

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: P639710

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639710  
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-SA5C-735-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

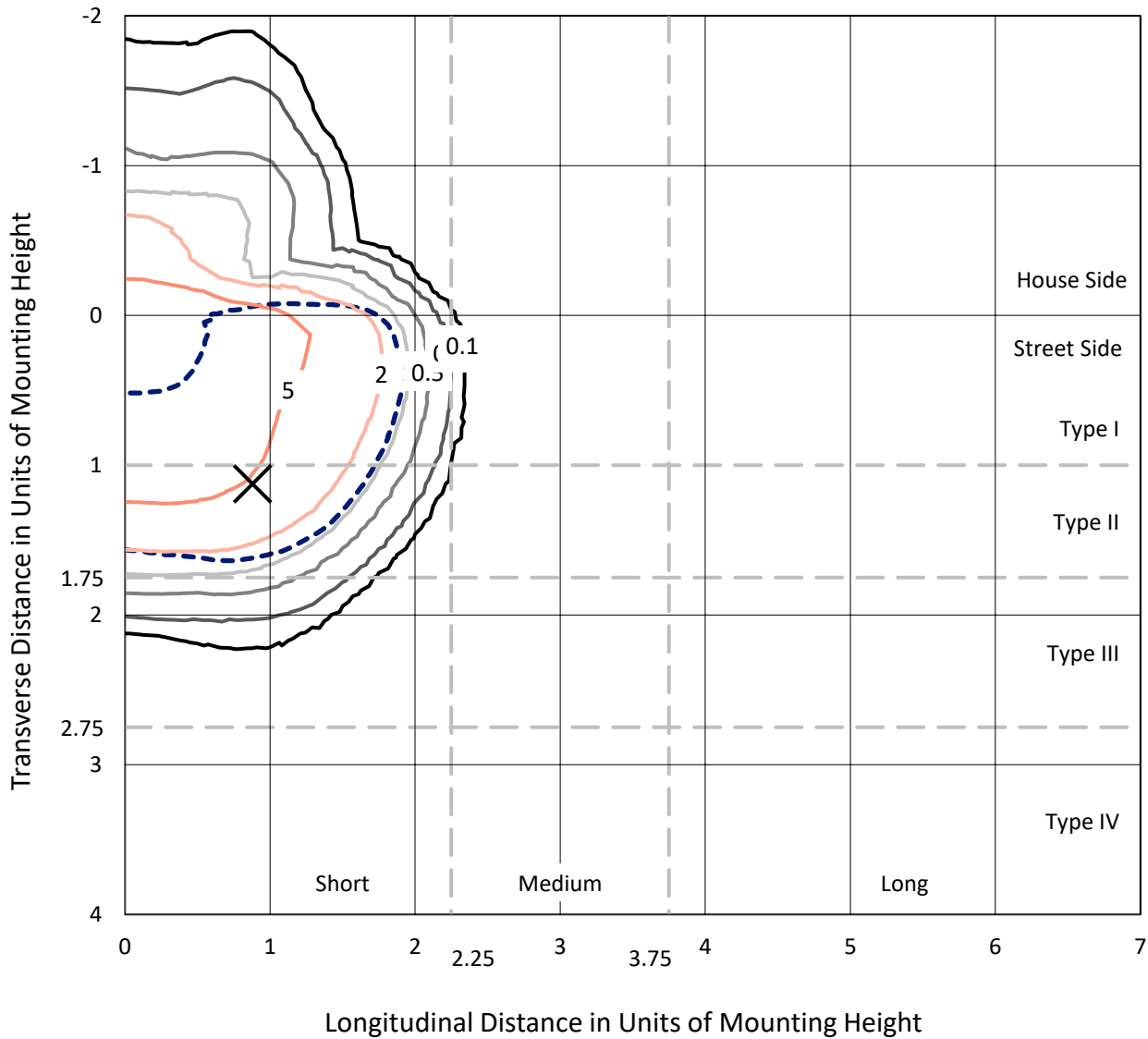
Lumens per Lamp: N/A  
Luminaire Lumens: 14730.3 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

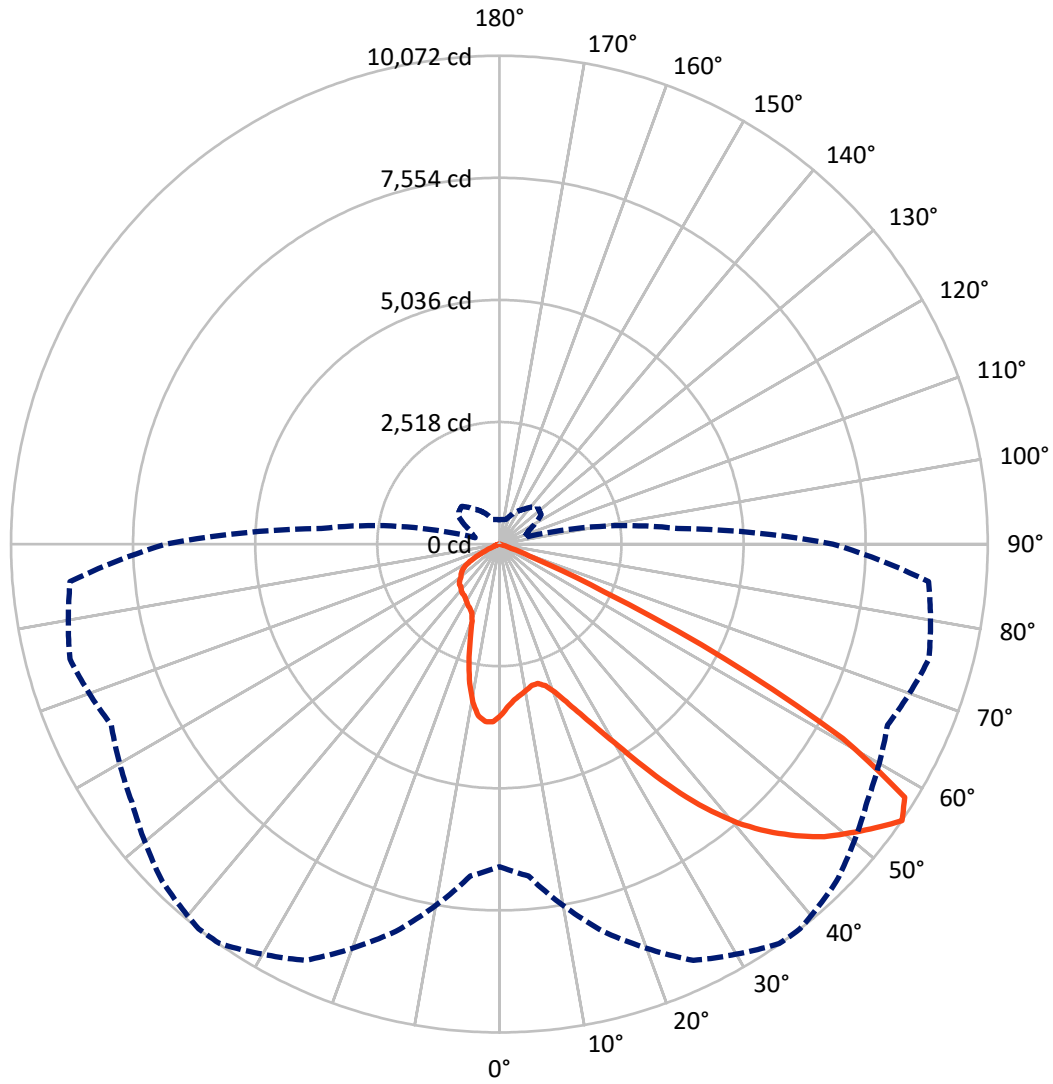
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.2 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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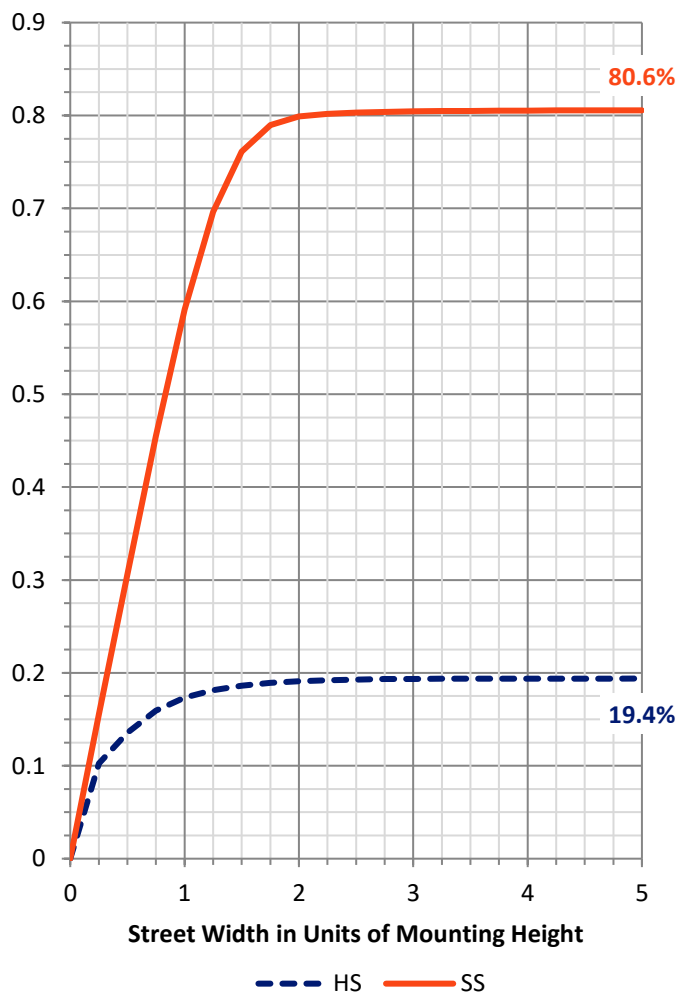
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2869.9	0.0	2869.9
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	11860.4	0.0	11860.4
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	14730.3	0.0	14730.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	326.6	2.2
10°-20°	879.3	6.0
20°-30°	1508.9	10.2
30°-40°	2502.7	17.0
40°-50°	3679.0	25.0
50°-60°	4299.1	29.2
60°-70°	1457.2	9.9
70°-80°	74.5	0.5
80°-90°	3.0	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°	14730.3	100.0
0°-180°	14730.3	100.0

**Coefficient of Utilization**



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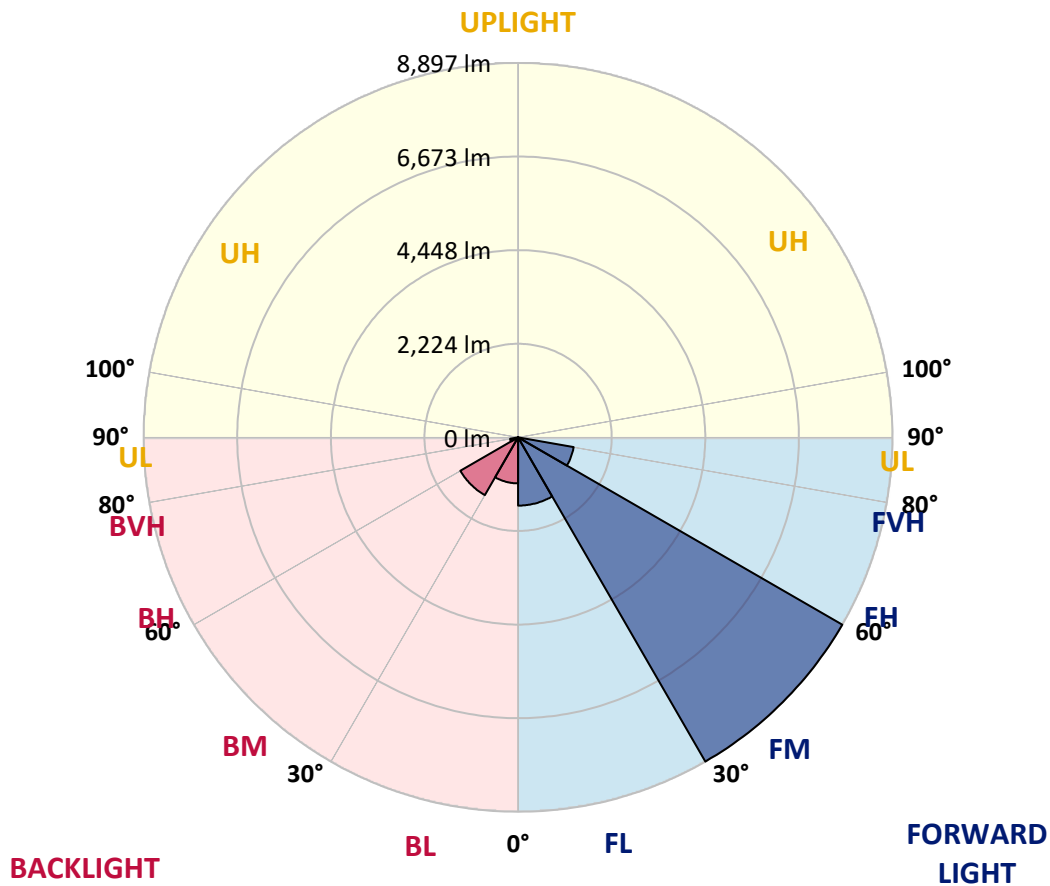
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1621.4	11.0			
FM (30°-60°)	8896.7	60.4			
FH (60°-80°)	1340.7	9.1			G1/1800
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	1093.4	7.4	B3/2500		
BM (30°-60°)	1584.1	10.8	B2/2500		
BH (60°-80°)	191.1	1.3	B1/500		G1/500
BVH (80°-90°)	1.4	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3532.4	3532.4	3532.4	3532.4	3532.4	3532.4	3532.4	3532.4	3532.4	3532.4	3532.4
2.5°	3290.0	3283.2	3296.7	3323.7	3348.9	3357.3	3382.6	3417.9	3439.8	3492.0	3534.1
5°	3141.8	3138.4	3151.9	3175.5	3209.2	3221.0	3259.7	3318.6	3377.5	3468.5	3557.7
7.5°	3007.1	3005.4	3025.6	3077.8	3126.7	3141.8	3189.0	3261.4	3340.5	3480.2	3611.6
10°	2830.3	2832.0	2870.7	2944.8	3034.1	3064.4	3140.1	3244.5	3347.2	3527.4	3709.2
12.5°	2773.1	2776.4	2796.7	2853.9	2951.6	2990.3	3096.4	3254.6	3386.0	3594.7	3835.5
15°	2912.8	2912.8	2896.0	2902.7	2946.5	2981.9	3093.0	3288.3	3451.6	3675.6	3960.1
17.5°	3183.9	3173.8	3131.7	3074.5	3059.3	3071.1	3160.3	3360.7	3544.2	3769.8	4101.5
20°	3551.0	3554.3	3471.8	3352.3	3256.3	3254.6	3308.5	3488.7	3677.2	3882.7	4254.8
22.5°	3995.5	3982.0	3872.5	3709.2	3542.5	3529.1	3551.0	3684.0	3869.2	4061.1	4443.3
25°	4510.7	4503.9	4349.0	4130.2	3909.6	3877.6	3877.6	4008.9	4143.6	4315.4	4668.9
27.5°	5049.5	5049.5	4899.6	4647.1	4354.1	4296.8	4288.4	4443.3	4532.6	4566.2	4859.2
30°	5603.4	5596.7	5448.5	5189.2	4876.0	4817.1	4793.5	4908.0	4972.0	4871.0	5096.6
32.5°	6165.8	6177.6	6027.7	5786.9	5507.4	5468.7	5396.3	5396.3	5448.5	5307.1	5470.4
35°	6770.2	6766.9	6649.0	6485.7	6246.6	6202.8	6083.3	5896.4	5975.5	5913.2	5987.3
37.5°	7304.0	7329.2	7272.0	7150.7	6957.1	6913.3	6716.3	6377.9	6438.5	6536.2	6601.9
40°	7846.1	7866.3	7923.6	7884.8	7640.7	7559.9	7209.7	6654.1	6721.4	7056.5	7245.0
42.5°	8378.2	8388.3	8504.5	8568.4	8241.8	8100.4	7583.5	6822.4	6893.1	7463.9	7793.9
45°	8716.6	8738.5	8930.4	9125.7	8772.2	8578.5	7908.4	7037.9	7068.2	7746.8	8199.7
47.5°	8703.1	8753.6	9114.0	9469.2	9228.5	9019.7	8299.0	7383.1	7332.6	8012.8	8467.4
50°	8432.1	8492.7	9009.6	9573.6	9556.8	9363.2	8733.4	7883.2	7724.9	8248.5	8501.1
52.5°	7869.7	8044.8	8826.0	9587.1	9821.1	9723.5	9270.5	8556.7	8255.3	8587.0	8555.0
55°	6654.1	6869.6	8268.7	9472.6	10060.2	10072.0	9834.6	9258.8	8831.1	9169.5	8886.7
57.5°	5051.2	5222.9	6364.5	8432.1	9664.5	9858.2	10053.5	9629.2	9186.4	9566.9	8964.1
60°	3044.2	3242.8	3985.4	6187.7	7805.7	8135.7	8901.8	8819.3	8285.6	8448.9	7351.1
62.5°	1234.2	1338.6	1840.3	3409.5	4913.1	5221.2	5955.3	6079.9	5948.6	5781.9	4458.5
65°	451.2	493.3	737.5	1409.3	2259.5	2372.4	2759.6	2980.2	3162.0	2692.3	1658.5
67.5°	279.5	306.4	479.9	724.0	821.7	764.4	777.9	927.7	885.6	547.2	296.3
70°	207.1	229.0	375.5	501.7	331.7	255.9	173.4	185.2	166.7	146.5	144.8
72.5°	143.1	163.3	281.2	296.3	128.0	90.9	64.0	89.2	101.0	99.3	102.7
75°	94.3	109.4	176.8	116.2	32.0	25.3	21.9	47.1	60.6	60.6	62.3
77.5°	55.6	64.0	62.3	23.6	6.7	6.7	5.1	8.4	13.5	15.2	18.5
80°	6.7	5.1	3.4	3.4	3.4	3.4	3.4	3.4	5.1	5.1	5.1
82.5°	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4	3.4	5.1	5.1
85°	0.0	0.0	1.7	1.7	3.4	3.4	3.4	3.4	3.4	5.1	5.1
87.5°	0.0	0.0	1.7	1.7	3.4	3.4	3.4	3.4	3.4	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3532.4	3532.4	3532.4	3532.4	3532.4	3532.4	3532.4	3532.4	3532.4	3532.4	3532.4
2.5°	3566.1	3554.3	3603.2	3638.5	3667.1	3680.6	3662.1	3660.4	3660.4	3623.4	3613.3
5°	3608.2	3613.3	3682.3	3712.6	3717.6	3700.8	3658.7	3630.1	3613.3	3574.5	3552.6
7.5°	3689.0	3705.9	3771.5	3766.5	3721.0	3643.6	3532.4	3446.6	3391.0	3330.4	3293.4
10°	3805.2	3837.2	3877.6	3806.9	3662.1	3465.1	3236.1	3072.8	2975.1	2906.1	2864.0
12.5°	3946.6	3978.6	3965.2	3798.5	3497.1	3145.2	2850.5	2614.8	2502.0	2439.7	2395.9
15°	4089.7	4110.0	4022.4	3697.4	3205.8	2732.7	2404.3	2170.3	2032.2	1981.7	1944.7
17.5°	4236.2	4231.2	4032.5	3498.8	2816.9	2268.0	1944.7	1784.7	1746.0	1737.6	1734.2
20°	4389.5	4344.0	3992.1	3214.2	2348.8	1808.3	1624.8	1634.9	1705.6	1739.3	1746.0
22.5°	4564.6	4450.1	3891.1	2828.6	1870.6	1506.9	1525.4	1624.8	1720.8	1766.2	1773.0
25°	4751.5	4547.7	3722.7	2333.6	1474.9	1385.7	1495.1	1609.6	1712.3	1767.9	1774.6
27.5°	4874.4	4571.3	3446.6	1835.3	1266.2	1338.6	1454.7	1564.2	1670.2	1730.9	1739.3
30°	5007.4	4561.2	3071.1	1414.3	1195.4	1298.1	1399.2	1498.5	1596.2	1663.5	1670.2
32.5°	5202.7	4554.5	2613.1	1148.3	1166.8	1266.2	1340.2	1422.7	1490.1	1528.8	1523.8
35°	5458.6	4546.0	2079.4	1035.5	1150.0	1240.9	1299.8	1338.6	1264.5	1240.9	1246.0
37.5°	5786.9	4566.2	1629.8	988.3	1144.9	1234.2	1284.7	1173.6	1059.1	1015.3	1008.5
40°	6150.6	4618.4	1242.6	969.8	1161.8	1251.0	1227.4	1043.9	902.5	816.6	798.1
42.5°	6516.0	4675.7	983.3	963.1	1190.4	1298.1	1133.1	949.6	737.5	688.6	681.9
45°	6787.1	4665.6	850.3	951.3	1215.6	1325.1	1107.9	814.9	658.3	636.4	638.1
47.5°	6923.4	4554.5	777.9	924.4	1225.7	1298.1	1045.6	759.4	604.5	628.0	648.2
50°	6851.0	4266.5	710.5	872.2	1203.9	1262.8	946.2	717.3	577.5	675.2	720.6
52.5°	6763.5	3913.0	636.4	791.3	1151.7	1214.0	907.5	705.5	560.7	651.6	685.3
55°	6879.7	3689.0	515.2	666.8	1049.0	1099.5	877.2	703.8	522.0	506.8	501.7
57.5°	6716.3	3242.8	368.7	479.9	804.8	870.5	855.3	692.0	463.0	461.3	468.1
60°	5190.9	1978.4	252.6	304.8	493.3	555.6	776.2	661.7	399.0	367.1	368.7
62.5°	2949.9	841.9	173.4	188.6	252.6	299.7	592.7	601.1	368.7	350.2	368.7
65°	1027.1	301.4	134.7	126.3	139.7	160.0	340.1	464.7	335.1	303.1	306.4
67.5°	212.1	149.9	119.5	104.4	104.4	104.4	173.4	289.6	276.1	240.8	244.1
70°	134.7	128.0	104.4	89.2	85.9	79.1	99.3	160.0	190.3	175.1	176.8
72.5°	99.3	97.7	82.5	72.4	64.0	57.2	62.3	79.1	97.7	101.0	102.7
75°	60.6	62.3	53.9	45.5	40.4	35.4	37.0	37.0	37.0	33.7	37.0
77.5°	18.5	20.2	16.8	13.5	11.8	11.8	11.8	10.1	8.4	5.1	5.1
80°	5.1	5.1	5.1	5.1	5.1	3.4	3.4	1.7	1.7	0.0	0.0
82.5°	5.1	5.1	5.1	5.1	3.4	3.4	1.7	1.7	0.0	0.0	0.0
85°	5.1	5.1	5.1	5.1	3.4	3.4	1.7	1.7	0.0	0.0	0.0
87.5°	5.1	5.1	5.1	5.1	3.4	3.4	1.7	1.7	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)