

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: ITL53961_250MP

Luminaire Tested: **GSM-XX-250-MP-XX-2S-FG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: ITL53961_250MP
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GSM-XX-250-MP-XX-2S-FG
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE - TYPE II DISTRIBUTION
Light Source: 250 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 22000 (1 lamp)
Luminaire Lumens: 16127.5 lumens
Efficiency: 73.3%
Efficacy: 57.0 lumens/watt
Luminous Opening: Circular (Dia: 1.74' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

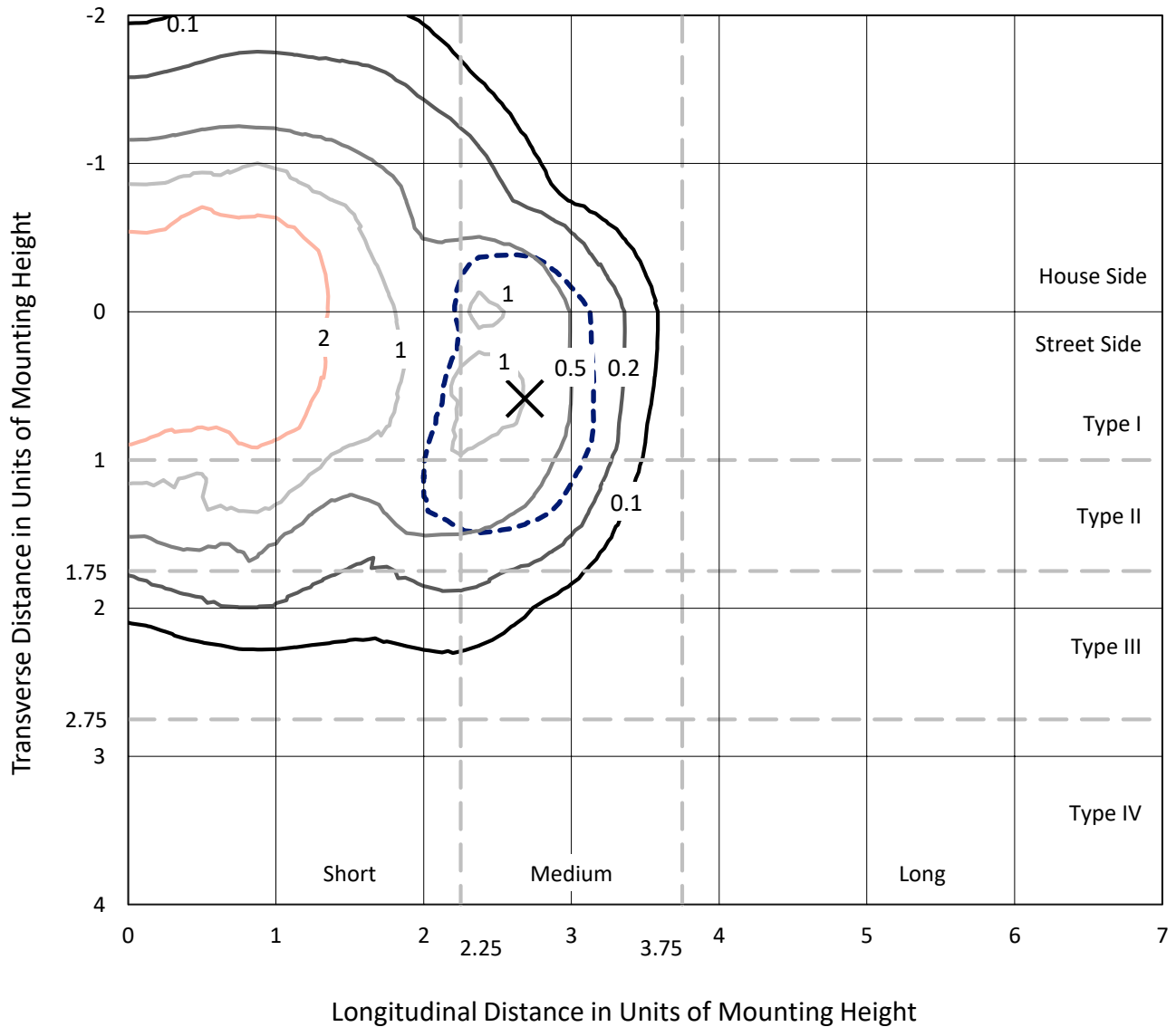
Input Watts (W): 283
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

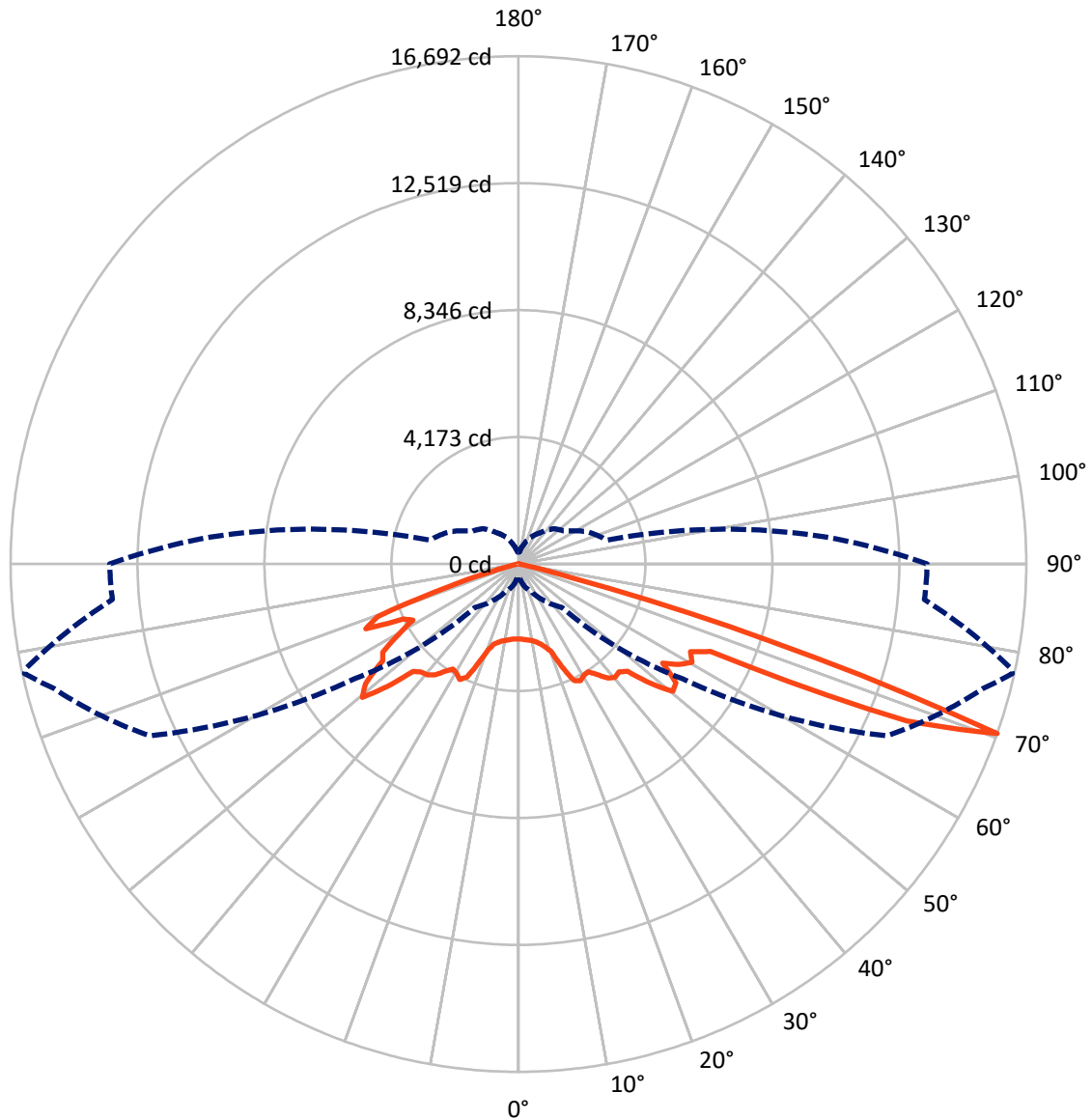
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.7-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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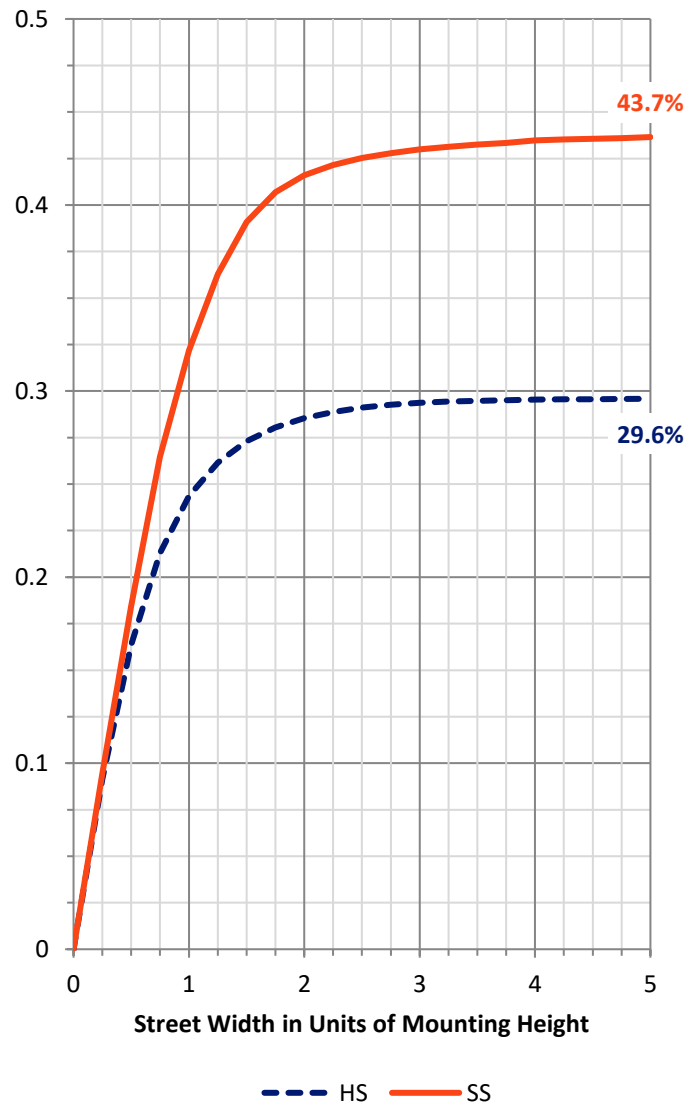
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6537.3	0.0	6537.3
	% Lamp	29.7	0.0	29.7
Street Side	Lumens	9590.3	0.0	9590.3
	% Lamp	43.6	0.0	43.6
Total	Lumens	16127.5	0.0	16127.5
	% Lamp	73.3	0.0	73.3

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	235.7	1.5	1.1
10°-20°	714.2	4.4	3.2
20°-30°	1438.9	8.9	6.5
30°-40°	2230.5	13.8	10.1
40°-50°	2853.0	17.7	13.0
50°-60°	3460.4	21.5	15.7
60°-70°	3506.2	21.7	15.9
70°-80°	1636.3	10.1	7.4
80°-90°	52.3	0.3	0.2
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	16127.5	100.0	73.3
0°-180°	16127.5	100.0	73.3

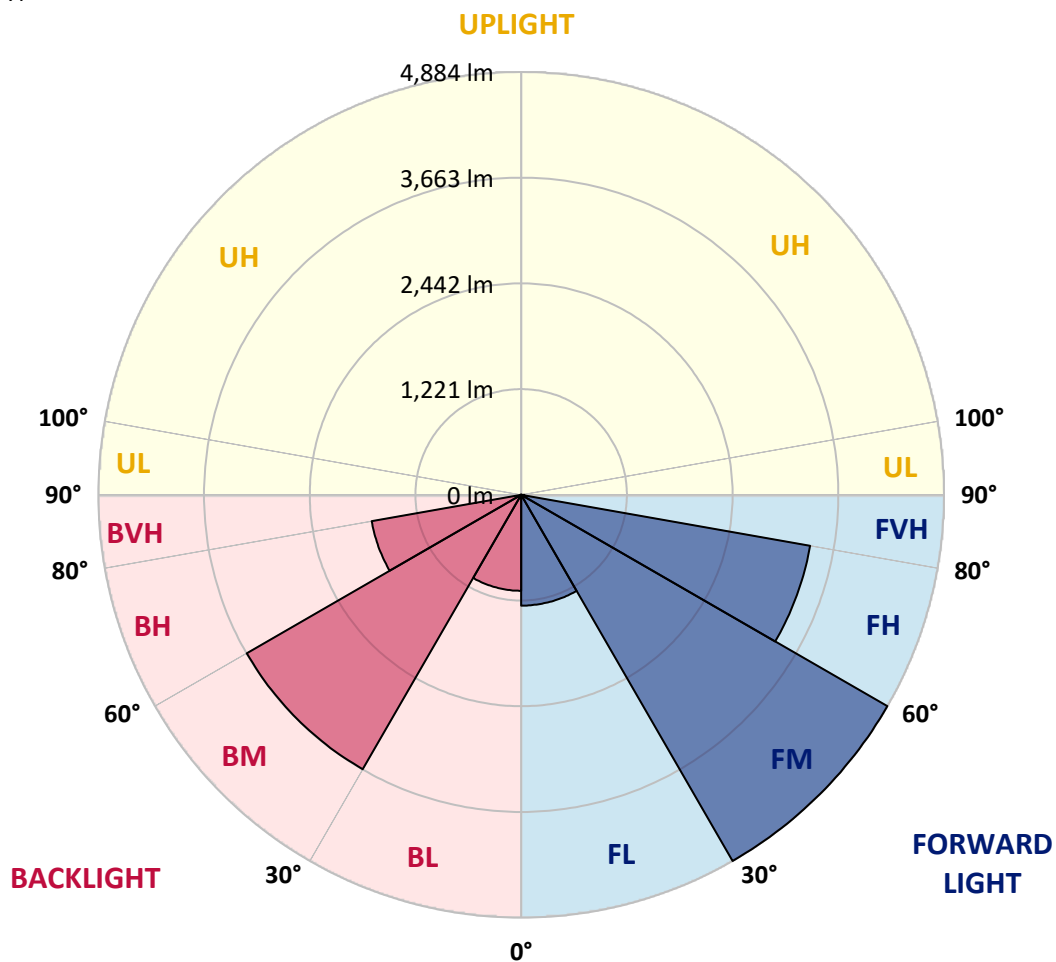


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1280.2	5.8			
FM (30°-60°)	4883.9	22.2			
FH (60°-80°)	3388.8	15.4			G2/5000
FVH (80°-90°)	37.4	0.2			G1/100
BL (0°-30°)	1108.7	5.0	B3/2500		
BM (30°-60°)	3660.0	16.6	B3/5000		
BH (60°-80°)	1753.7	8.0	B3/2500		G3/2500
BVH (80°-90°)	15.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	5872.5	26.7			

BUG Rating: B3-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.7°	85°
0°	2460.8	2460.8	2460.8	2460.8	2460.8	2460.8	2460.8	2460.8	2460.8	2460.8	2460.8
2.5°	2512.3	2512.3	2512.3	2500.5	2500.5	2486.5	2500.5	2486.5	2486.5	2474.7	2474.7
5°	2564.9	2564.9	2526.2	2526.2	2526.2	2538.0	2538.0	2512.3	2500.5	2500.5	2500.5
7.5°	2589.6	2564.9	2526.2	2538.0	2538.0	2538.0	2526.2	2526.2	2526.2	2526.2	2526.2
10°	2538.0	2538.0	2512.3	2538.0	2564.9	2538.0	2550.9	2538.0	2564.9	2564.9	2564.9
12.5°	2486.5	2512.3	2526.2	2550.9	2564.9	2550.9	2589.6	2615.3	2628.2	2628.2	2628.2
15°	2461.9	2461.9	2474.7	2538.0	2550.9	2602.4	2679.7	2744.1	2744.1	2730.1	2730.1
17.5°	2461.9	2461.9	2486.5	2526.2	2564.9	2679.7	2768.8	2833.2	2833.2	2871.8	2846.0
20°	2538.0	2512.3	2512.3	2564.9	2654.0	2730.1	2846.0	2949.1	3012.4	3063.9	3102.5
22.5°	2820.3	2730.1	2666.8	2679.7	2782.7	2846.0	2987.7	3231.3	3499.6	3667.0	3717.5
25°	3256.0	3115.4	3026.3	2973.8	2909.4	3038.1	3359.0	3769.0	4077.0	4243.3	4218.6
27.5°	3667.0	3525.4	3359.0	3384.8	3102.5	3333.3	3820.5	4192.9	4319.5	4346.3	4282.0
30°	3949.3	3833.4	3525.4	3384.8	3294.6	3641.3	4154.2	4282.0	4307.7	4243.3	4192.9
32.5°	3999.7	3949.3	3589.8	3217.4	3473.9	4013.7	4257.3	4269.1	4230.4	4218.6	4230.4
35°	3846.2	3858.0	3281.8	3281.8	3858.0	4307.7	4243.3	4204.7	4410.7	4461.2	4499.8
37.5°	3614.4	3589.8	2871.8	3281.8	3896.7	4436.5	4269.1	4577.1	4718.7	4756.3	4769.2
40°	3333.3	3231.3	2654.0	3191.6	3717.5	4359.2	4743.4	4898.0	4872.2	4898.0	4872.2
42.5°	2897.6	2833.2	2486.5	2654.0	3294.6	4307.7	5063.2	4987.0	4884.0	4845.4	4756.3
45°	2436.1	2384.6	2282.6	2321.3	2962.0	4383.9	5448.5	5448.5	5012.8	5025.7	4756.3
47.5°	2384.6	2410.3	2103.4	2244.0	3294.6	4627.5	5820.9	6243.7	5512.9	5871.3	5795.1
50°	2076.6	2115.2	2371.7	2244.0	3858.0	5589.1	5614.8	6153.6	6397.2	6576.4	6935.9
52.5°	2153.9	1948.9	2755.9	2538.0	4243.3	5153.4	6781.4	6576.4	6666.5	6487.3	5987.2
55°	2358.8	2179.6	3153.0	3678.8	6050.5	4601.8	6153.6	5935.7	5935.7	5756.5	4922.6
57.5°	1538.9	1756.8	2679.7	2423.2	5243.5	5051.4	5371.2	5641.7	6294.1	6230.8	5423.8
60°	1102.1	1243.8	2141.0	2333.1	3244.2	3692.8	4269.1	6397.2	6473.4	6551.7	6128.9
62.5°	922.9	1013.1	1499.2	3435.2	2602.4	2358.8	3872.0	6411.1	6090.2	6346.7	5320.8
65°	743.7	808.1	1166.5	1859.8	1910.2	2076.6	4781.0	6627.9	6384.3	6923.0	5692.1
67.5°	590.2	666.4	936.9	1320.0	1616.2	2063.7	7423.1	11127.7	12037.8	13768.8	10653.4
70°	385.3	461.5	755.5	1000.2	1460.6	2013.3	6564.6	13357.8	15807.8	16692.1	13397.5
72.5°	179.2	243.6	846.7	487.2	1628.0	2436.1	3576.9	8050.9	9281.9	8602.5	7666.7
75°	103.0	167.4	858.5	282.2	1628.0	2153.9	1795.4	2050.8	1974.6	1705.3	1897.4
77.5°	50.4	90.1	576.3	231.8	974.4	1371.5	769.5	385.3	411.0	332.7	411.0
80°	25.8	50.4	411.0	128.8	614.9	872.5	525.9	140.6	153.5	114.8	167.4
82.5°	0.0	25.8	114.8	38.6	103.0	167.4	217.9	64.4	64.4	50.4	64.4
85°	0.0	0.0	0.0	0.0	12.9	12.9	12.9	25.8	12.9	25.8	25.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2460.8	2460.8	2460.8	2460.8	2460.8	2460.8	2460.8	2460.8	2460.8	2460.8	2460.8
2.5°	2474.7	2474.7	2461.9	2447.9	2447.9	2423.2	2423.2	2423.2	2397.5	2423.2	2436.1
5°	2486.5	2486.5	2474.7	2461.9	2447.9	2423.2	2397.5	2384.6	2358.8	2384.6	2410.3
7.5°	2526.2	2526.2	2500.5	2461.9	2423.2	2384.6	2358.8	2333.1	2307.3	2321.3	2333.1
10°	2576.7	2564.9	2538.0	2486.5	2423.2	2358.8	2321.3	2256.9	2256.9	2268.7	2282.6
12.5°	2615.3	2615.3	2576.7	2500.5	2423.2	2358.8	2282.6	2218.2	2204.3	2192.5	2204.3
15°	2718.3	2691.5	2641.1	2550.9	2461.9	2358.8	2256.9	2192.5	2153.9	2141.0	2153.9
17.5°	2820.3	2808.5	2730.1	2615.3	2512.3	2371.7	2244.0	2166.7	2103.4	2076.6	2103.4
20°	3115.4	3076.8	2962.0	2768.8	2576.7	2397.5	2244.0	2115.2	2025.1	2000.4	2025.1
22.5°	3731.4	3678.8	3435.2	3128.3	2705.5	2447.9	2230.0	2076.6	1974.6	1948.9	1948.9
25°	4230.4	4192.9	4038.3	3628.4	3012.4	2550.9	2256.9	2063.7	1936.0	1897.4	1922.0
27.5°	4269.1	4269.1	4257.3	4077.0	3513.6	2730.1	2307.3	2050.8	1884.5	1833.0	1845.9
30°	4167.1	4140.3	4115.6	4102.7	3936.4	3115.4	2371.7	2013.3	1833.0	1756.8	1795.4
32.5°	4204.7	4178.9	4025.5	3858.0	3975.0	3576.9	2474.7	2000.4	1768.6	1692.4	1718.1
35°	4499.8	4448.3	4218.6	3820.5	3692.8	3756.1	2718.3	2000.4	1705.3	1616.2	1640.9
37.5°	4794.9	4781.0	4486.9	3986.8	3602.6	3602.6	2949.1	1961.8	1628.0	1538.9	1538.9
40°	4884.0	4884.0	4654.3	4230.4	3731.4	3217.4	3026.3	1922.0	1551.8	1435.9	1460.6
42.5°	4756.3	4859.3	4743.4	4257.3	3833.4	3090.7	2820.3	1897.4	1474.5	1345.8	1359.7
45°	4794.9	5077.2	4898.0	4243.3	3949.3	2949.1	2447.9	1859.8	1384.4	1269.6	1256.7
47.5°	5808.0	6114.9	5832.7	4666.1	4204.7	3038.1	2089.5	1705.3	1320.0	1179.4	1179.4
50°	7013.2	7102.2	6615.0	5397.0	4448.3	3654.1	1986.4	1602.2	1243.8	1090.3	1077.5
52.5°	6038.7	6064.5	6487.3	5320.8	4486.9	3692.8	1936.0	1538.9	1179.4	1000.2	1000.2
55°	5564.4	5730.7	5385.2	4372.1	3678.8	2730.1	1910.2	1499.2	1116.1	922.9	922.9
57.5°	5858.4	5808.0	5141.6	4564.2	3128.3	2447.9	1845.9	1448.8	1051.7	846.7	819.9
60°	5782.2	5243.5	4333.5	4512.7	3179.8	2282.6	1705.3	1345.8	974.4	743.7	718.0
62.5°	4987.0	4601.8	3678.8	3975.0	2962.0	2423.2	1666.6	1295.3	936.9	679.3	666.4
65°	6308.1	6346.7	3384.8	3256.0	2526.2	2063.7	1538.9	1192.3	833.9	576.3	564.5
67.5°	12255.6	10871.2	3449.2	3281.8	2423.2	2050.8	1423.0	1090.3	769.5	500.1	487.2
70°	13436.1	10154.3	3012.4	2500.5	1871.6	1640.9	1256.7	974.4	654.6	411.0	385.3
72.5°	7371.6	5153.4	1371.5	1000.2	897.2	1166.5	948.7	819.9	525.9	320.9	308.0
75°	1897.4	1589.4	576.3	513.0	397.1	422.8	332.7	358.4	294.0	217.9	205.0
77.5°	448.6	435.7	243.6	308.0	217.9	153.5	90.1	90.1	90.1	90.1	103.0
80°	179.2	217.9	114.8	153.5	128.8	103.0	50.4	50.4	38.6	38.6	50.4
82.5°	77.3	64.4	50.4	64.4	50.4	50.4	25.8	25.8	12.9	25.8	25.8
85°	25.8	38.6	25.8	38.6	25.8	25.8	12.9	0.0	0.0	12.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)