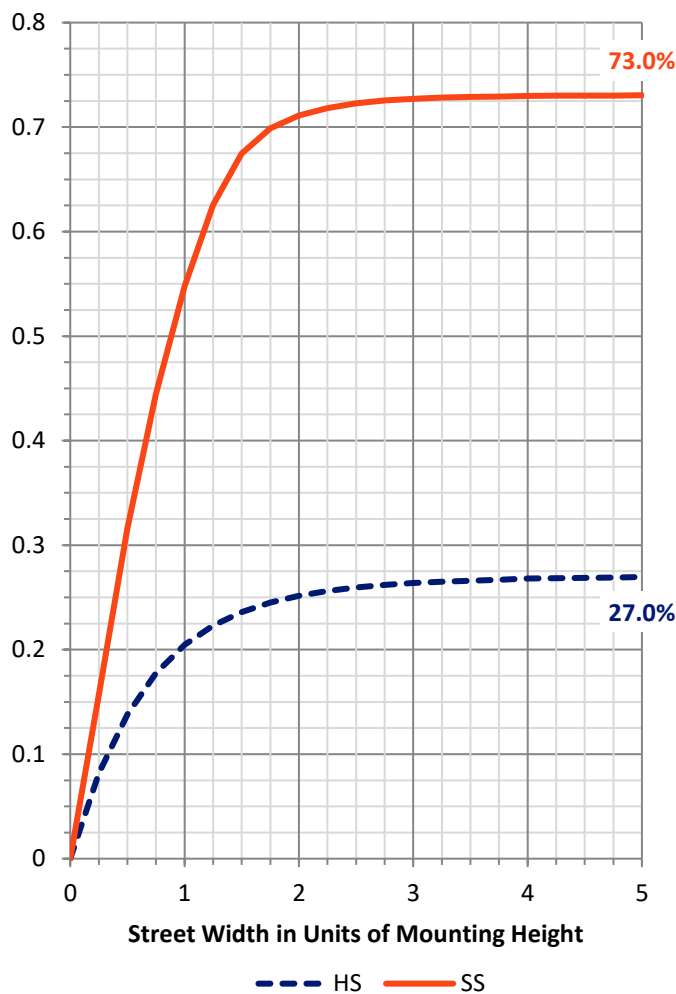
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6316.3	0.0	6316.3
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	17032.5	0.0	17032.5
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	23348.8	0.0	23348.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	437.6	1.9
10°-20°	1393.1	6.0
20°-30°	2470.7	10.6
30°-40°	3782.2	16.2
40°-50°	5266.4	22.6
50°-60°	6034.3	25.8
60°-70°	3100.5	13.3
70°-80°	780.6	3.3
80°-90°	83.4	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°	23348.8	100.0
0°-180°	23348.8	100.0

**Coefficient of Utilization**

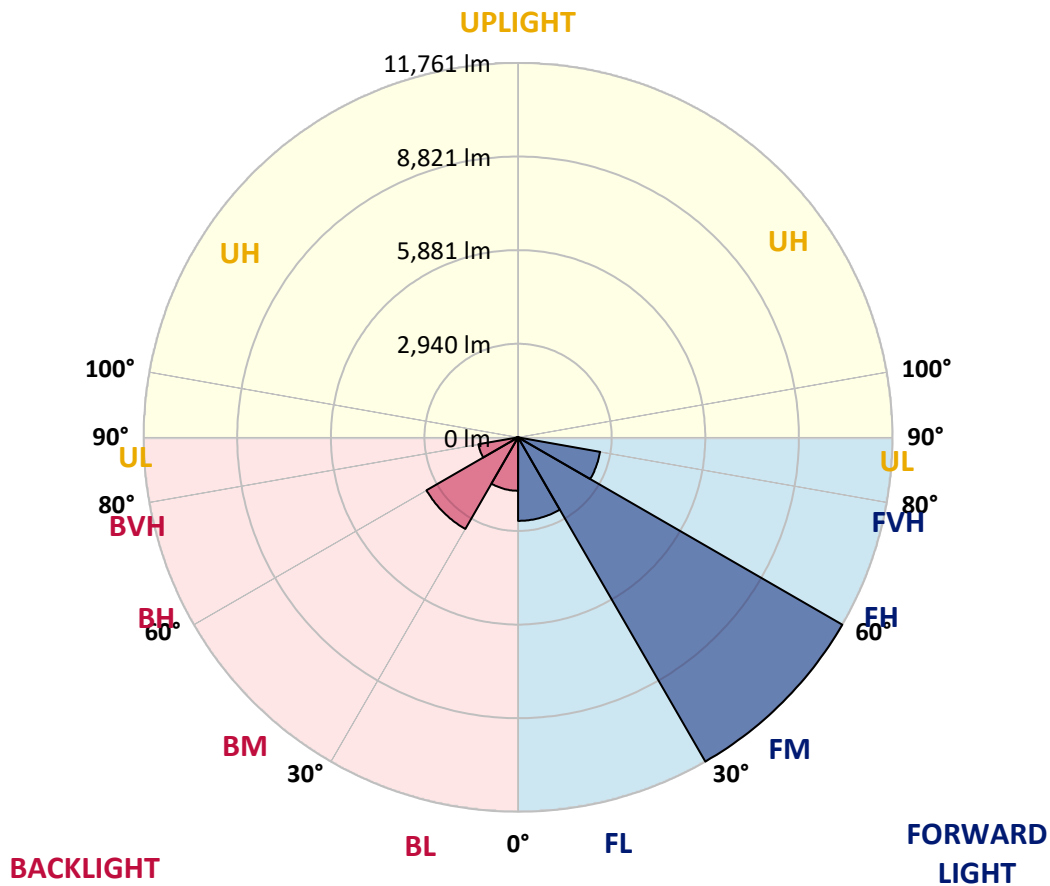


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2623.4	11.2			
FM (30°-60°)	11761.1	50.4			
FH (60°-80°)	2617.2	11.2			G2/5000
FVH (80°-90°)	30.9	0.1			G1/100
BL (0°-30°)	1678.0	7.2	B3/2500		
BM (30°-60°)	3321.8	14.2	B3/5000		
BH (60°-80°)	1263.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	52.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7
2.5°	4697.9	4710.0	4697.9	4718.0	4677.8	4659.8	4615.6	4549.3	4497.1	4489.1	4430.9
5°	5063.3	5089.4	5073.3	5065.3	5011.1	4971.0	4904.7	4772.2	4663.8	4647.7	4533.3
7.5°	5298.2	5316.3	5316.3	5322.3	5302.2	5256.0	5185.8	5029.2	4876.6	4852.5	4679.8
10°	5376.5	5390.6	5416.6	5466.8	5507.0	5521.0	5474.9	5324.3	5137.6	5113.5	4872.6
12.5°	5394.6	5410.6	5450.8	5543.1	5653.6	5753.9	5762.0	5651.5	5442.7	5416.6	5095.4
15°	5428.7	5444.8	5499.0	5613.4	5776.0	5968.8	6087.2	6010.9	5780.0	5751.9	5348.4
17.5°	5424.7	5442.7	5523.1	5675.6	5894.5	6173.5	6402.4	6434.5	6195.6	6147.4	5635.5
20°	5414.6	5430.7	5517.0	5703.7	5974.8	6358.2	6771.8	6938.5	6681.5	6637.3	5970.8
22.5°	5494.9	5513.0	5579.3	5733.9	6016.9	6500.8	7113.1	7514.6	7257.7	7195.4	6356.2
25°	5675.6	5701.7	5741.9	5848.3	6093.2	6627.3	7462.4	8167.1	7904.1	7829.8	6775.8
27.5°	5954.7	5986.8	6043.0	6093.2	6263.9	6787.9	7809.8	8897.9	8634.9	8556.6	7219.5
30°	6296.0	6338.2	6410.4	6444.6	6561.0	7024.8	8187.2	9650.8	9498.2	9389.8	7719.4
32.5°	6767.8	6826.0	6894.3	6904.3	6974.6	7384.2	8560.6	10397.6	10395.6	10319.3	8287.6
35°	7382.1	7444.4	7458.4	7472.5	7506.6	7878.0	9012.4	11078.2	11341.2	11252.9	8906.0
37.5°	8052.7	8143.0	8165.1	8102.9	8151.1	8472.3	9520.3	11624.3	12164.4	12070.0	9504.2
40°	8769.4	8805.6	8865.8	8767.4	8827.7	9152.9	10018.2	11973.6	12778.7	12678.3	9976.0
42.5°	9283.4	9349.6	9440.0	9403.8	9438.0	9735.1	10367.5	12142.3	13216.4	13116.0	10315.3
45°	9841.5	9861.6	9919.8	9911.8	9931.9	10208.9	10618.5	12216.6	13607.9	13517.5	10604.4
47.5°	10327.4	10357.5	10395.6	10351.5	10307.3	10488.0	10823.3	12280.8	14059.6	13951.2	10907.6
50°	10795.2	10821.3	10867.4	10738.9	10574.3	10620.5	10923.6	12369.2	14483.2	14406.9	11146.5
52.5°	10881.5	10909.6	11126.4	11152.5	10941.7	10779.1	11100.3	12563.9	14732.2	14684.0	11232.8
55°	9795.3	9845.5	10277.2	10773.1	11293.1	11240.9	11383.4	12666.3	14830.5	14842.6	11387.4
57.5°	7603.0	7675.3	8305.7	8986.3	10080.4	10985.9	11419.5	12640.2	14796.4	14862.7	11546.0
60°	4987.0	5029.2	5776.0	6538.9	7673.3	8926.0	10221.0	12170.4	14493.3	14587.6	11505.9
62.5°	3011.5	3059.7	3660.0	4238.2	4906.7	5743.9	6932.4	9781.3	12148.3	12359.1	9215.1
65°	2102.0	2166.3	2692.3	3168.1	3399.0	3226.3	3511.4	5462.8	7568.9	7657.2	5631.5
67.5°	1523.8	1568.0	1999.6	2565.8	2820.8	2278.7	1736.6	2419.2	3296.6	3328.7	2322.9
70°	997.8	1048.0	1439.5	1953.4	2302.8	1847.0	1299.0	1309.0	1387.3	1403.3	1349.1
72.5°	548.1	578.2	889.4	1296.9	1361.2	1104.2	1013.9	1088.1	1142.4	1142.4	1156.4
75°	283.1	309.2	363.4	427.6	516.0	604.3	730.8	841.2	899.4	903.4	897.4
77.5°	144.6	154.6	194.7	210.8	230.9	269.0	349.3	447.7	499.9	520.0	516.0
80°	68.3	72.3	82.3	96.4	118.5	150.6	188.7	224.9	257.0	261.0	283.1
82.5°	36.1	40.2	44.2	52.2	64.2	80.3	110.4	132.5	152.6	156.6	174.7
85°	14.1	16.1	18.1	20.1	28.1	34.1	46.2	62.2	76.3	76.3	90.3
87.5°	0.0	0.0	0.0	0.0	2.0	4.0	8.0	10.0	14.1	14.1	24.1
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°	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7
2.5°	4416.8	4358.6	4332.5	4290.4	4256.2	4218.1	4188.0	4165.9	4151.8	4143.8	4135.8
5°	4489.1	4400.8	4330.5	4246.2	4188.0	4131.8	4085.6	4053.5	4037.4	4025.3	4017.3
7.5°	4601.5	4483.1	4350.6	4220.1	4117.7	4027.4	3969.1	3935.0	3912.9	3904.9	3898.9
10°	4756.1	4591.5	4372.7	4165.9	4013.3	3914.9	3874.8	3858.7	3860.7	3856.7	3854.7
12.5°	4930.8	4705.9	4366.6	4069.5	3900.9	3842.6	3844.7	3870.8	3900.9	3908.9	3910.9
15°	5119.5	4818.4	4308.4	3945.0	3812.5	3818.6	3870.8	3933.0	3989.2	4011.3	4015.3
17.5°	5324.3	4912.7	4202.0	3808.5	3740.3	3804.5	3900.9	4003.3	4085.6	4121.7	4131.8
20°	5553.2	4993.0	4051.4	3674.0	3672.0	3778.4	3918.9	4053.5	4157.9	4206.0	4214.1
22.5°	5796.1	5043.2	3866.7	3549.5	3601.7	3744.3	3904.9	4045.4	4155.8	4204.0	4214.1
25°	6041.0	5059.3	3664.0	3435.1	3529.5	3690.1	3836.6	3949.1	4053.5	4095.6	4103.6
27.5°	6269.9	5013.1	3471.2	3336.7	3463.2	3609.8	3708.1	3768.4	3840.6	3872.8	3878.8
30°	6502.8	4920.8	3308.6	3258.4	3388.9	3499.3	3543.5	3547.5	3575.6	3575.6	3579.6
32.5°	6737.7	4784.2	3166.1	3182.1	3296.6	3368.8	3374.9	3328.7	3294.6	3238.3	3236.3
35°	7008.7	4645.7	3049.6	3095.8	3188.2	3232.3	3214.3	3125.9	3043.6	2951.3	2947.2
37.5°	7259.7	4503.2	2951.3	3007.5	3065.7	3097.8	3055.6	2949.2	2881.0	2786.6	2772.6
40°	7466.5	4374.7	2856.9	2915.1	2943.2	2971.3	2903.1	2816.7	2826.8	2774.6	2772.6
42.5°	7586.9	4250.2	2768.6	2812.7	2830.8	2850.9	2790.6	2726.4	2780.6	2740.4	2742.5
45°	7675.3	4141.8	2688.2	2704.3	2748.5	2778.6	2722.4	2650.1	2662.1	2507.6	2471.4
47.5°	7775.6	4081.6	2612.0	2595.9	2674.2	2726.4	2640.1	2535.7	2463.4	2310.8	2296.8
50°	7882.0	4059.5	2531.7	2487.5	2581.8	2632.0	2531.7	2401.2	2306.8	2224.5	2216.4
52.5°	7918.2	4057.5	2431.3	2357.0	2451.3	2521.6	2437.3	2304.8	2192.4	2112.1	2108.0
55°	8060.7	4115.7	2302.8	2178.3	2266.6	2411.2	2349.0	2158.2	2067.9	2031.7	2027.7
57.5°	8227.4	4125.7	2100.0	1983.6	2106.0	2276.7	2198.4	2033.8	1935.4	1891.2	1887.2
60°	8159.1	3878.8	1883.2	1835.0	1969.5	2150.2	2077.9	1935.4	1820.9	1778.8	1774.8
62.5°	8217.7	2738.4	1724.6	1706.5	1822.9	1967.5	1953.4	1804.9	1696.5	1666.4	1662.3
65°	3740.3	1923.3	1572.0	1570.0	1652.3	1790.8	1808.9	1688.4	1574.0	1531.8	1531.8
67.5°	1849.0	1471.6	1399.3	1389.3	1441.5	1539.9	1616.2	1517.8	1421.4	1381.3	1375.2
70°	1307.0	1296.9	1272.9	1244.7	1254.8	1294.9	1327.1	1244.7	1142.4	1102.2	1094.2
72.5°	1130.3	1132.3	1116.3	1094.2	1086.1	1058.0	1029.9	969.7	907.5	865.3	869.3
75°	877.3	881.4	891.4	883.4	861.3	831.2	801.1	724.8	674.6	634.4	626.4
77.5°	512.0	532.0	564.2	556.1	560.1	518.0	505.9	431.6	385.5	357.4	351.3
80°	289.1	301.1	315.2	325.2	313.2	295.1	269.0	228.9	214.8	194.7	190.7
82.5°	174.7	186.7	192.7	200.8	196.8	172.7	152.6	126.5	114.4	104.4	102.4
85°	88.3	96.4	102.4	106.4	94.4	78.3	70.3	56.2	48.2	42.2	42.2
87.5°	22.1	24.1	28.1	24.1	22.1	10.0	8.0	2.0	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)