

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: P639713

Luminaire Tested: GWS-SA5C-735-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639713  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-735-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

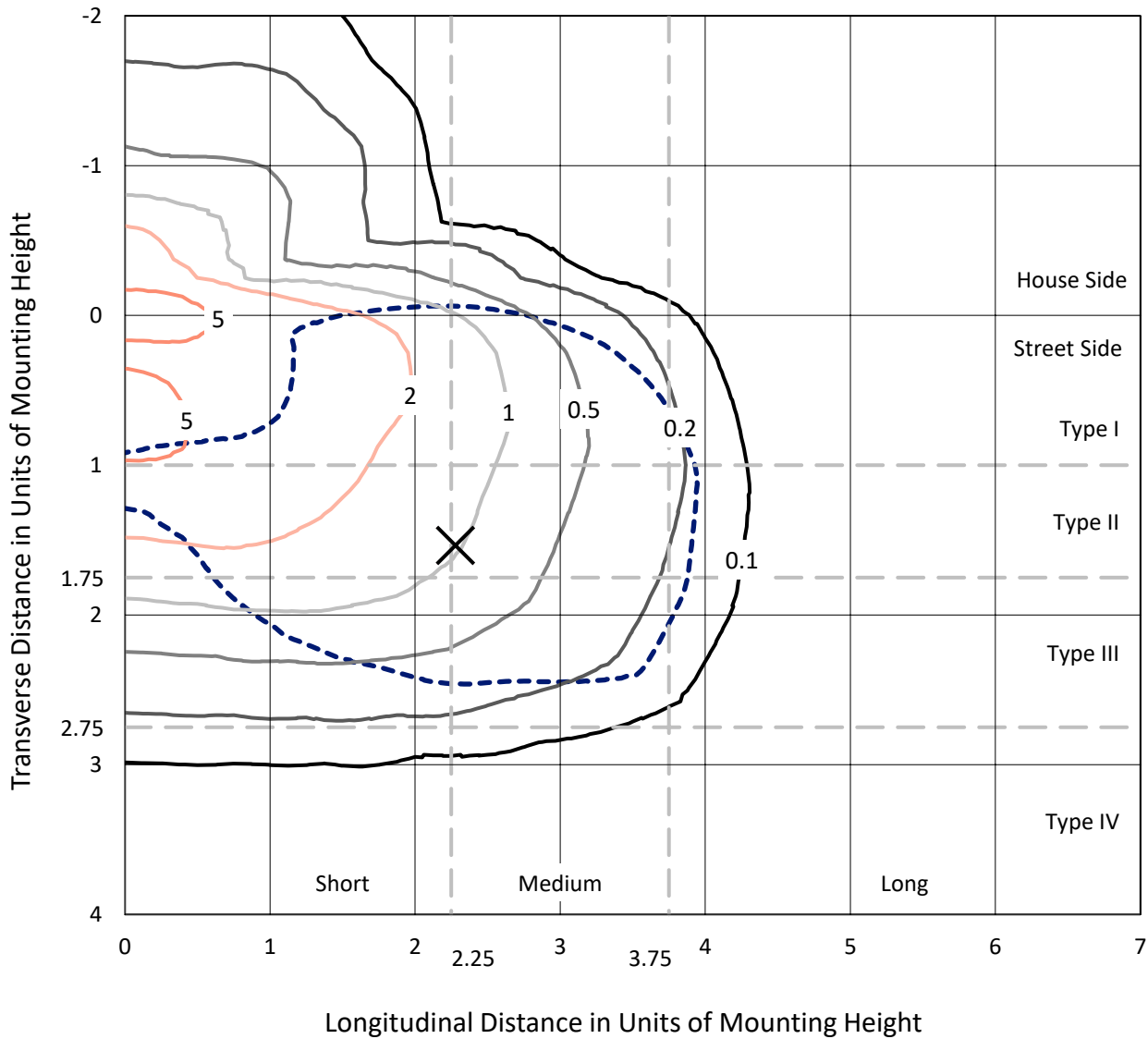
Lumens per Lamp: N/A  
Luminaire Lumens: 23875.9 lumens  
Efficiency: N/A  
Efficacy: 151.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

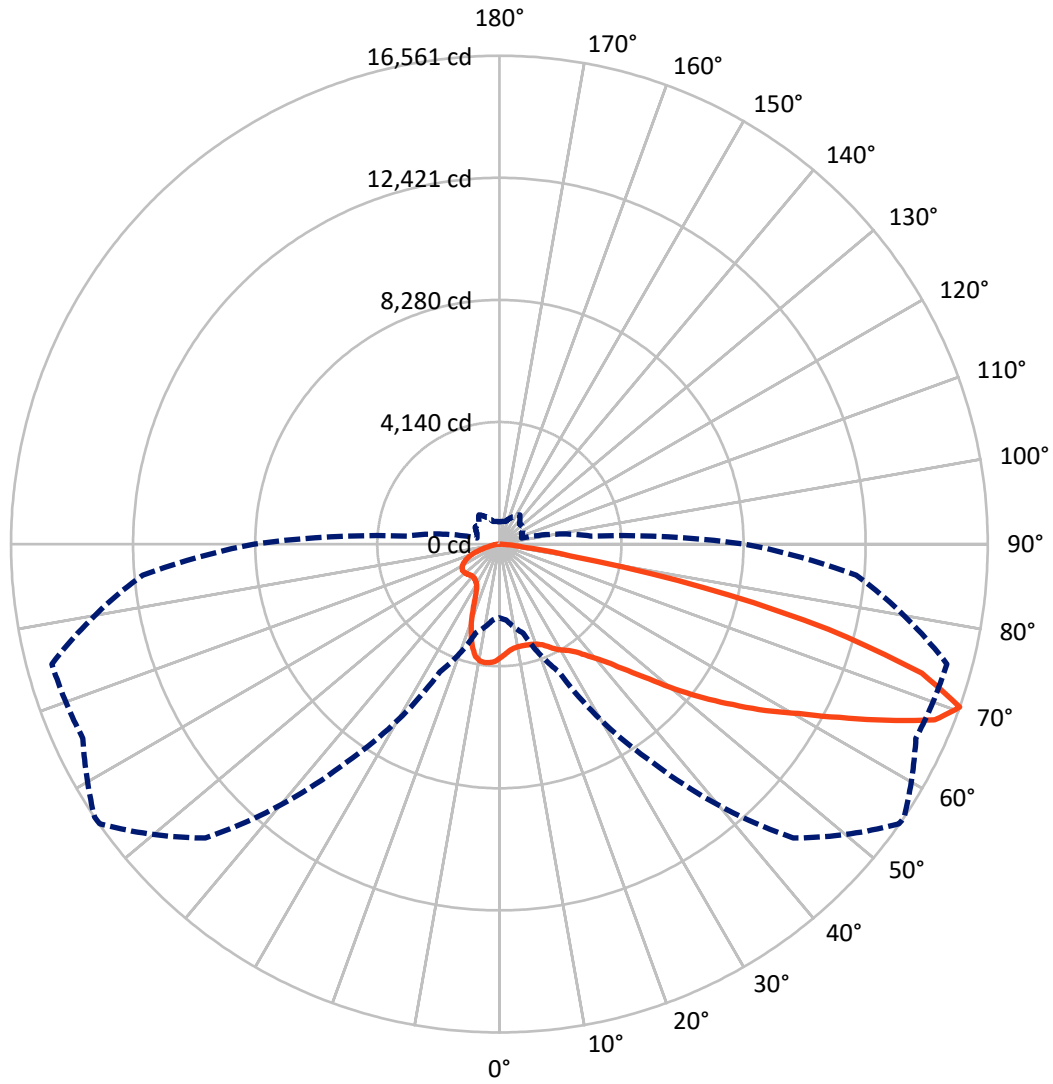
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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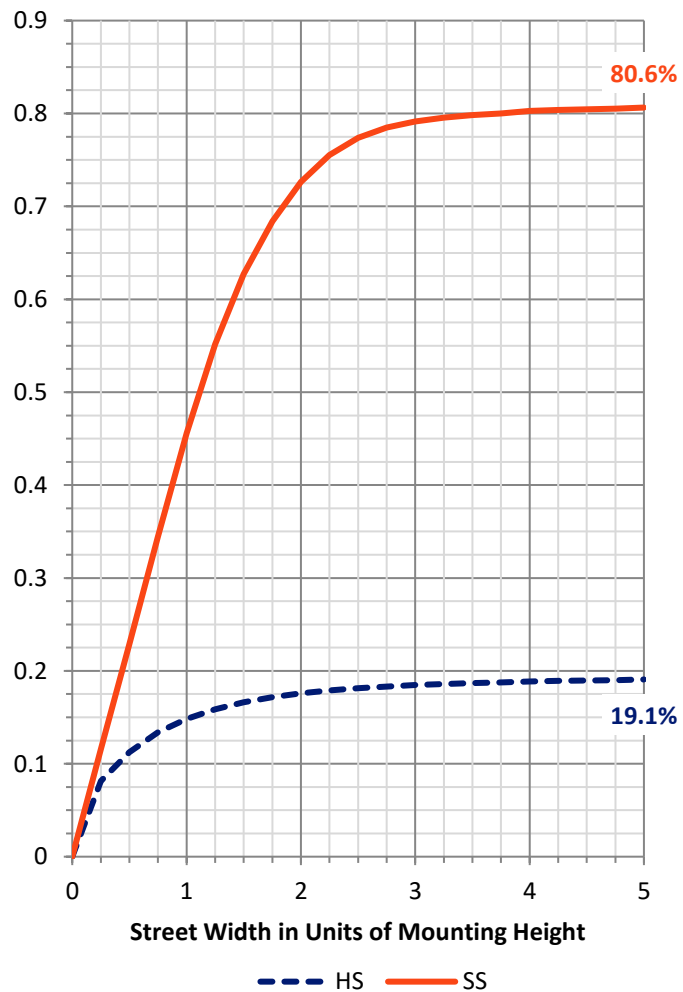
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4590.2	0.0	4590.2
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	19285.7	0.0	19285.7
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	23875.9	0.0	23875.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	356.6	1.5
10°-20°	966.3	4.0
20°-30°	1597.6	6.7
30°-40°	2388.6	10.0
40°-50°	3554.6	14.9
50°-60°	5053.6	21.2
60°-70°	6259.1	26.2
70°-80°	3456.1	14.5
80°-90°	243.4	1.0
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°	23875.9	100.0
0°-180°	23875.9	100.0

**Coefficient of Utilization**



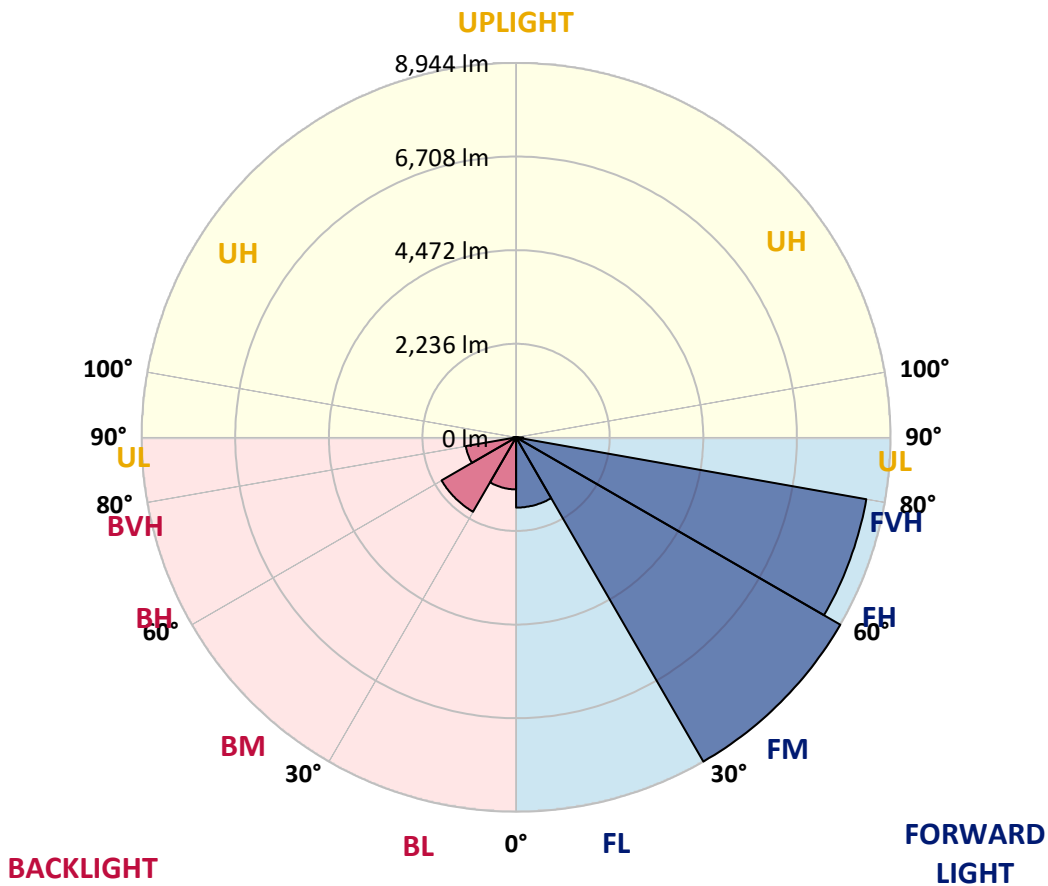
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1678.0	7.0			
FM (30°-60°)	8943.5	37.5			
FH (60°-80°)	8495.1	35.6			G4/12000
FVH (80°-90°)	169.1	0.7			G2/225
BL (0°-30°)	1242.6	5.2	B3/2500		
BM (30°-60°)	2053.3	8.6	B2/2500		
BH (60°-80°)	1220.0	5.1	B3/2500		G3/2500
BVH (80°-90°)	74.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3853.9	3853.9	3853.9	3853.9	3853.9	3853.9	3853.9	3853.9	3853.9	3853.9	3853.9
2.5°	3606.4	3586.2	3609.8	3621.6	3651.9	3695.7	3734.4	3736.1	3756.3	3805.1	3852.3
5°	3443.1	3433.0	3439.8	3475.1	3507.1	3562.7	3621.6	3626.6	3683.9	3779.9	3874.1
7.5°	3316.8	3303.4	3328.6	3374.1	3414.5	3476.8	3554.2	3561.0	3641.8	3786.6	3931.4
10°	3135.0	3124.9	3172.0	3232.7	3320.2	3422.9	3525.6	3534.0	3640.1	3830.4	4032.4
12.5°	3055.9	3055.9	3076.1	3133.3	3229.3	3365.7	3520.6	3534.0	3667.0	3897.7	4162.1
15°	3178.8	3187.2	3170.4	3167.0	3205.7	3335.4	3527.3	3547.5	3717.6	3966.7	4290.0
17.5°	3426.3	3434.7	3390.9	3321.9	3283.2	3364.0	3552.6	3574.4	3771.4	4042.5	4428.1
20°	3773.1	3783.2	3687.3	3581.2	3448.2	3446.5	3601.4	3621.6	3840.5	4125.0	4574.6
22.5°	4178.9	4185.6	4064.4	3896.0	3692.3	3599.7	3685.6	3705.8	3929.7	4239.5	4732.8
25°	4648.6	4668.8	4522.4	4278.2	4002.1	3810.2	3825.3	3848.9	4089.7	4392.7	4919.7
27.5°	5150.4	5175.6	5007.3	4737.9	4357.4	4042.5	4005.5	4025.7	4259.7	4487.0	5019.0
30°	5663.9	5682.4	5514.0	5205.9	4739.6	4305.2	4157.0	4168.8	4333.8	4532.5	5120.1
32.5°	6234.7	6219.5	6057.9	5702.6	5180.7	4620.0	4298.4	4295.1	4416.3	4623.4	5264.9
35°	6770.1	6792.0	6620.2	6227.9	5665.6	5008.9	4510.6	4497.1	4591.4	4771.5	5468.6
37.5°	7418.3	7411.5	7206.1	6781.9	6152.2	5381.0	4808.6	4785.0	4818.7	5002.2	5753.1
40°	7881.3	7928.4	7795.4	7399.8	6721.2	5839.0	5157.1	5104.9	5113.3	5286.7	6133.6
42.5°	8260.1	8303.9	8317.4	8064.8	7372.8	6404.7	5591.5	5539.3	5544.3	5790.2	6601.7
45°	8551.4	8610.3	8800.6	8726.5	8106.9	7058.0	6179.1	6125.2	6128.6	6401.3	7167.4
47.5°	8670.9	8734.9	9120.5	9297.3	8886.4	7839.2	6909.8	6830.7	6842.5	7143.8	7813.9
50°	8632.2	8718.1	9240.0	9736.7	9539.7	8633.9	7783.6	7728.1	7682.6	8120.4	8516.0
52.5°	8298.8	8393.1	9228.2	10016.2	10073.4	9384.8	8686.1	8654.1	8644.0	9157.5	9300.6
55°	7317.3	7475.5	8822.5	10090.3	10491.0	10092.0	9664.3	9610.4	9662.6	10268.7	10093.6
57.5°	6773.4	6891.3	8027.8	10007.8	10832.8	10765.4	10640.8	10645.9	10704.8	11475.9	11055.0
60°	6463.6	6601.7	7586.7	9782.2	11161.1	11583.7	11662.8	11662.8	11768.9	12777.4	12031.6
62.5°	6052.8	6192.6	7174.1	9347.8	11464.2	12546.8	12947.5	12942.4	12984.5	14173.2	12986.2
65°	5219.4	5349.0	6345.8	8662.5	11612.3	13607.5	14407.2	14392.1	14307.9	15415.7	13617.6
67.5°	3790.0	3912.9	4860.8	7359.4	11078.6	14462.8	15910.8	15917.5	15414.1	16198.7	13651.3
70°	2498.6	2582.8	3124.9	4780.0	9009.4	14094.1	16540.4	16560.7	15584.1	15710.4	12149.4
72.5°	1559.1	1618.0	1951.4	2850.5	5323.8	11156.0	14924.1	14979.7	14020.0	13806.2	9982.5
75°	1035.5	1075.9	1298.1	1661.8	2463.2	6037.7	11344.6	11523.1	11236.9	10822.7	6955.3
77.5°	623.0	656.6	826.7	1055.7	1091.0	2358.8	6621.9	7083.2	7123.6	5650.4	2912.8
80°	284.5	323.3	456.3	602.8	580.9	821.6	2335.3	2443.0	2882.5	1794.8	919.3
82.5°	168.4	185.2	303.1	299.7	247.5	399.0	840.2	862.0	732.4	656.6	392.3
85°	67.3	79.1	128.0	112.8	90.9	129.6	316.5	331.7	318.2	286.2	144.8
87.5°	0.0	0.0	0.0	0.0	1.7	3.4	28.6	30.3	43.8	79.1	43.8
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°	3853.9	3853.9	3853.9	3853.9	3853.9	3853.9	3853.9	3853.9	3853.9	3853.9	3853.9
2.5°	3882.6	3872.5	3923.0	3961.7	3978.5	3995.4	3980.2	3975.2	3975.2	3941.5	3924.7
5°	3924.7	3929.7	3998.7	4030.7	4030.7	4017.3	3976.8	3948.2	3938.1	3894.3	3882.6
7.5°	4003.8	4025.7	4089.7	4088.0	4040.8	3966.7	3865.7	3788.3	3717.6	3687.3	3668.7
10°	4133.4	4162.1	4205.8	4135.1	4003.8	3808.5	3594.7	3426.3	3325.3	3244.4	3244.4
12.5°	4281.6	4308.5	4300.1	4136.8	3865.7	3500.4	3192.3	2998.6	2857.2	2783.1	2783.1
15°	4429.8	4451.6	4360.7	4059.3	3577.8	3091.2	2754.5	2522.1	2399.2	2330.2	2330.2
17.5°	4579.6	4577.9	4386.0	3880.9	3202.4	2638.3	2308.3	2128.2	2086.1	2074.3	2072.6
20°	4724.4	4685.7	4354.0	3582.9	2766.3	2182.0	1973.3	1985.1	2047.4	2074.3	2077.7
22.5°	4887.7	4791.7	4259.7	3202.4	2271.3	1865.5	1879.0	1976.6	2067.6	2108.0	2113.0
25°	5054.4	4882.7	4101.4	2756.2	1857.1	1749.3	1853.7	1963.2	2065.9	2118.1	2123.1
27.5°	5121.7	4882.7	3832.0	2239.3	1636.5	1700.5	1815.0	1921.1	2028.8	2089.4	2101.2
30°	5177.3	4840.6	3454.9	1772.9	1545.6	1653.4	1752.7	1850.4	1956.4	2030.5	2044.0
32.5°	5254.8	4803.5	2998.6	1490.1	1503.5	1607.9	1676.9	1759.4	1855.4	1904.2	1899.2
35°	5345.7	4746.3	2448.1	1355.4	1468.2	1569.2	1618.0	1666.8	1623.1	1621.4	1626.4
37.5°	5475.3	4695.8	1968.2	1294.7	1444.6	1542.2	1582.7	1478.3	1417.7	1392.4	1382.3
40°	5662.2	4675.6	1552.4	1259.4	1441.2	1540.6	1511.9	1350.3	1267.8	1180.3	1178.6
42.5°	5897.9	4660.4	1283.0	1242.6	1453.0	1579.3	1414.3	1266.1	1096.1	1057.3	1054.0
45°	6201.0	4636.8	1148.3	1239.2	1481.6	1609.6	1404.2	1150.0	1033.8	1016.9	1016.9
47.5°	6566.3	4599.8	1087.7	1239.2	1513.6	1596.1	1373.9	1124.7	1005.2	1023.7	1035.5
50°	6985.6	4552.7	1055.7	1235.8	1545.6	1596.1	1309.9	1119.6	998.4	1094.4	1133.1
52.5°	7433.4	4498.8	1033.8	1222.3	1567.5	1597.8	1313.3	1136.5	1005.2	1111.2	1143.2
55°	7928.4	4490.4	1003.5	1193.7	1574.2	1554.0	1321.7	1173.5	1015.3	1006.8	1008.5
57.5°	8553.1	4591.4	981.6	1151.6	1547.3	1464.8	1338.5	1200.5	1003.5	1005.2	1016.9
60°	9206.3	4781.6	1000.1	1111.2	1491.7	1380.6	1350.3	1187.0	946.2	919.3	922.7
62.5°	9762.0	4926.4	1015.3	1092.7	1410.9	1306.5	1338.5	1156.7	914.2	907.5	922.7
65°	9994.3	4806.9	978.2	1054.0	1293.1	1215.6	1313.3	1118.0	887.3	862.0	863.7
67.5°	9736.7	4246.2	905.8	968.1	1160.1	1099.4	1272.9	1067.5	850.3	820.0	813.2
70°	8317.4	3119.9	781.2	831.7	998.4	963.1	1210.6	1001.8	791.3	769.4	754.3
72.5°	6702.7	2209.0	648.2	661.7	782.9	811.5	1102.8	919.3	724.0	661.7	639.8
75°	4665.5	1387.4	540.5	527.0	565.7	619.6	860.4	762.7	624.6	559.0	538.8
77.5°	2006.9	712.2	422.6	415.9	377.1	429.3	660.0	636.4	523.6	447.9	436.1
80°	671.8	412.5	304.7	293.0	250.9	301.4	464.7	508.5	410.8	331.7	311.5
82.5°	336.7	239.1	193.6	175.1	168.4	190.3	274.4	316.5	284.5	229.0	193.6
85°	165.0	136.4	106.1	104.4	87.6	82.5	114.5	134.7	128.0	94.3	89.2
87.5°	60.6	53.9	33.7	26.9	16.8	11.8	6.7	6.7	5.1	5.1	5.1
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)