

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: P634761

Luminaire Tested: GWS-SA3C-735-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634761  
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-SA3C-735-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

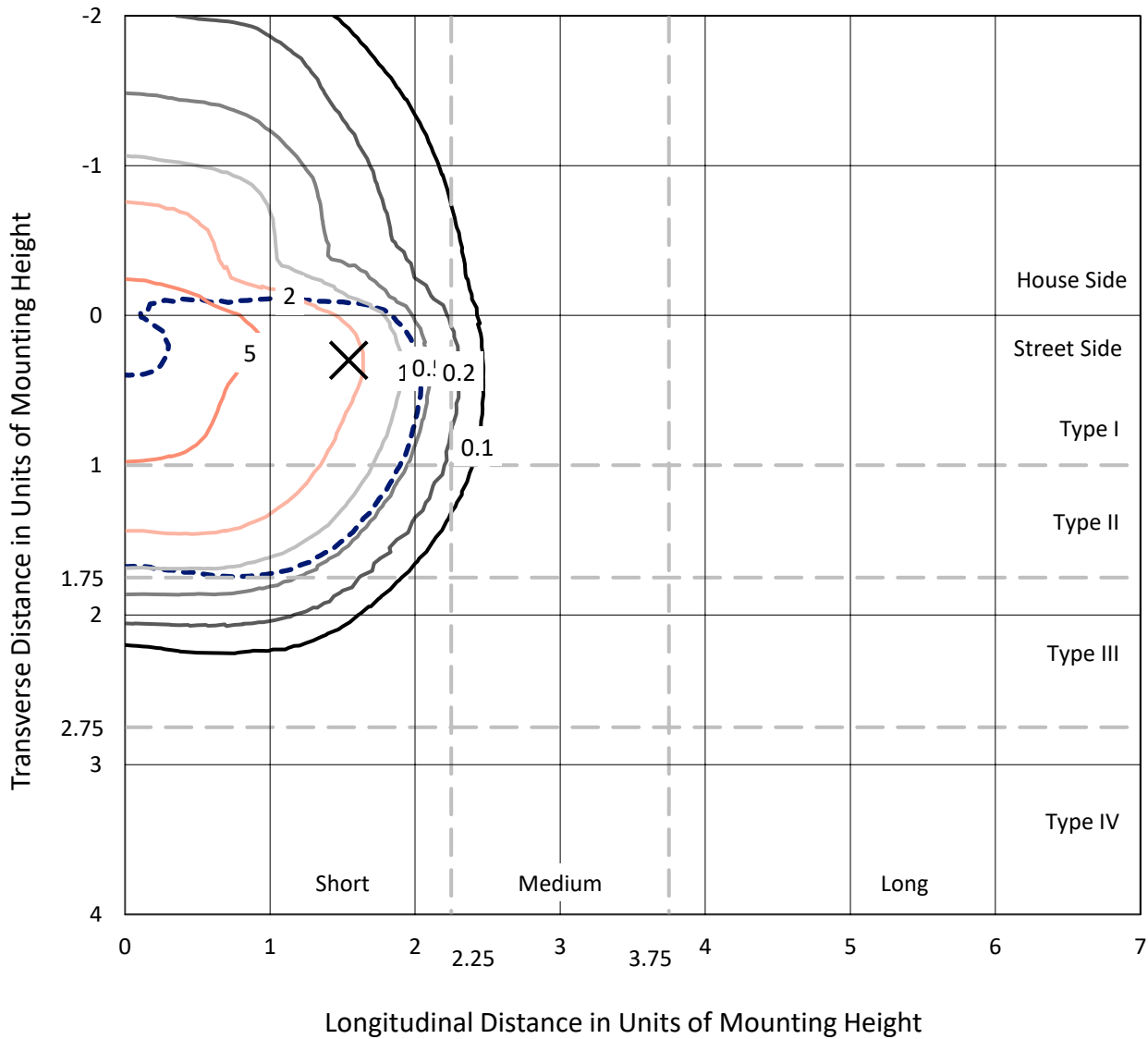
Lumens per Lamp: N/A  
Luminaire Lumens: 12062.4 lumens  
Efficiency: N/A  
Efficacy: 129.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 93  
Input Voltage (V): 120  
Input Current (Ain): 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

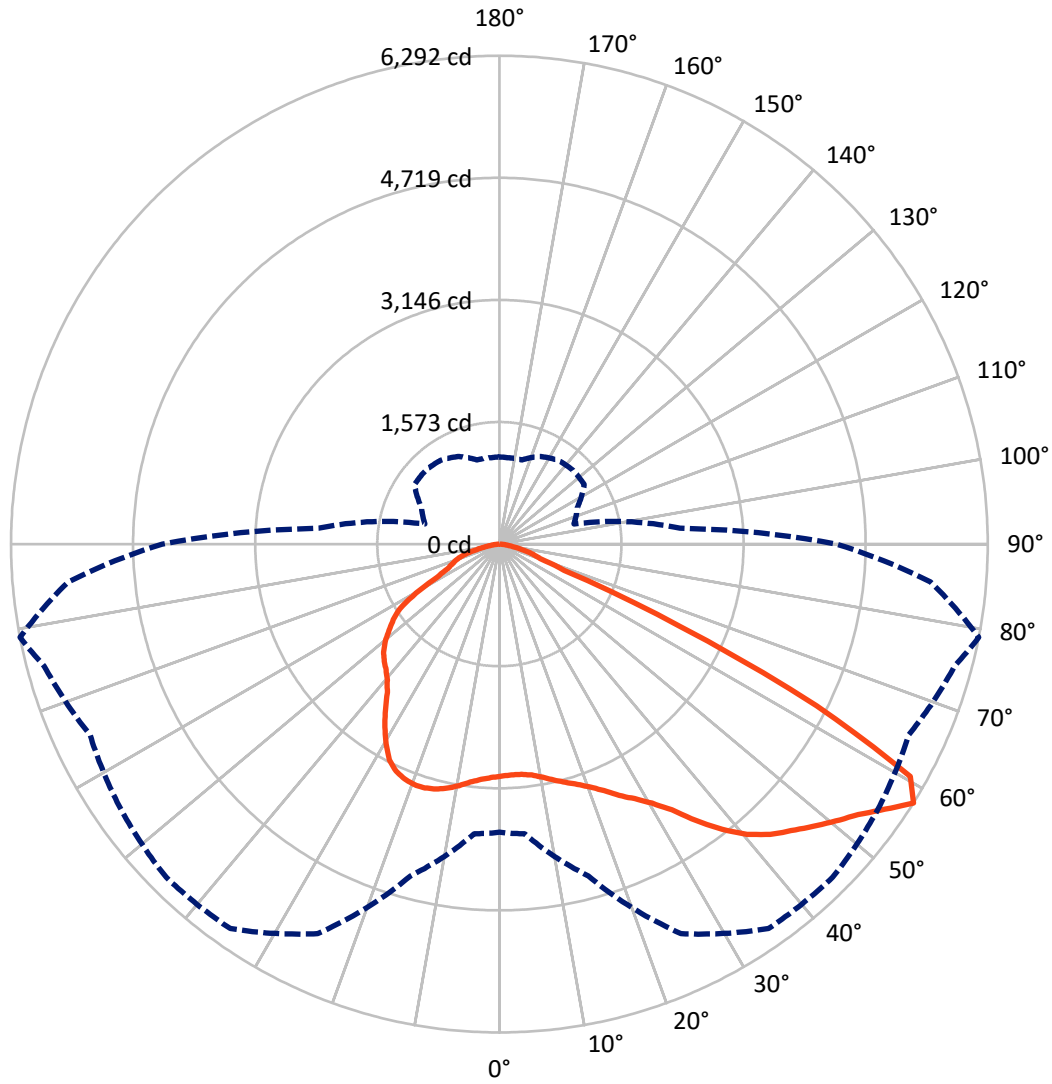
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.5 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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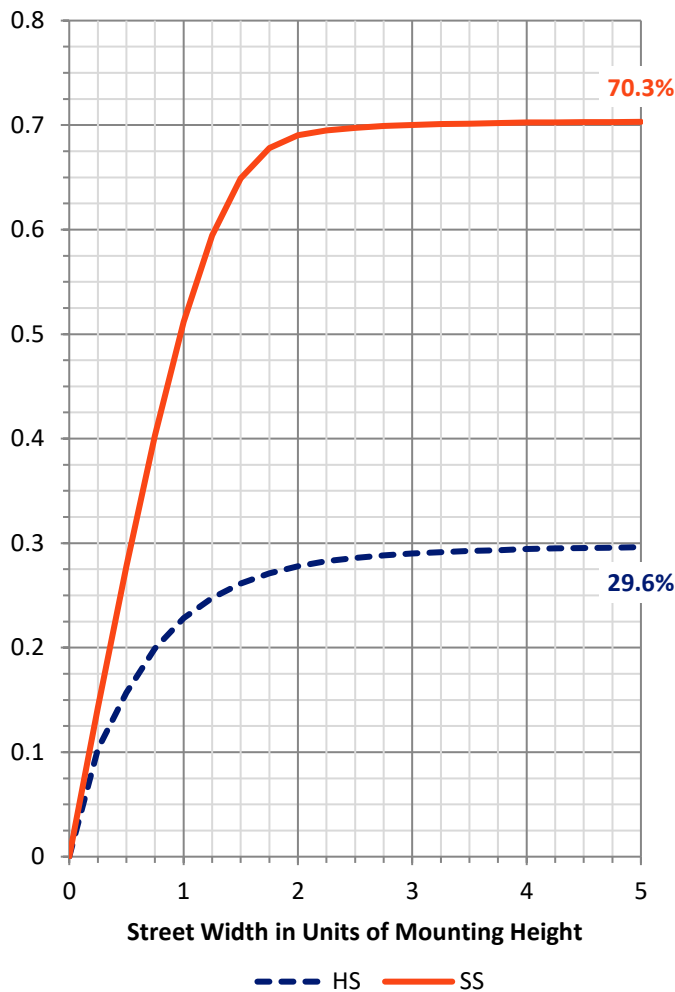
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3585.6	0.0	3585.6
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	8476.8	0.0	8476.8
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	12062.4	0.0	12062.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.8	2.3
10°-20°	769.3	6.4
20°-30°	1304.1	10.8
30°-40°	1996.0	16.5
40°-50°	2661.5	22.1
50°-60°	3073.8	25.5
60°-70°	1597.3	13.2
70°-80°	339.5	2.8
80°-90°	44.0	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°	12062.4	100.0
0°-180°	12062.4	100.0

**Coefficient of Utilization**



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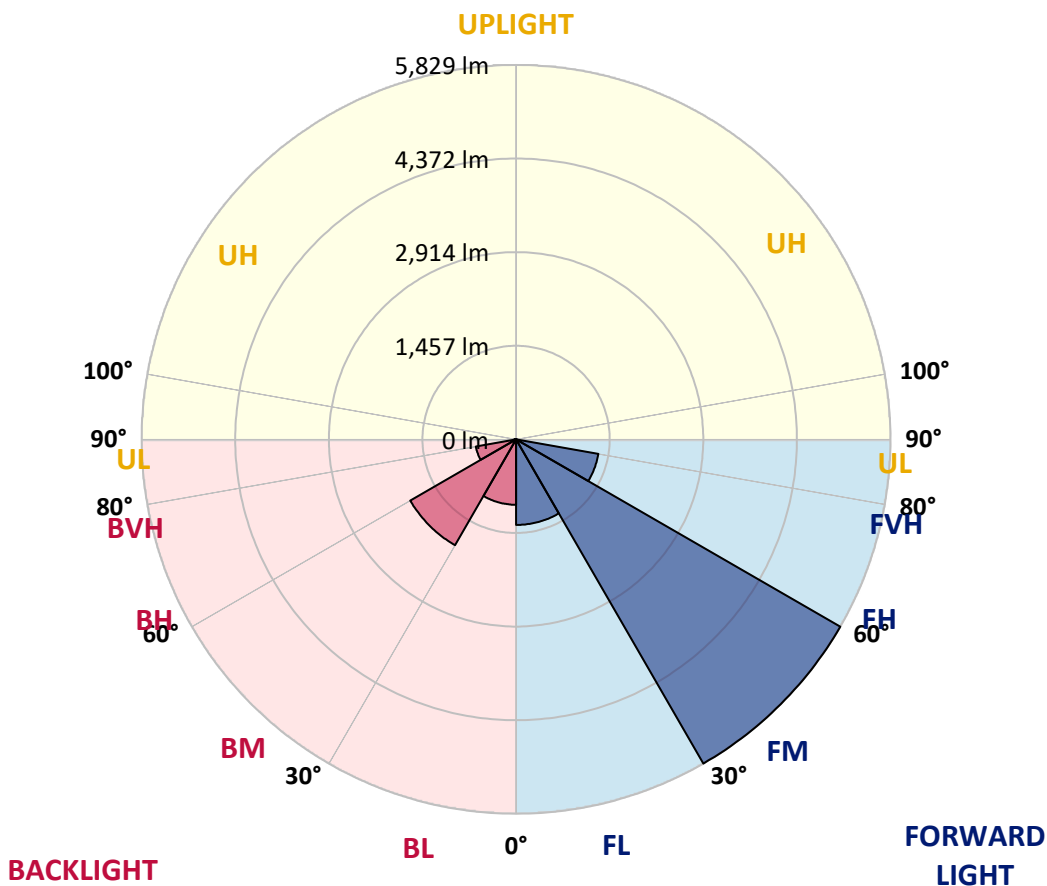
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1332.0	11.0			
FM (30°-60°)	5828.9	48.3			
FH (60°-80°)	1300.6	10.8			G1/1800
FVH (80°-90°)	15.3	0.1			G1/100
BL (0°-30°)	1018.3	8.4	B3/2500		
BM (30°-60°)	1902.5	15.8	B2/2500		
BH (60°-80°)	636.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	28.6	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2989.3	2989.3	2989.3	2989.3	2989.3	2989.3	2989.3	2989.3	2989.3	2989.3	2989.3
2.5°	2853.2	2847.3	2849.3	2857.2	2886.8	2908.5	2931.2	2951.9	2971.6	2977.5	2982.4
5°	2751.7	2740.8	2743.8	2756.6	2791.1	2827.6	2868.0	2917.3	2964.7	2980.5	3001.2
7.5°	2679.7	2677.7	2682.6	2702.3	2738.8	2773.4	2825.6	2895.6	2977.5	3004.1	3040.6
10°	2584.0	2580.0	2599.8	2640.2	2700.4	2755.6	2817.7	2900.6	3015.0	3054.4	3110.7
12.5°	2508.0	2506.1	2526.8	2583.0	2659.9	2747.7	2833.5	2926.2	3065.3	3119.5	3188.6
15°	2552.4	2543.6	2544.5	2584.0	2653.0	2756.6	2873.0	2972.6	3115.6	3184.6	3273.4
17.5°	2681.6	2665.8	2654.0	2660.9	2700.4	2807.9	2933.1	3034.7	3173.8	3254.6	3363.1
20°	2860.1	2851.3	2818.7	2797.0	2805.9	2900.6	3027.8	3122.5	3249.7	3340.4	3456.8
22.5°	3099.8	3078.1	3033.7	2999.2	2972.6	3046.5	3163.9	3245.8	3355.2	3449.9	3571.2
25°	3396.7	3365.1	3295.1	3240.8	3183.6	3259.6	3364.1	3426.3	3500.2	3588.0	3703.4
27.5°	3699.4	3672.8	3594.9	3521.9	3450.9	3498.2	3622.5	3658.0	3650.1	3714.2	3812.9
30°	4022.0	3988.4	3914.4	3835.5	3743.8	3774.4	3885.8	3903.6	3819.8	3873.0	3940.1
32.5°	4362.2	4329.7	4265.6	4173.8	4070.3	4082.1	4112.7	4129.5	4049.6	4080.1	4131.4
35°	4708.4	4677.8	4612.7	4522.0	4446.0	4374.0	4297.1	4364.2	4317.8	4377.0	4373.1
37.5°	5025.0	4994.4	4954.0	4883.9	4753.8	4611.7	4434.2	4517.1	4589.0	4664.0	4651.2
40°	5239.0	5218.3	5228.1	5217.3	5049.6	4768.5	4501.3	4592.0	4788.3	4916.5	4909.6
42.5°	5423.4	5402.7	5459.9	5501.3	5304.1	4913.5	4533.8	4620.6	4915.5	5115.7	5105.8
45°	5505.3	5499.4	5594.0	5725.2	5536.8	5067.4	4617.7	4679.8	5012.2	5268.6	5231.1
47.5°	5407.6	5428.4	5614.8	5836.7	5730.1	5249.8	4789.3	4805.0	5138.4	5434.3	5328.7
50°	5213.3	5258.7	5510.2	5839.6	5871.2	5456.0	5026.9	4987.5	5308.0	5610.8	5380.0
52.5°	4930.3	4977.6	5387.9	5816.9	5952.1	5694.6	5343.5	5287.3	5522.0	5787.3	5388.9
55°	4280.4	4344.5	5107.8	5765.7	6031.0	5911.6	5700.6	5586.2	5798.2	6030.0	5476.7
57.5°	3713.3	3746.8	4425.3	5537.8	6046.7	6071.4	5955.0	5818.9	6072.4	6292.3	5575.3
60°	2725.0	2732.9	3343.4	4582.1	5562.5	5978.7	5934.3	5732.1	5942.2	6082.2	5123.6
62.5°	1539.5	1540.5	2027.7	3058.4	4155.1	4873.1	4900.7	4722.2	4545.7	4587.1	3566.3
65°	577.9	632.2	926.1	1503.1	2395.6	2876.9	2991.3	3032.7	2738.8	2556.4	1912.4
67.5°	386.6	399.4	540.5	773.2	1066.1	1230.8	1376.8	1380.8	1009.9	900.5	753.5
70°	294.9	307.7	425.1	553.3	540.5	499.0	539.5	524.7	542.4	557.2	573.0
72.5°	219.9	232.8	329.4	390.6	324.5	319.5	362.0	402.4	439.9	455.7	480.3
75°	146.0	155.8	221.9	209.1	179.5	212.0	264.3	304.8	326.5	345.2	363.9
77.5°	92.7	99.6	118.4	95.7	99.6	124.3	153.9	190.3	211.1	229.8	239.7
80°	42.4	41.4	40.4	45.4	56.2	73.0	92.7	114.4	130.2	138.1	144.0
82.5°	16.8	18.7	20.7	24.7	30.6	39.5	52.3	67.1	79.9	81.9	86.8
85°	6.9	7.9	8.9	10.8	13.8	17.8	21.7	30.6	38.5	41.4	44.4
87.5°	0.0	0.0	0.0	0.0	1.0	2.0	3.0	4.9	8.9	9.9	10.8
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°	2989.3	2989.3	2989.3	2989.3	2989.3	2989.3	2989.3	2989.3	2989.3	2989.3	2989.3
2.5°	3009.1	2996.2	3017.9	3032.7	3046.5	3031.8	3026.8	3014.0	3012.0	3012.0	3018.9
5°	3036.7	3027.8	3050.5	3059.4	3058.4	3025.8	3006.1	2980.5	2967.6	2967.6	2969.6
7.5°	3086.0	3081.1	3093.9	3080.1	3048.5	2982.4	2917.3	2863.1	2826.6	2807.9	2813.8
10°	3167.9	3161.9	3151.1	3099.8	3009.1	2872.0	2738.8	2640.2	2581.0	2547.5	2549.5
12.5°	3247.7	3237.9	3199.4	3086.0	2899.6	2681.6	2507.1	2396.6	2331.5	2292.1	2283.2
15°	3335.5	3309.9	3227.0	3015.0	2721.1	2448.9	2266.4	2147.1	2077.1	2053.4	2052.4
17.5°	3419.3	3374.0	3224.1	2888.7	2507.1	2205.3	2021.8	1947.9	1936.0	1946.9	1949.8
20°	3504.2	3431.2	3191.5	2714.2	2252.6	1962.6	1868.0	1898.5	1942.9	1972.5	1979.4
22.5°	3591.9	3478.5	3117.6	2489.3	1984.3	1798.9	1838.4	1905.4	1960.7	2000.1	2004.1
25°	3690.6	3522.9	3007.1	2214.1	1769.3	1753.6	1831.5	1902.5	1961.7	2007.0	2014.9
27.5°	3746.8	3523.9	2852.3	1931.1	1670.7	1735.8	1814.7	1881.8	1941.0	1990.3	1999.1
30°	3802.0	3497.3	2606.7	1701.3	1642.1	1715.1	1786.1	1848.2	1904.5	1952.8	1963.6
32.5°	3879.9	3472.6	2323.6	1569.1	1625.3	1695.4	1753.6	1808.8	1852.2	1873.9	1879.8
35°	3976.6	3441.0	2022.8	1511.9	1614.5	1679.6	1730.9	1760.5	1704.3	1692.4	1705.2
37.5°	4111.7	3411.5	1723.0	1487.3	1607.6	1673.7	1719.0	1643.1	1574.1	1546.4	1556.3
40°	4257.7	3394.7	1519.8	1467.5	1610.6	1679.6	1669.7	1557.3	1457.7	1399.5	1397.5
42.5°	4381.9	3369.1	1389.6	1454.7	1618.4	1702.3	1602.7	1481.4	1333.4	1298.9	1299.9
45°	4465.8	3304.0	1320.6	1440.9	1625.3	1707.2	1571.1	1376.8	1271.3	1249.6	1248.6
47.5°	4500.3	3185.6	1276.2	1419.2	1624.4	1666.8	1507.0	1333.4	1227.9	1222.0	1225.9
50°	4477.6	2991.3	1230.8	1376.8	1600.7	1624.4	1433.0	1295.0	1198.3	1230.8	1254.5
52.5°	4393.8	2739.8	1176.6	1318.6	1558.3	1576.0	1395.6	1271.3	1176.6	1220.0	1238.7
55°	4372.1	2535.7	1107.6	1242.7	1495.2	1490.2	1356.1	1259.4	1161.8	1145.0	1148.0
57.5°	4343.5	2336.4	993.2	1106.6	1335.4	1343.3	1318.6	1245.6	1123.3	1118.4	1123.3
60°	3773.4	1791.0	885.7	954.7	1096.7	1139.1	1276.2	1220.0	1061.2	1040.5	1039.5
62.5°	2464.7	1084.9	788.0	832.4	893.5	942.9	1163.8	1146.0	993.2	980.3	989.2
65°	1325.5	773.2	717.0	743.6	777.2	814.6	964.6	1020.8	897.5	852.1	853.1
67.5°	677.6	657.8	663.8	682.5	708.1	726.9	778.2	827.5	765.3	726.9	725.9
70°	579.9	595.7	604.6	615.4	632.2	629.2	634.2	643.0	638.1	619.4	618.4
72.5°	494.1	518.8	520.7	522.7	528.6	514.8	505.9	491.2	492.1	495.1	496.1
75°	375.8	399.4	405.4	402.4	408.3	390.6	378.7	363.9	346.2	343.2	345.2
77.5°	244.6	263.3	272.2	270.2	273.2	259.4	253.5	237.7	217.0	209.1	209.1
80°	147.9	158.8	165.7	167.7	170.6	160.8	150.9	137.1	128.2	119.3	119.3
82.5°	89.7	96.7	101.6	101.6	104.5	93.7	85.8	75.9	72.0	64.1	64.1
85°	45.4	50.3	52.3	51.3	49.3	40.4	37.5	32.5	30.6	26.6	26.6
87.5°	10.8	13.8	13.8	9.9	9.9	4.9	3.0	1.0	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)