

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: P639875

Luminaire Tested: GWS-SA5C-760-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639875
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15067.8 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

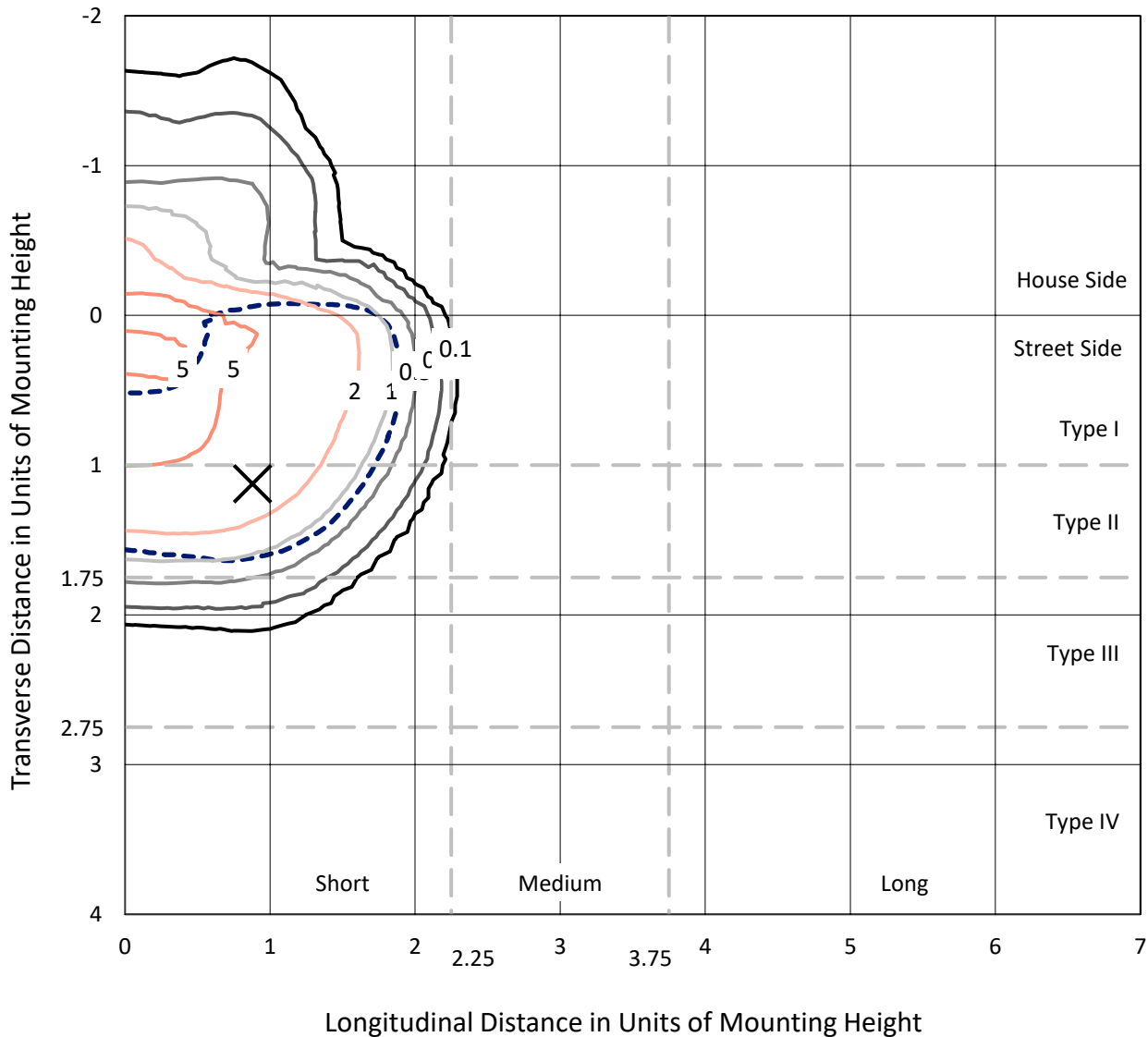
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

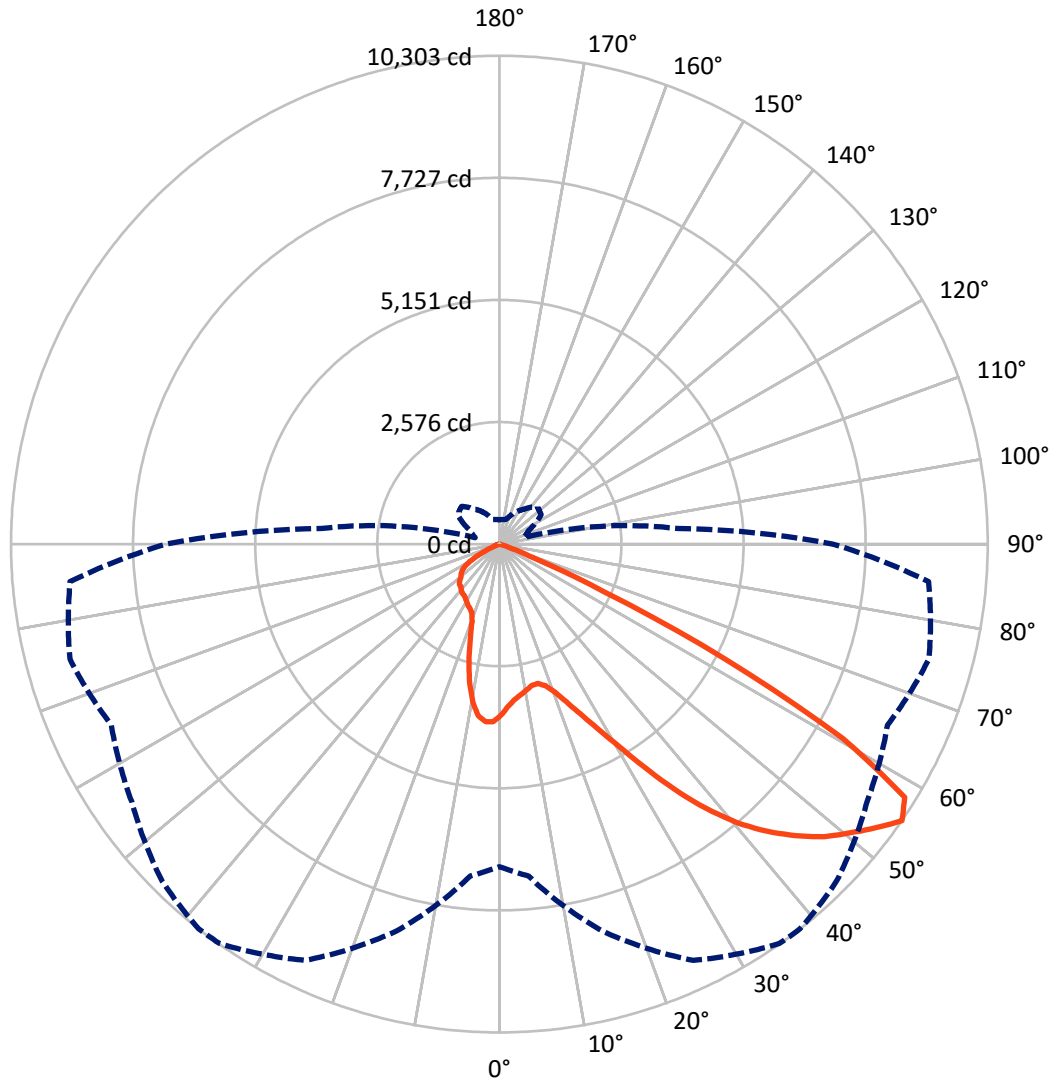
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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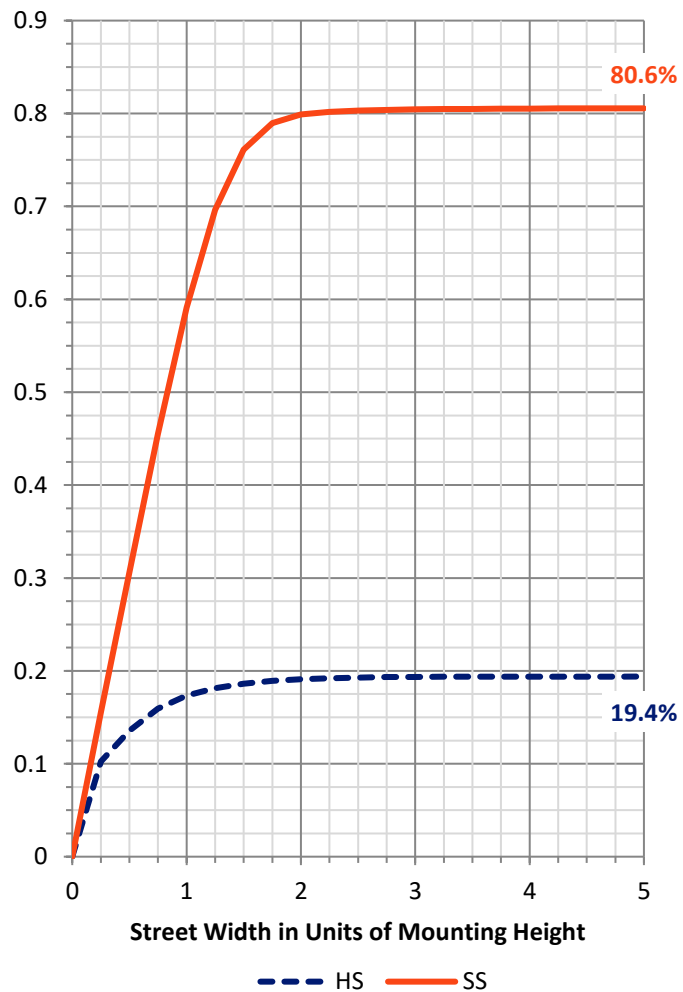
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2935.7	0.0	2935.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	12132.1	0.0	12132.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	15067.8	0.0	15067.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.1	2.2
10°-20°	899.4	6.0
20°-30°	1543.5	10.2
30°-40°	2560.0	17.0
40°-50°	3763.3	25.0
50°-60°	4397.6	29.2
60°-70°	1490.6	9.9
70°-80°	76.2	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°	15067.8	100.0
0°-180°	15067.8	100.0

Coefficient of Utilization



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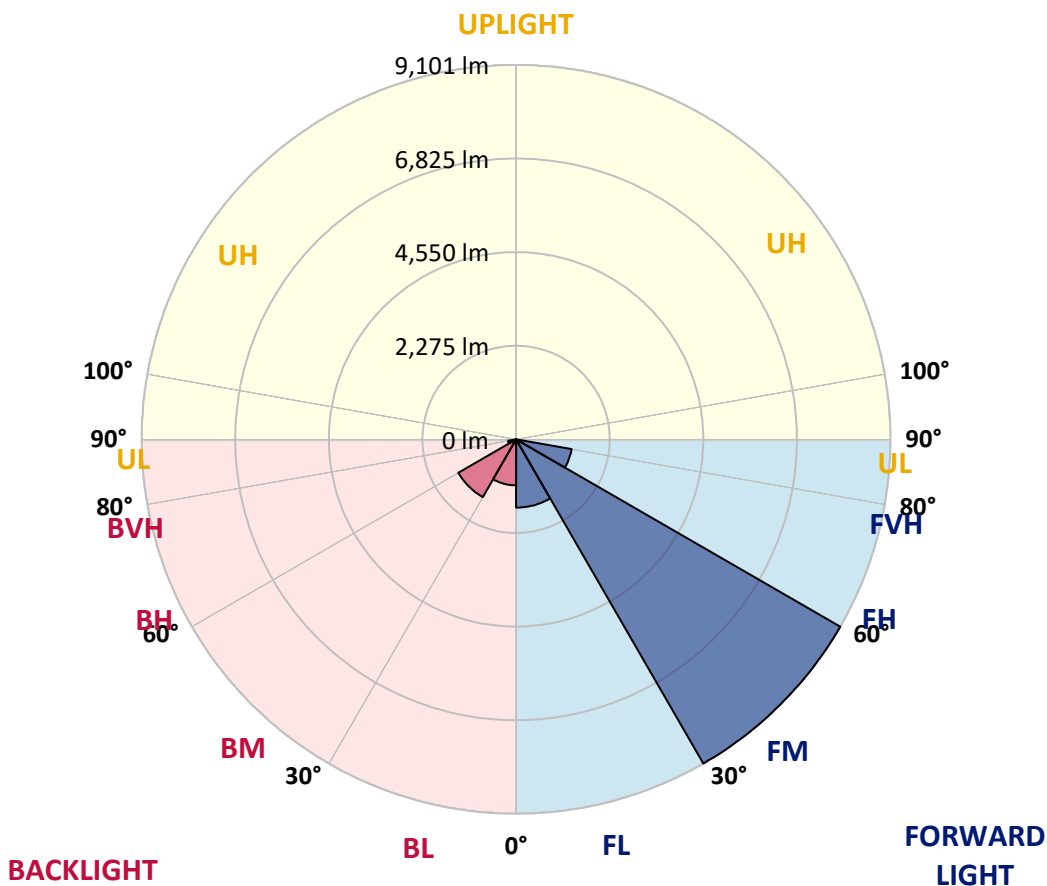
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1658.6	11.0			
FM (30°-60°)	9100.5	60.4			
FH (60°-80°)	1371.4	9.1			G1/1800
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	1118.5	7.4	B3/2500		
BM (30°-60°)	1620.4	10.8	B2/2500		
BH (60°-80°)	195.4	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°	3613.4	3613.4	3613.4	3613.4	3613.4	3613.4	3613.4	3613.4	3613.4	3613.4	3613.4
2.5°	3365.4	3358.5	3372.3	3399.8	3425.6	3434.3	3460.1	3496.3	3518.6	3572.0	3615.1
5°	3213.8	3210.4	3224.1	3248.2	3282.7	3294.7	3334.4	3394.6	3454.9	3547.9	3639.2
7.5°	3076.0	3074.3	3095.0	3148.4	3198.3	3213.8	3262.0	3336.1	3417.0	3560.0	3694.3
10°	2895.2	2896.9	2936.5	3012.3	3103.6	3134.6	3212.1	3318.9	3423.9	3608.2	3794.2
12.5°	2836.6	2840.1	2860.7	2919.3	3019.2	3058.8	3167.3	3329.2	3463.5	3677.1	3923.4
15°	2979.6	2979.6	2962.3	2969.2	3014.0	3050.2	3163.9	3363.6	3530.7	3759.8	4050.8
17.5°	3256.9	3246.5	3203.5	3144.9	3129.4	3141.5	3232.7	3437.7	3625.4	3856.2	4195.5
20°	3632.3	3635.8	3551.4	3429.1	3330.9	3329.2	3384.3	3568.6	3761.5	3971.6	4352.2
22.5°	4087.0	4073.2	3961.3	3794.2	3623.7	3609.9	3632.3	3768.4	3957.8	4154.2	4545.1
25°	4614.0	4607.1	4448.7	4224.8	3999.2	3966.4	3966.4	4100.8	4238.6	4414.2	4775.9
27.5°	5165.2	5165.2	5011.9	4753.5	4453.9	4395.3	4386.7	4545.1	4636.4	4670.9	4970.5
30°	5731.8	5724.9	5573.3	5308.1	4987.8	4927.5	4903.4	5020.5	5085.9	4982.6	5213.4
32.5°	6307.0	6319.1	6165.8	5919.5	5633.6	5594.0	5520.0	5520.0	5573.3	5428.7	5595.7
35°	6925.3	6921.9	6801.3	6634.3	6389.7	6344.9	6222.6	6031.5	6112.4	6048.7	6124.5
37.5°	7471.3	7497.1	7438.6	7314.6	7116.5	7071.7	6870.2	6524.1	6586.1	6685.9	6753.1
40°	8025.9	8046.6	8105.1	8065.5	7815.8	7733.1	7374.9	6806.5	6875.4	7218.1	7411.0
42.5°	8570.1	8580.5	8699.3	8764.8	8430.6	8286.0	7757.2	6978.7	7051.1	7634.9	7972.5
45°	8916.3	8938.7	9135.0	9334.8	8973.2	8775.1	8089.6	7199.2	7230.2	7924.3	8387.6
47.5°	8902.5	8954.2	9322.8	9686.2	9439.9	9226.3	8489.2	7552.3	7500.6	8196.4	8661.4
50°	8625.3	8687.3	9216.0	9793.0	9775.7	9577.7	8933.5	8063.8	7901.9	8437.5	8695.9
52.5°	8050.0	8229.1	9028.3	9806.7	10046.1	9946.3	9483.0	8752.7	8444.4	8783.7	8751.0
55°	6806.5	7027.0	8458.2	9689.6	10290.7	10302.8	10059.9	9470.9	9033.4	9379.6	9090.3
57.5°	5166.9	5342.6	6510.3	8625.3	9886.0	10084.0	10283.8	9849.8	9396.8	9786.1	9169.5
60°	3113.9	3317.1	4076.7	6329.4	7984.6	8322.1	9105.8	9021.4	8475.4	8642.5	7519.5
62.5°	1262.4	1369.2	1882.5	3487.6	5025.7	5340.8	6091.8	6219.2	6084.9	5914.4	4560.6
65°	461.6	504.6	754.4	1441.6	2311.3	2426.7	2822.8	3048.5	3234.5	2753.9	1696.5
67.5°	285.9	313.5	490.9	740.6	840.5	781.9	795.7	949.0	905.9	559.7	303.1
70°	211.8	234.2	384.1	513.2	339.3	261.8	177.4	189.5	170.5	149.8	148.1
72.5°	146.4	167.1	287.6	303.1	130.9	93.0	65.4	91.3	103.3	101.6	105.1
75°	96.4	111.9	180.8	118.8	32.7	25.8	22.4	48.2	62.0	62.0	63.7
77.5°	56.8	65.4	63.7	24.1	6.9	6.9	5.2	8.6	13.8	15.5	18.9
80°	6.9	5.2	3.4	3.4	3.4	3.4	3.4	3.4	5.2	5.2	5.2
82.5°	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4	3.4	5.2	5.2
85°	0.0	0.0	1.7	1.7	3.4	3.4	3.4	3.4	3.4	5.2	5.2
87.5°	0.0	0.0	1.7	1.7	3.4	3.4	3.4	3.4	3.4	5.2	5.2
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°	3613.4	3613.4	3613.4	3613.4	3613.4	3613.4	3613.4	3613.4	3613.4	3613.4	3613.4
2.5°	3647.8	3635.8	3685.7	3721.9	3751.2	3764.9	3746.0	3744.3	3744.3	3706.4	3696.0
5°	3690.9	3696.0	3766.7	3797.7	3802.8	3785.6	3742.5	3713.3	3696.0	3656.4	3634.0
7.5°	3773.5	3790.8	3857.9	3852.8	3806.3	3727.0	3613.4	3525.5	3468.7	3406.7	3368.8
10°	3892.4	3925.1	3966.4	3894.1	3746.0	3544.5	3310.3	3143.2	3043.3	2972.7	2929.6
12.5°	4037.1	4069.8	4056.0	3885.5	3577.2	3217.2	2915.8	2674.7	2559.3	2495.6	2450.8
15°	4183.5	4204.1	4114.6	3782.2	3279.2	2795.3	2459.4	2220.0	2078.8	2027.1	1989.3
17.5°	4333.3	4328.1	4124.9	3578.9	2881.4	2319.9	1989.3	1825.6	1786.0	1777.4	1774.0
20°	4490.0	4443.5	4083.6	3287.9	2402.6	1849.7	1662.0	1672.3	1744.7	1779.1	1786.0
22.5°	4669.1	4552.0	3980.2	2893.5	1913.5	1541.5	1560.4	1662.0	1760.2	1806.7	1813.6
25°	4860.3	4651.9	3808.0	2387.1	1508.7	1417.4	1529.4	1646.5	1751.6	1808.4	1815.3
27.5°	4986.0	4676.0	3525.5	1877.3	1295.2	1369.2	1488.1	1600.0	1708.5	1770.5	1779.1
30°	5122.1	4665.7	3141.5	1446.7	1222.8	1327.9	1431.2	1532.8	1632.7	1701.6	1708.5
32.5°	5321.9	4658.8	2673.0	1174.6	1193.6	1295.2	1370.9	1455.3	1524.2	1563.8	1558.7
35°	5583.7	4650.2	2127.0	1059.2	1176.3	1269.3	1329.6	1369.2	1293.4	1269.3	1274.5
37.5°	5919.5	4670.9	1667.2	1011.0	1171.2	1262.4	1314.1	1200.4	1083.3	1038.5	1031.7
40°	6291.5	4724.3	1271.1	992.0	1188.4	1279.7	1255.6	1067.8	923.1	835.3	816.4
42.5°	6665.3	4782.8	1005.8	985.2	1217.7	1327.9	1159.1	971.4	754.4	704.4	697.5
45°	6942.6	4772.5	869.8	973.1	1243.5	1355.4	1133.3	833.6	673.4	651.0	652.7
47.5°	7082.1	4658.8	795.7	945.5	1253.8	1327.9	1069.5	776.8	618.3	642.4	663.1
50°	7008.0	4364.3	726.8	892.1	1231.4	1291.7	967.9	733.7	590.7	690.6	737.1
52.5°	6918.5	4002.6	651.0	809.5	1178.0	1241.8	928.3	721.6	573.5	666.5	701.0
55°	7037.3	3773.5	527.0	682.0	1073.0	1124.7	897.3	719.9	533.9	518.4	513.2
57.5°	6870.2	3317.1	377.2	490.9	823.3	890.4	874.9	707.9	473.6	471.9	478.8
60°	5309.8	2023.7	258.3	311.7	504.6	568.4	794.0	676.9	408.2	375.5	377.2
62.5°	3017.5	861.1	177.4	192.9	258.3	306.6	606.2	614.9	377.2	358.2	377.2
65°	1050.6	308.3	137.8	129.2	143.0	163.6	347.9	475.4	342.7	310.0	313.5
67.5°	217.0	153.3	122.3	106.8	106.8	106.8	177.4	296.2	282.5	246.3	249.7
70°	137.8	130.9	106.8	91.3	87.8	80.9	101.6	163.6	194.6	179.1	180.8
72.5°	101.6	99.9	84.4	74.1	65.4	58.6	63.7	80.9	99.9	103.3	105.1
75°	62.0	63.7	55.1	46.5	41.3	36.2	37.9	37.9	37.9	34.4	37.9
77.5°	18.9	20.7	17.2	13.8	12.1	12.1	12.1	10.3	8.6	5.2	5.2
80°	5.2	5.2	5.2	5.2	5.2	3.4	3.4	1.7	1.7	0.0	0.0
82.5°	5.2	5.2	5.2	5.2	3.4	3.4	1.7	1.7	0.0	0.0	0.0
85°	5.2	5.2	5.2	5.2	3.4	3.4	1.7	1.7	0.0	0.0	0.0
87.5°	5.2	5.2	5.2	5.2	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)