

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: P637290

Luminaire Tested: GWS-SA4C-740-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637290
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-SA4C-740-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12174.8 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

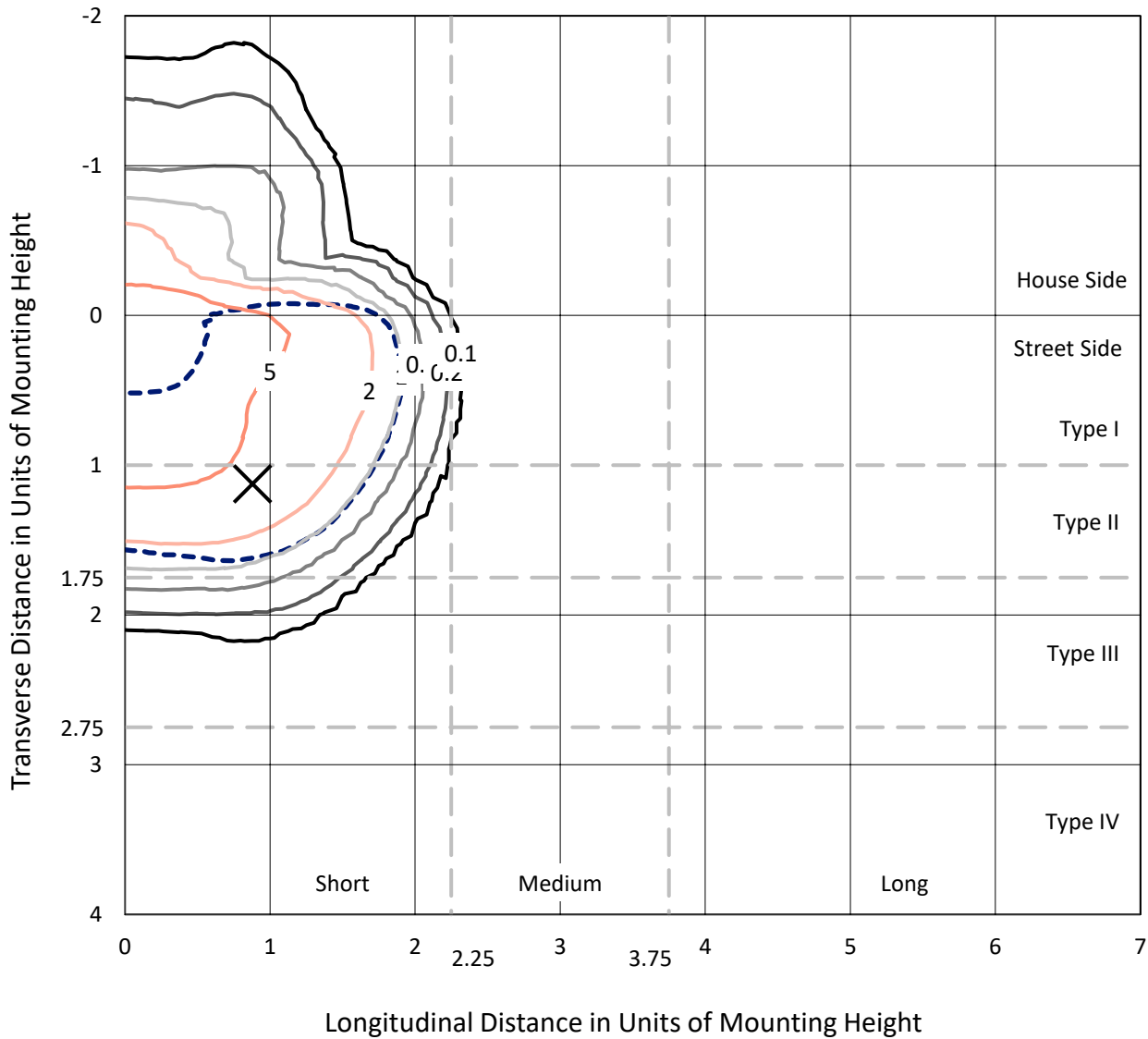
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

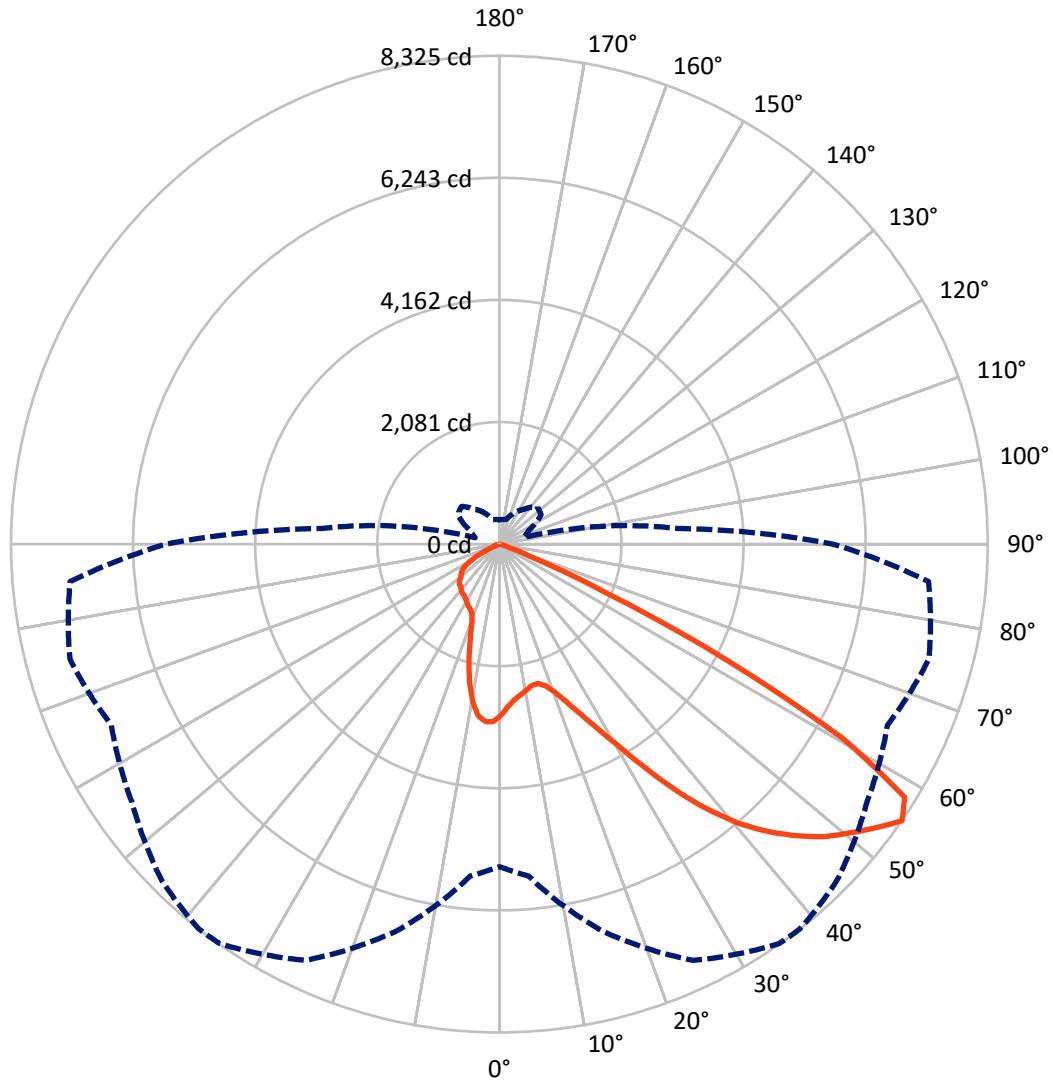
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 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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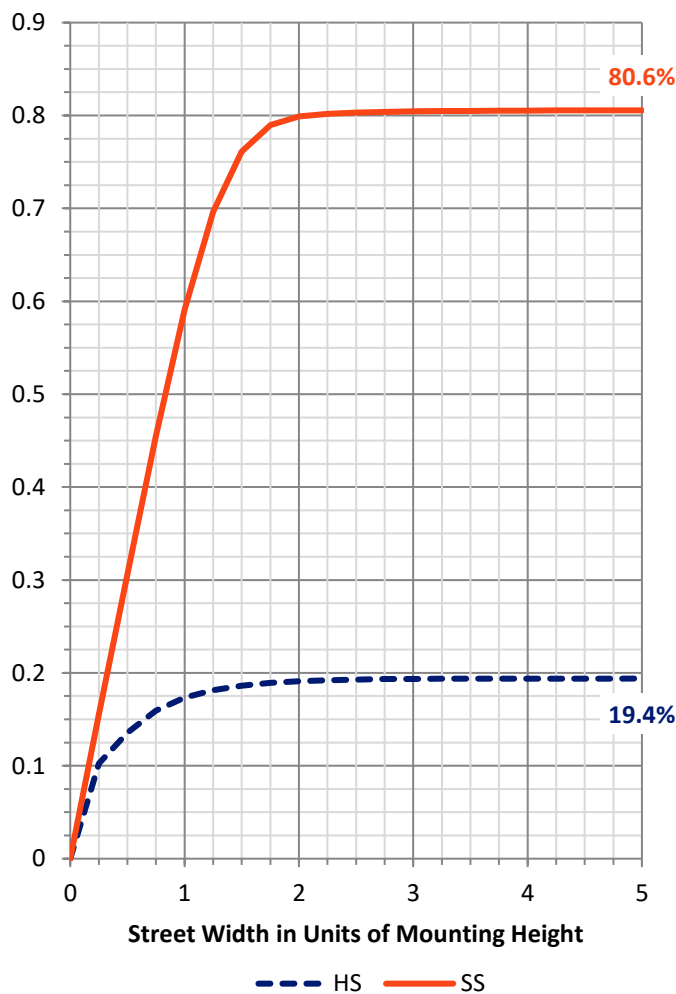
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2372.0	0.0	2372.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	9802.8	0.0	9802.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	12174.8	0.0	12174.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.0	2.2
10°-20°	726.8	6.0
20°-30°	1247.2	10.2
30°-40°	2068.5	17.0
40°-50°	3040.8	25.0
50°-60°	3553.2	29.2
60°-70°	1204.4	9.9
70°-80°	61.6	0.5
80°-90°	2.4	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°	12174.8	100.0
0°-180°	12174.8	100.0

Coefficient of Utilization



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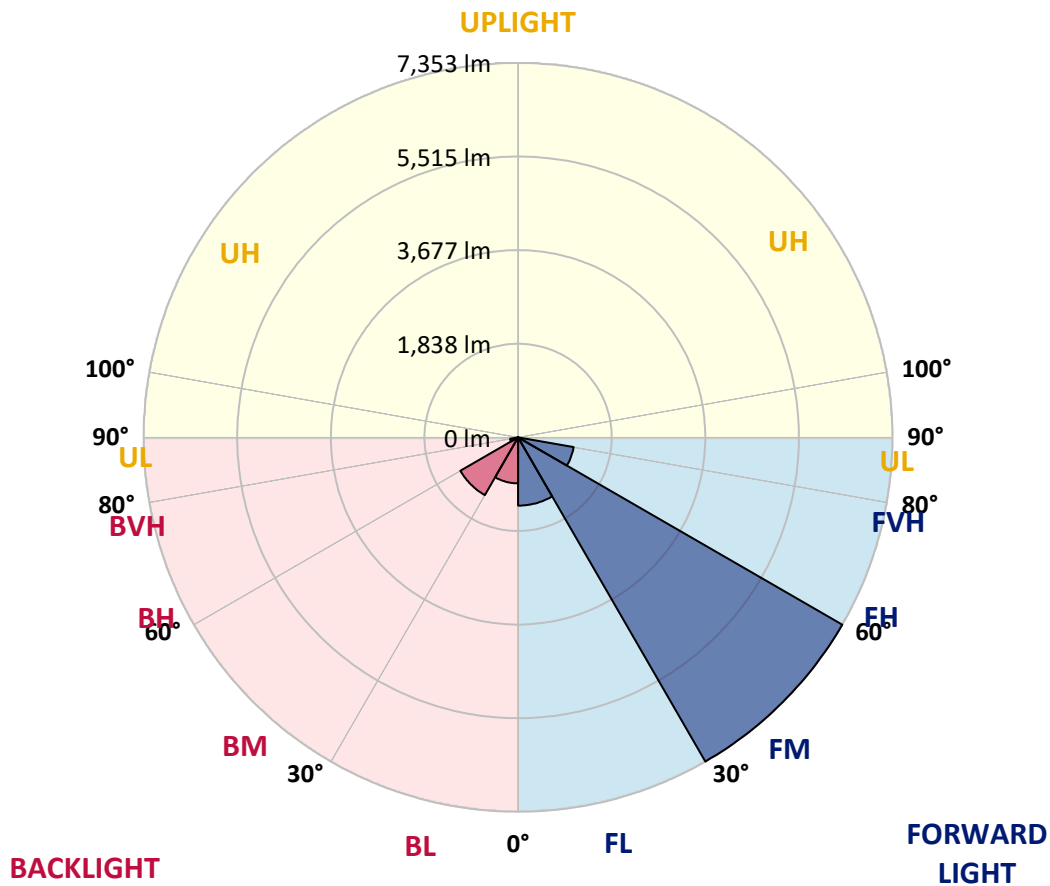
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1340.2	11.0			
FM (30°-60°)	7353.2	60.4			
FH (60°-80°)	1108.1	9.1			G1/1800
FVH (80°-90°)	1.3	0.0			G0/10
BL (0°-30°)	903.7	7.4	B2/1000		
BM (30°-60°)	1309.3	10.8	B2/2500		
BH (60°-80°)	157.9	1.3	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2919.6	2919.6	2919.6	2919.6	2919.6	2919.6	2919.6	2919.6	2919.6	2919.6	2919.6
2.5°	2719.2	2713.7	2724.8	2747.0	2767.9	2774.9	2795.8	2825.0	2843.1	2886.2	2921.0
5°	2596.8	2594.0	2605.1	2624.6	2652.4	2662.2	2694.2	2742.9	2791.6	2866.7	2940.5
7.5°	2485.4	2484.0	2500.7	2543.9	2584.2	2596.8	2635.7	2695.6	2761.0	2876.5	2985.0
10°	2339.3	2340.7	2372.7	2433.9	2507.7	2532.7	2595.4	2681.6	2766.5	2915.4	3065.7
12.5°	2292.0	2294.8	2311.5	2358.8	2439.5	2471.5	2559.2	2690.0	2798.5	2971.1	3170.1
15°	2407.5	2407.5	2393.6	2399.1	2435.3	2464.6	2556.4	2717.8	2852.8	3037.9	3273.1
17.5°	2631.5	2623.2	2588.4	2541.1	2528.6	2538.3	2612.1	2777.7	2929.4	3115.8	3390.0
20°	2934.9	2937.7	2869.5	2770.7	2691.4	2690.0	2734.5	2883.4	3039.3	3209.1	3516.6
22.5°	3302.3	3291.2	3200.7	3065.7	2928.0	2916.8	2934.9	3044.9	3197.9	3356.6	3672.5
25°	3728.1	3722.6	3594.5	3413.6	3231.3	3204.9	3204.9	3313.4	3424.8	3566.7	3859.0
27.5°	4173.5	4173.5	4049.6	3840.9	3598.7	3551.4	3544.4	3672.5	3746.2	3774.1	4016.2
30°	4631.3	4625.7	4503.3	4289.0	4030.1	3981.4	3961.9	4056.6	4109.4	4025.9	4212.4
32.5°	5096.1	5105.8	4982.0	4783.0	4552.0	4520.0	4460.1	4460.1	4503.3	4386.4	4521.4
35°	5595.7	5592.9	5495.5	5360.5	5162.9	5126.7	5027.9	4873.4	4938.8	4887.4	4948.6
37.5°	6036.8	6057.7	6010.4	5910.2	5750.2	5714.0	5551.2	5271.4	5321.5	5402.3	5456.5
40°	6484.9	6501.6	6548.9	6516.9	6315.2	6248.4	5958.9	5499.7	5555.3	5832.3	5988.1
42.5°	6924.7	6933.0	7029.1	7081.9	6812.0	6695.1	6267.8	5638.8	5697.3	6169.0	6441.8
45°	7204.4	7222.5	7381.1	7542.6	7250.3	7090.3	6536.4	5817.0	5842.0	6402.8	6777.2
47.5°	7193.3	7235.0	7532.8	7826.4	7627.4	7454.9	6859.3	6102.2	6060.5	6622.7	6998.4
50°	6969.2	7019.3	7446.5	7912.7	7898.8	7738.8	7218.3	6515.5	6384.7	6817.5	7026.3
52.5°	6504.4	6649.1	7294.9	7923.9	8117.3	8036.6	7662.2	7072.2	6823.1	7097.2	7070.8
55°	5499.7	5677.8	6834.2	7829.2	8314.9	8324.6	8128.4	7652.5	7299.0	7578.7	7344.9
57.5°	4174.8	4316.8	5260.3	6969.2	7987.9	8147.9	8309.3	7958.7	7592.7	7907.2	7409.0
60°	2516.0	2680.3	3294.0	5114.2	6451.5	6724.3	7357.5	7289.3	6848.1	6983.1	6075.8
62.5°	1020.1	1106.3	1521.0	2818.0	4060.7	4315.4	4922.1	5025.1	4916.6	4778.8	3685.0
65°	373.0	407.7	609.5	1164.8	1867.5	1960.8	2280.9	2463.2	2613.5	2225.2	1370.7
67.5°	231.0	253.3	396.6	598.4	679.1	631.8	642.9	766.8	732.0	452.3	244.9
70°	171.2	189.3	310.3	414.7	274.1	211.5	143.3	153.1	137.8	121.1	119.7
72.5°	118.3	135.0	232.4	244.9	105.8	75.1	52.9	73.8	83.5	82.1	84.9
75°	77.9	90.5	146.1	96.0	26.4	20.9	18.1	39.0	50.1	50.1	51.5
77.5°	45.9	52.9	51.5	19.5	5.6	5.6	4.2	7.0	11.1	12.5	15.3
80°	5.6	4.2	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2	4.2
82.5°	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2
85°	0.0	0.0	1.4	1.4	2.8	2.8	2.8	2.8	2.8	4.2	4.2
87.5°	0.0	0.0	1.4	1.4	2.8	2.8	2.8	2.8	2.8	4.2	4.2
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°	2919.6	2919.6	2919.6	2919.6	2919.6	2919.6	2919.6	2919.6	2919.6	2919.6	2919.6
2.5°	2947.4	2937.7	2978.1	3007.3	3030.9	3042.1	3026.8	3025.4	3025.4	2994.8	2986.4
5°	2982.2	2986.4	3043.5	3068.5	3072.7	3058.8	3024.0	3000.3	2986.4	2954.4	2936.3
7.5°	3049.0	3062.9	3117.2	3113.0	3075.5	3011.5	2919.6	2848.6	2802.7	2752.6	2722.0
10°	3145.1	3171.5	3204.9	3146.4	3026.8	2863.9	2674.7	2539.7	2459.0	2401.9	2367.1
12.5°	3261.9	3288.4	3277.3	3139.5	2890.4	2599.5	2356.0	2161.2	2067.9	2016.5	1980.3
15°	3380.2	3396.9	3324.6	3056.0	2649.6	2258.6	1987.2	1793.8	1679.7	1637.9	1607.3
17.5°	3501.3	3497.1	3332.9	2891.8	2328.2	1874.5	1607.3	1475.1	1443.1	1436.1	1433.4
20°	3627.9	3590.4	3299.5	2656.6	1941.3	1494.6	1342.9	1351.3	1409.7	1437.5	1443.1
22.5°	3772.7	3678.0	3216.0	2337.9	1546.1	1245.5	1260.8	1342.9	1422.2	1459.8	1465.4
25°	3927.1	3758.8	3076.9	1928.8	1219.1	1145.3	1235.8	1330.4	1415.3	1461.2	1466.8
27.5°	4028.7	3778.2	2848.6	1516.9	1046.5	1106.3	1202.4	1292.8	1380.5	1430.6	1437.5
30°	4138.7	3769.9	2538.3	1169.0	988.0	1072.9	1156.4	1238.5	1319.3	1374.9	1380.5
32.5°	4300.1	3764.3	2159.8	949.1	964.4	1046.5	1107.7	1175.9	1231.6	1263.6	1259.4
35°	4511.6	3757.4	1718.6	855.8	950.5	1025.6	1074.3	1106.3	1045.1	1025.6	1029.8
37.5°	4783.0	3774.1	1347.1	816.9	946.3	1020.1	1061.8	970.0	875.3	839.1	833.6
40°	5083.6	3817.2	1027.0	801.6	960.2	1034.0	1014.5	862.8	745.9	674.9	659.6
42.5°	5385.6	3864.5	812.7	796.0	983.9	1072.9	936.6	784.9	609.5	569.2	563.6
45°	5609.6	3856.2	702.8	786.3	1004.7	1095.2	915.7	673.5	544.1	526.0	527.4
47.5°	5722.3	3764.3	642.9	764.0	1013.1	1072.9	864.2	627.6	499.6	519.1	535.8
50°	5662.5	3526.4	587.3	720.9	995.0	1043.7	782.1	592.8	477.3	558.0	595.6
52.5°	5590.1	3234.1	526.0	654.1	951.9	1003.4	750.1	583.1	463.4	538.6	566.4
55°	5686.1	3049.0	425.8	551.1	867.0	908.7	725.0	581.7	431.4	418.9	414.7
57.5°	5551.2	2680.3	304.8	396.6	665.2	719.5	706.9	572.0	382.7	381.3	386.9
60°	4290.4	1635.1	208.7	251.9	407.7	459.2	641.5	546.9	329.8	303.4	304.8
62.5°	2438.1	695.8	143.3	155.9	208.7	247.7	489.8	496.8	304.8	289.5	304.8
65°	848.9	249.1	111.3	104.4	115.5	132.2	281.1	384.1	276.9	250.5	253.3
67.5°	175.3	123.9	98.8	86.3	86.3	86.3	143.3	239.4	228.2	199.0	201.8
70°	111.3	105.8	86.3	73.8	71.0	65.4	82.1	132.2	157.3	144.7	146.1
72.5°	82.1	80.7	68.2	59.8	52.9	47.3	51.5	65.4	80.7	83.5	84.9
75°	50.1	51.5	44.5	37.6	33.4	29.2	30.6	30.6	30.6	27.8	30.6
77.5°	15.3	16.7	13.9	11.1	9.7	9.7	9.7	8.3	7.0	4.2	4.2
80°	4.2	4.2	4.2	4.2	4.2	2.8	2.8	1.4	1.4	0.0	0.0
82.5°	4.2	4.2	4.2	4.2	2.8	2.8	1.4	1.4	0.0	0.0	0.0
85°	4.2	4.2	4.2	4.2	2.8	2.8	1.4	1.4	0.0	0.0	0.0
87.5°	4.2	4.2	4.2	4.2	2.8	2.8	1.4	1.4	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)