

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: P636245

Luminaire Tested: GWS-SA3F-735-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636245
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-SA3F-735-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15125 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

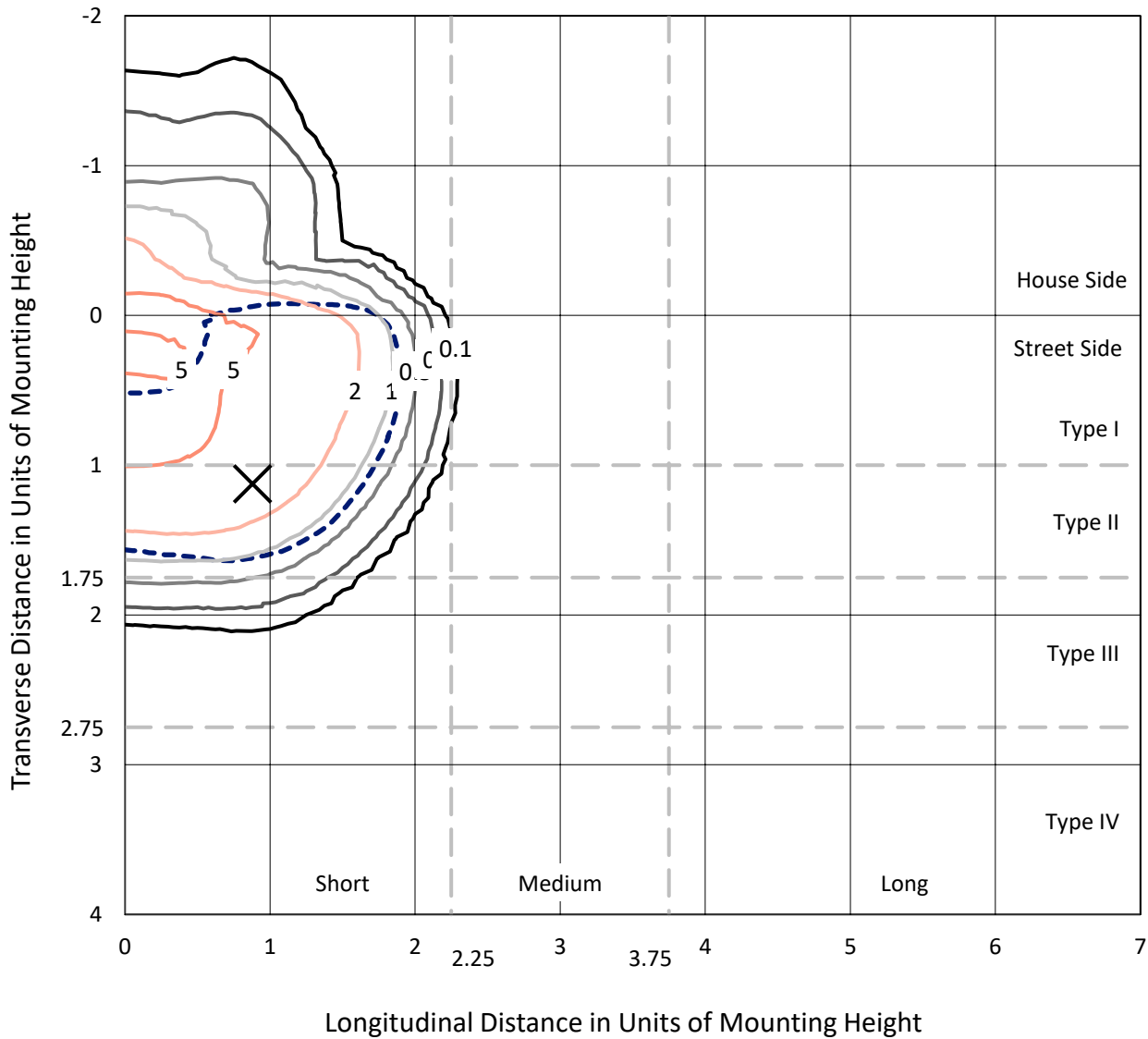
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

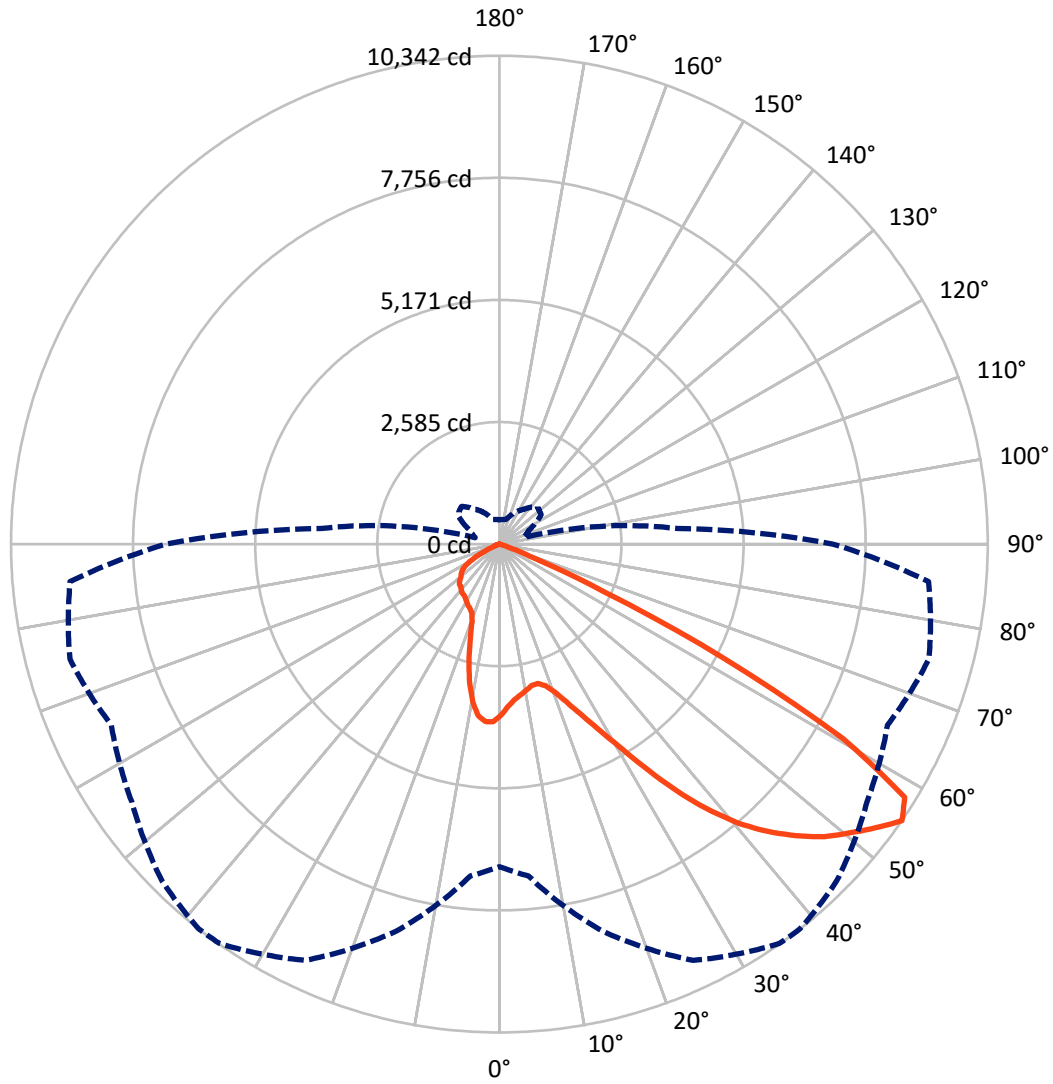
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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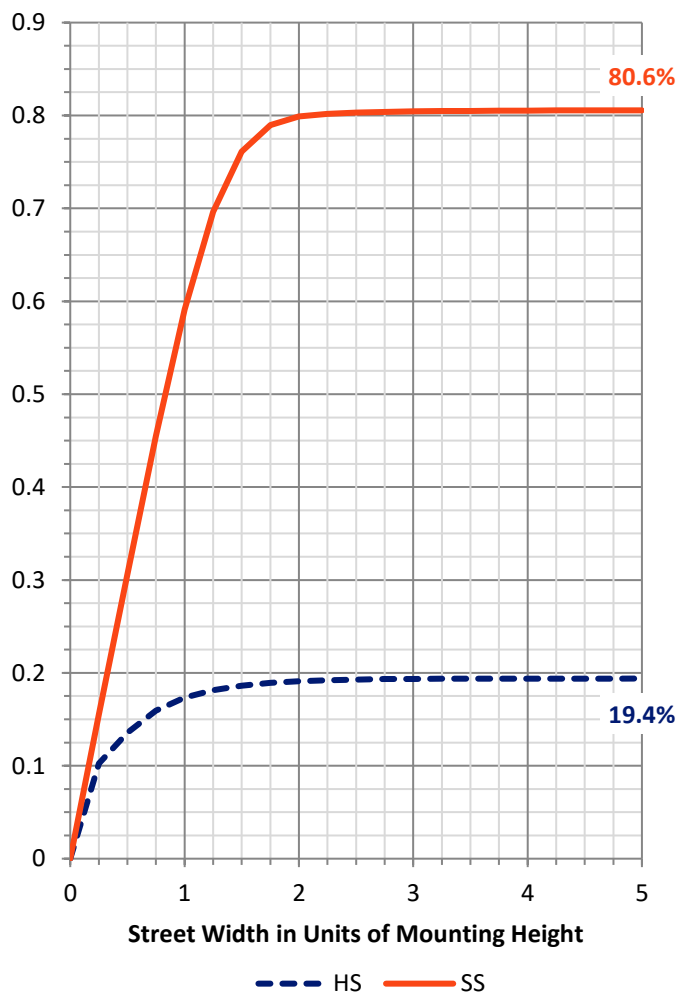
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2946.8	0.0	2946.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	12178.2	0.0	12178.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	15125.0	0.0	15125.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.4	2.2
10°-20°	902.9	6.0
20°-30°	1549.4	10.2
30°-40°	2569.7	17.0
40°-50°	3777.6	25.0
50°-60°	4414.3	29.2
60°-70°	1496.3	9.9
70°-80°	76.5	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°	15125.0	100.0
0°-180°	15125.0	100.0

Coefficient of Utilization



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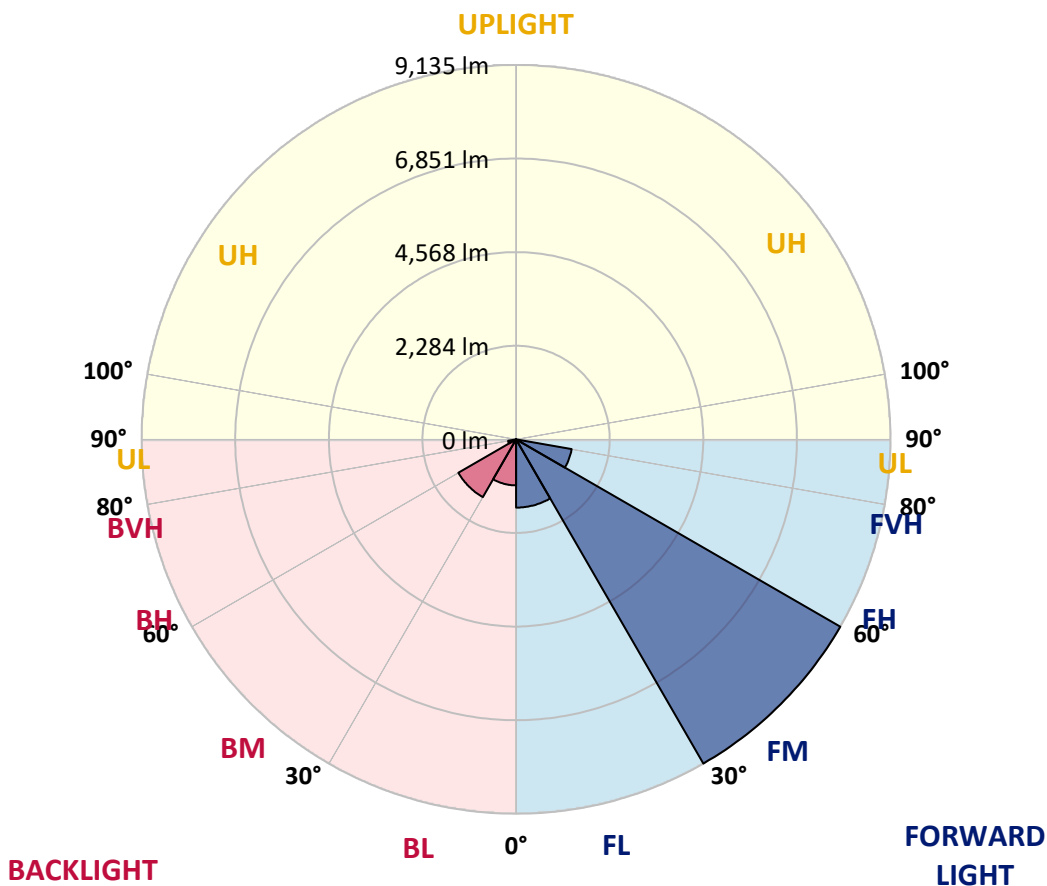
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1664.9	11.0			
FM (30°-60°)	9135.1	60.4			
FH (60°-80°)	1376.6	9.1			G1/1800
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	1122.7	7.4	B3/2500		
BM (30°-60°)	1626.5	10.8	B2/2500		
BH (60°-80°)	196.2	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°	3627.1	3627.1	3627.1	3627.1	3627.1	3627.1	3627.1	3627.1	3627.1	3627.1	3627.1
2.5°	3378.1	3371.2	3385.1	3412.7	3438.6	3447.3	3473.2	3509.5	3532.0	3585.6	3628.8
5°	3226.0	3222.5	3236.4	3260.6	3295.2	3307.3	3347.0	3407.5	3468.0	3561.4	3653.0
7.5°	3087.7	3086.0	3106.7	3160.3	3210.4	3226.0	3274.4	3348.7	3430.0	3573.5	3708.3
10°	2906.2	2907.9	2947.7	3023.7	3115.4	3146.5	3224.3	3331.5	3436.9	3621.9	3808.6
12.5°	2847.4	2850.8	2871.6	2930.4	3030.6	3070.4	3179.3	3341.8	3476.7	3691.1	3938.3
15°	2990.9	2990.9	2973.6	2980.5	3025.5	3061.8	3175.9	3376.4	3544.1	3774.0	4066.2
17.5°	3269.2	3258.8	3215.6	3156.8	3141.3	3153.4	3245.0	3450.7	3639.2	3870.9	4211.4
20°	3646.1	3649.6	3564.9	3442.1	3343.6	3341.8	3397.2	3582.1	3775.8	3986.7	4368.8
22.5°	4102.5	4088.7	3976.3	3808.6	3637.5	3623.6	3646.1	3782.7	3972.9	4169.9	4562.4
25°	4631.5	4624.6	4465.6	4240.8	4014.3	3981.5	3981.5	4116.4	4254.7	4431.0	4794.1
27.5°	5184.8	5184.8	5030.9	4771.6	4470.8	4412.0	4403.3	4562.4	4654.0	4688.6	4989.4
30°	5753.6	5746.6	5594.5	5328.3	5006.7	4946.2	4922.0	5039.5	5105.2	5001.5	5233.2
32.5°	6331.0	6343.1	6189.2	5942.0	5655.0	5615.2	5540.9	5540.9	5594.5	5449.3	5617.0
35°	6951.6	6948.2	6827.2	6659.5	6414.0	6369.0	6246.3	6054.4	6135.6	6071.7	6147.7
37.5°	7499.7	7525.6	7466.8	7342.4	7143.5	7098.6	6896.3	6548.8	6611.1	6711.3	6778.8
40°	8056.4	8077.1	8135.9	8096.1	7845.4	7762.5	7402.9	6832.3	6901.5	7245.5	7439.2
42.5°	8602.7	8613.0	8732.3	8798.0	8462.6	8317.4	7786.7	7005.2	7077.8	7663.9	8002.8
45°	8950.2	8972.6	9169.7	9370.3	9007.2	8808.4	8120.3	7226.5	7257.6	7954.4	8419.4
47.5°	8936.3	8988.2	9358.2	9723.0	9475.7	9261.4	8521.4	7580.9	7529.1	8227.5	8694.3
50°	8658.0	8720.2	9251.0	9830.1	9812.9	9614.0	8967.5	8094.4	7931.9	8469.6	8728.9
52.5°	8080.6	8260.4	9062.5	9844.0	10084.3	9984.0	9519.0	8785.9	8476.5	8817.0	8784.2
55°	6832.3	7053.6	8490.3	9726.4	10329.8	10341.9	10098.1	9506.9	9067.7	9415.2	9124.8
57.5°	5186.5	5362.8	6535.0	8658.0	9923.5	10122.3	10322.9	9887.2	9432.5	9823.2	9204.3
60°	3125.7	3329.7	4092.1	6353.5	8014.9	8353.7	9140.3	9055.6	8507.6	8675.3	7548.1
62.5°	1267.2	1374.4	1889.6	3500.9	5044.7	5361.1	6114.9	6242.8	6108.0	5936.8	4577.9
65°	463.3	506.5	757.2	1447.0	2320.1	2435.9	2833.6	3060.0	3246.7	2764.4	1702.9
67.5°	287.0	314.6	492.7	743.4	843.7	784.9	798.7	952.6	909.4	561.9	304.3
70°	212.6	235.1	385.5	515.2	340.6	262.8	178.1	190.2	171.2	150.4	148.7
72.5°	147.0	167.7	288.7	304.3	131.4	93.4	65.7	91.6	103.7	102.0	105.5
75°	96.8	112.4	181.5	119.3	32.8	25.9	22.5	48.4	62.2	62.2	64.0
77.5°	57.1	65.7	64.0	24.2	6.9	6.9	5.2	8.6	13.8	15.6	19.0
80°	6.9	5.2	3.5	3.5	3.5	3.5	3.5	3.5	5.2	5.2	5.2
82.5°	1.7	1.7	1.7	3.5	3.5	3.5	3.5	3.5	3.5	5.2	5.2
85°	0.0	0.0	1.7	1.7	3.5	3.5	3.5	3.5	3.5	5.2	5.2
87.5°	0.0	0.0	1.7	1.7	3.5	3.5	3.5	3.5	3.5	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°	3627.1	3627.1	3627.1	3627.1	3627.1	3627.1	3627.1	3627.1	3627.1	3627.1	3627.1
2.5°	3661.7	3649.6	3699.7	3736.0	3765.4	3779.2	3760.2	3758.5	3758.5	3720.4	3710.1
5°	3704.9	3710.1	3781.0	3812.1	3817.3	3800.0	3756.8	3727.4	3710.1	3670.3	3647.8
7.5°	3787.9	3805.2	3872.6	3867.4	3820.7	3741.2	3627.1	3538.9	3481.9	3419.6	3381.6
10°	3907.2	3940.0	3981.5	3908.9	3760.2	3557.9	3322.8	3155.1	3054.8	2984.0	2940.7
12.5°	4052.4	4085.2	4071.4	3900.2	3590.8	3229.5	2926.9	2684.9	2569.0	2505.1	2460.1
15°	4199.3	4220.1	4130.2	3796.5	3291.7	2805.9	2468.8	2228.5	2086.7	2034.8	1996.8
17.5°	4349.7	4344.6	4140.6	3592.5	2892.3	2328.7	1996.8	1832.6	1792.8	1784.2	1780.7
20°	4507.1	4460.4	4099.1	3300.3	2411.7	1856.8	1668.3	1678.7	1751.3	1785.9	1792.8
22.5°	4686.9	4569.3	3995.3	2904.4	1920.7	1547.3	1566.3	1668.3	1766.9	1813.5	1820.5
25°	4878.8	4669.6	3822.4	2396.2	1514.5	1422.8	1535.2	1652.8	1758.2	1815.3	1822.2
27.5°	5005.0	4693.8	3538.9	1884.4	1300.1	1374.4	1493.7	1606.1	1715.0	1777.2	1785.9
30°	5141.5	4683.4	3153.4	1452.2	1227.5	1332.9	1436.7	1538.7	1638.9	1708.1	1715.0
32.5°	5342.1	4676.5	2683.1	1179.1	1198.1	1300.1	1376.2	1460.9	1530.0	1569.8	1564.6
35°	5604.9	4667.8	2135.1	1063.2	1180.8	1274.1	1334.7	1374.4	1298.4	1274.1	1279.3
37.5°	5942.0	4688.6	1673.5	1014.8	1175.6	1267.2	1319.1	1205.0	1087.4	1042.5	1035.6
40°	6315.4	4742.2	1275.9	995.8	1192.9	1284.5	1260.3	1071.9	926.7	838.5	819.5
42.5°	6690.6	4801.0	1009.6	988.9	1222.3	1332.9	1163.5	975.1	757.2	707.1	700.2
45°	6968.9	4790.6	873.1	976.8	1248.2	1360.6	1137.6	836.8	676.0	653.5	655.2
47.5°	7109.0	4676.5	798.7	949.1	1258.6	1332.9	1073.6	779.7	620.7	644.9	665.6
50°	7034.6	4380.9	729.6	895.5	1236.1	1296.6	971.6	736.5	593.0	693.3	739.9
52.5°	6944.7	4017.8	653.5	812.6	1182.5	1246.5	931.8	724.4	575.7	669.1	703.6
55°	7064.0	3787.9	529.0	684.6	1077.1	1128.9	900.7	722.7	535.9	520.4	515.2
57.5°	6896.3	3329.7	378.6	492.7	826.4	893.8	878.2	710.6	475.4	473.7	480.6
60°	5330.0	2031.4	259.3	312.9	506.5	570.5	797.0	679.4	409.7	376.9	378.6
62.5°	3028.9	864.4	178.1	193.6	259.3	307.7	608.5	617.2	378.6	359.6	378.6
65°	1054.6	309.5	138.3	129.7	143.5	164.2	349.2	477.2	344.0	311.2	314.6
67.5°	217.8	153.9	122.7	107.2	107.2	107.2	178.1	297.4	283.5	247.2	250.7
70°	138.3	131.4	107.2	91.6	88.2	81.3	102.0	164.2	195.4	179.8	181.5
72.5°	102.0	100.3	84.7	74.3	65.7	58.8	64.0	81.3	100.3	103.7	105.5
75°	62.2	64.0	55.3	46.7	41.5	36.3	38.0	38.0	38.0	34.6	38.0
77.5°	19.0	20.7	17.3	13.8	12.1	12.1	12.1	10.4	8.6	5.2	5.2
80°	5.2	5.2	5.2	5.2	5.2	3.5	3.5	1.7	1.7	0.0	0.0
82.5°	5.2	5.2	5.2	5.2	3.5	3.5	1.7	1.7	0.0	0.0	0.0
85°	5.2	5.2	5.2	5.2	3.5	3.5	1.7	1.7	0.0	0.0	0.0
87.5°	5.2	5.2	5.2	5.2	3.5	3.5	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)