

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: 769004_350MP

Luminaire Tested: **GSM-XX-350-MP-XX-FT-FG-XX-X**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 769004_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GSM-XX-350-MP-XX-FT-FG-XX-X
Description: MEDIUM ARCHITECTURAL AREA LUMINAIRE-HORIZONTAL LAMP-FORWARD THROW DISTRIBUTION
Light Source: 350 WATT PULSE-START CLEAR ED-37 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 14281.1 lumens
Efficiency: 43.3%
Efficacy: 36.0 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

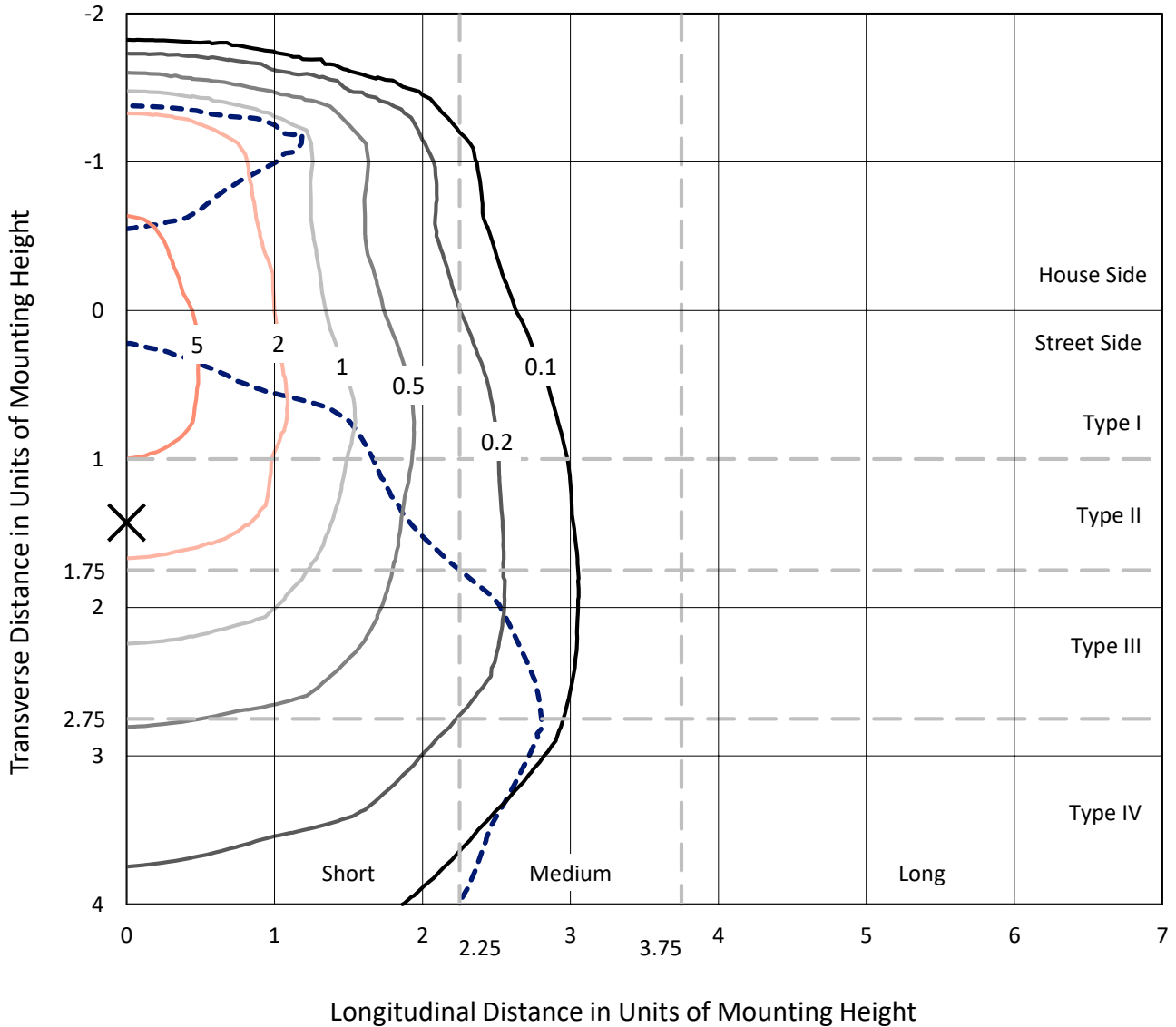
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

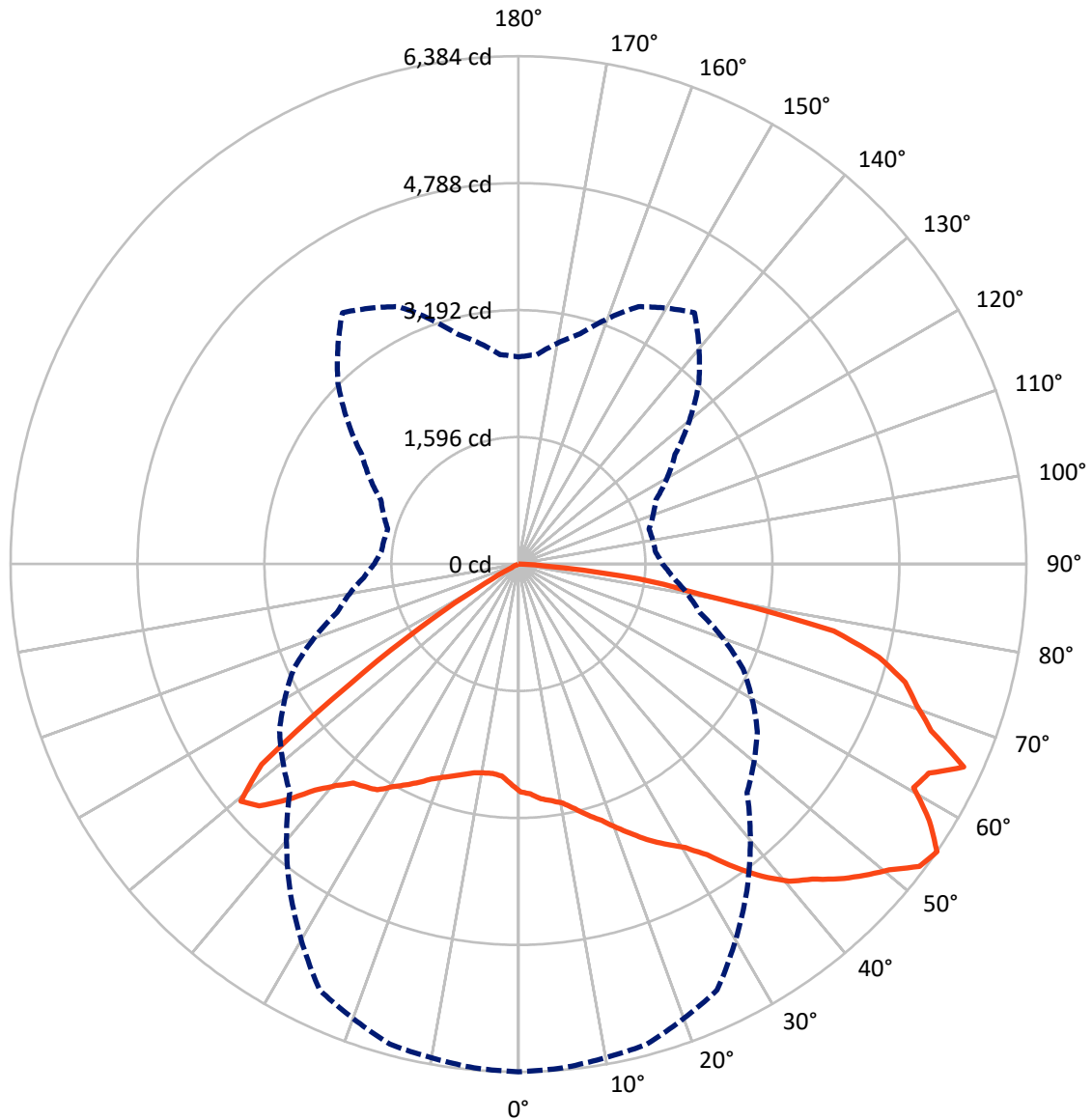
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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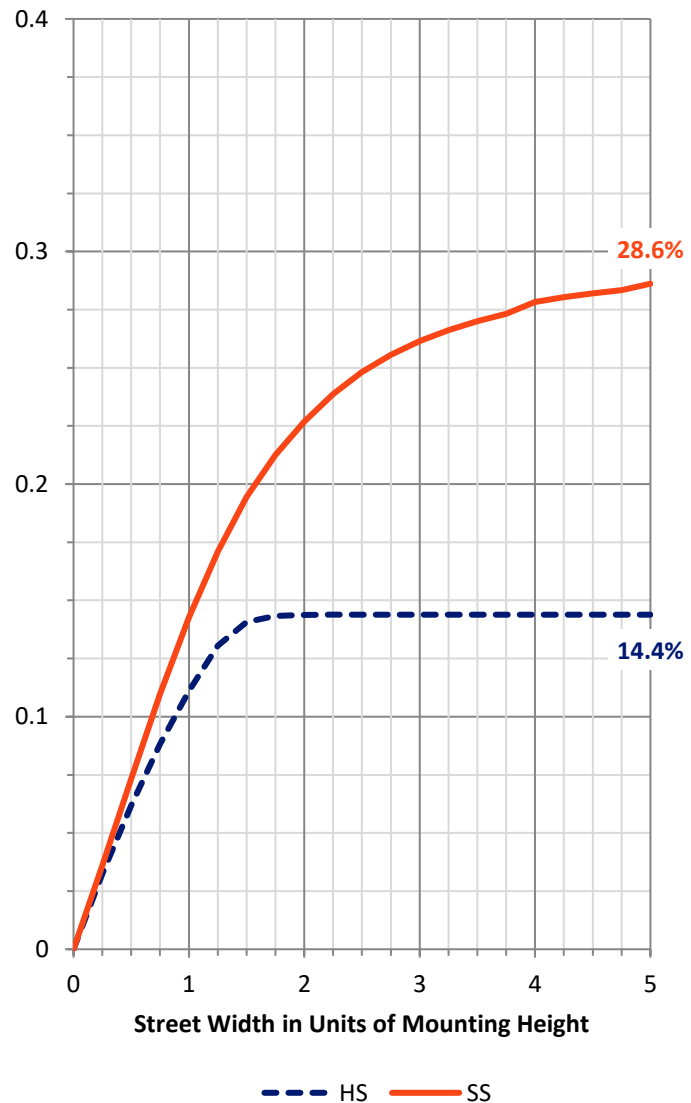
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4771.2	0.0	4771.2
	% Lamp	14.5	0.0	14.5
Street Side	Lumens	9509.9	0.0	9509.9
	% Lamp	28.8	0.0	28.8
Total	Lumens	14281.1	0.0	14281.1
	% Lamp	43.3	0.0	43.3

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	271.0	1.9	0.8
10°-20°	810.5	5.7	2.5
20°-30°	1376.9	9.6	4.2
30°-40°	2017.3	14.1	6.1
40°-50°	2711.2	19.0	8.2
50°-60°	3042.6	21.3	9.2
60°-70°	2388.7	16.7	7.2
70°-80°	1466.2	10.3	4.4
80°-90°	196.6	1.4	0.6
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°	14281.1	100.0	43.3
0°-180°	14281.1	100.0	43.3

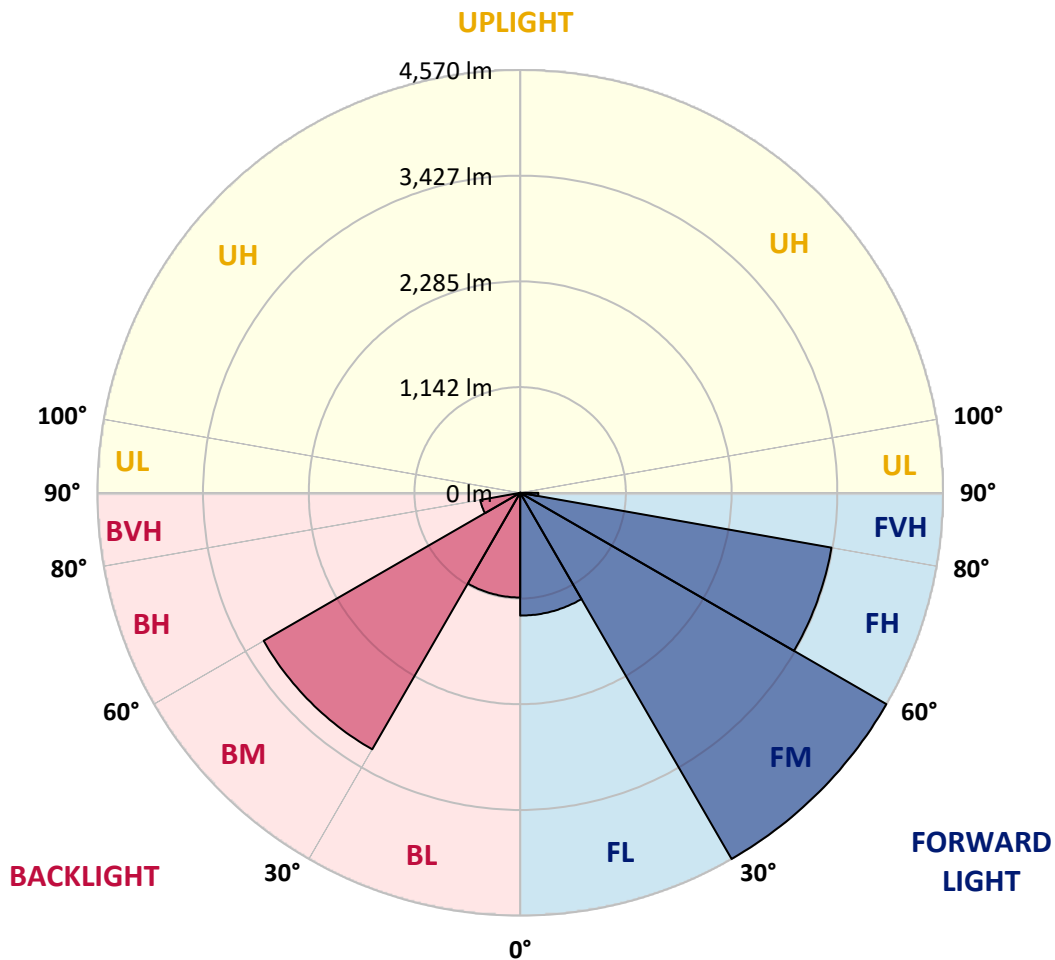


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1327.0	4.0			
FM (30°-60°)	4569.9	13.8			
FH (60°-80°)	3416.8	10.4			G2/5000
FVH (80°-90°)	196.2	0.6			G2/225
BL (0°-30°)	1131.5	3.4	B3/2500		
BM (30°-60°)	3201.2	9.7	B3/5000		
BH (60°-80°)	438.1	1.3	B1/500		G1/500
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	18718.9	56.7			

BUG Rating: B3-U0-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2863.7	2863.7	2863.7	2863.7	2863.7	2863.7	2863.7	2863.7	2863.7	2863.7	2863.7
2.5°	2893.9	2893.9	2899.4	2904.0	2919.6	2919.6	2893.9	2883.8	2873.8	2873.8	2879.2
5°	2964.5	2954.4	2954.4	2959.9	2970.0	2964.5	2929.7	2904.0	2883.8	2863.7	2869.2
7.5°	3004.8	2990.2	2990.2	3000.2	3004.8	2984.7	2939.8	2919.6	2883.8	2853.6	2849.0
10°	3055.2	3060.8	3050.7	3035.1	3014.9	2990.2	2949.8	2919.6	2883.8	2843.5	2828.8
12.5°	3156.1	3146.0	3131.3	3095.6	3055.2	3000.2	2944.3	2899.4	2863.7	2818.8	2793.1
15°	3277.1	3256.9	3242.2	3176.2	3111.2	3035.1	2954.4	2904.0	2863.7	2803.2	2758.2
17.5°	3388.0	3388.0	3333.0	3256.9	3186.3	3085.5	2964.5	2899.4	2859.1	2778.4	2728.0
20°	3539.2	3539.2	3464.1	3353.2	3236.8	3131.3	2990.2	2889.3	2833.4	2738.1	2682.2
22.5°	3690.5	3690.5	3605.2	3488.8	3337.6	3171.7	3014.9	2879.2	2813.2	2707.8	2631.8
25°	3851.8	3841.8	3751.0	3625.4	3448.5	3232.2	3035.1	2873.8	2788.5	2672.1	2596.9
27.5°	3993.9	3993.9	3883.0	3751.0	3569.5	3327.5	3055.2	2883.8	2758.2	2637.2	2556.6
30°	4135.1	4129.6	4018.7	3867.4	3680.4	3413.7	3101.1	2899.4	2738.1	2611.6	2526.3
32.5°	4356.9	4351.4	4205.7	4018.7	3786.8	3514.5	3151.5	2893.9	2707.8	2591.4	2496.1
35°	4679.6	4649.3	4498.1	4270.8	3923.3	3585.1	3186.3	2879.2	2672.1	2566.7	2465.8
37.5°	4982.1	4961.9	4825.3	4603.5	4119.5	3645.6	3242.2	2853.6	2631.8	2516.2	2430.1
40°	5244.2	5218.6	5052.7	4881.2	4381.7	3706.1	3282.6	2853.6	2591.4	2465.8	2389.8
42.5°	5415.7	5385.4	5228.7	5042.6	4573.2	3756.5	3292.7	2873.8	2556.6	2405.3	2309.1
45°	5647.6	5617.3	5460.6	5198.4	4603.5	3786.8	3337.6	2924.2	2541.0	2329.2	2254.1
47.5°	5849.2	5823.6	5677.8	5375.3	4548.5	3786.8	3393.5	2949.8	2470.4	2218.3	2127.6
50°	6040.8	6015.2	5839.2	5511.0	4588.8	3827.1	3509.0	2994.8	2409.9	2107.4	2012.1
52.5°	6313.1	6267.2	6050.9	5662.2	4719.9	3897.7	3630.0	3050.7	2375.1	2026.8	1905.8
55°	6383.7	6358.0	6247.1	5909.8	5006.8	4064.5	3665.8	3115.8	2359.5	1951.6	1810.4
57.5°	6091.2	6061.0	6061.0	6045.4	5470.7	4250.6	3655.7	3171.7	2379.7	1895.7	1734.3
60°	5708.1	5657.7	5627.4	5853.8	5753.0	4361.5	3559.4	3091.0	2334.8	1804.9	1618.8
62.5°	5788.8	5728.2	5511.0	5662.2	5587.1	4367.0	3413.7	2893.9	2218.3	1659.2	1467.6
65°	6151.8	6095.8	5980.3	5984.9	5208.5	4190.1	3201.9	2607.0	2022.2	1467.6	1290.7
67.5°	5597.2	5561.4	5698.0	6171.9	5208.5	4018.7	2970.0	2339.3	1794.8	1270.5	1068.8
70°	5304.8	5269.0	5284.6	5682.4	5072.8	4008.6	2853.6	2077.2	1512.5	1008.3	806.7
72.5°	5082.9	4992.2	4855.6	5410.2	4659.4	4159.8	2768.3	1815.0	1189.8	665.5	514.2
75°	4679.6	4568.7	4361.5	4643.8	3907.8	3539.2	2258.7	1326.4	660.9	378.6	282.3
77.5°	4054.4	3973.8	3811.5	3599.8	2899.4	2496.1	1598.7	812.2	342.8	227.3	171.4
80°	2329.2	2299.0	2183.5	1881.0	1542.8	1381.4	897.4	469.3	197.1	121.0	60.5
82.5°	1522.6	1492.3	1431.8	1290.7	957.9	560.1	292.4	126.5	50.4	20.2	5.5
85°	342.8	312.6	332.8	358.4	161.3	86.2	40.3	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2863.7	2863.7	2863.7	2863.7	2863.7	2863.7	2863.7	2863.7	2863.7	2863.7
2.5°	2879.2	2859.1	2849.0	2843.5	2818.8	2798.6	2793.1	2778.4	2768.3	2762.8
5°	2853.6	2833.4	2808.7	2778.4	2748.2	2722.5	2712.4	2687.7	2672.1	2672.1
7.5°	2823.3	2788.5	2752.8	2717.9	2687.7	2667.5	2667.5	2657.4	2647.3	2651.9
10°	2793.1	2742.7	2697.8	2672.1	2657.4	2647.3	2657.4	2662.0	2662.0	2662.0
12.5°	2752.8	2682.2	2641.8	2637.2	2631.8	2647.3	2662.0	2667.5	2677.6	2682.2
15°	2728.0	2647.3	2611.6	2621.7	2631.8	2651.9	2677.6	2717.9	2738.1	2732.6
17.5°	2672.1	2596.9	2571.2	2591.4	2621.7	2672.1	2717.9	2752.8	2783.0	2783.0
20°	2621.7	2541.0	2526.3	2571.2	2631.8	2677.6	2742.7	2803.2	2843.5	2843.5
22.5°	2571.2	2475.9	2486.0	2551.1	2637.2	2707.8	2793.1	2863.7	2919.6	2914.1
25°	2516.2	2425.5	2450.2	2541.0	2637.2	2742.7	2849.0	2949.8	3010.3	3014.9
27.5°	2465.8	2385.2	2425.5	2516.2	2637.2	2778.4	2929.7	3045.2	3111.2	3115.8
30°	2430.1	2349.4	2389.8	2506.2	2647.3	2849.0	3030.5	3151.5	3216.6	3216.6
32.5°	2395.2	2309.1	2369.6	2490.6	2677.6	2934.2	3146.0	3277.1	3343.1	3347.7
35°	2359.5	2294.4	2344.8	2475.9	2728.0	3065.3	3287.2	3383.4	3393.5	3398.1
37.5°	2344.8	2319.2	2334.8	2480.5	2798.6	3201.9	3393.5	3433.8	3443.9	3448.5
40°	2324.7	2369.6	2329.2	2500.7	2863.7	3256.9	3454.0	3544.8	3605.2	3609.8
42.5°	2278.8	2409.9	2319.2	2516.2	2904.0	3267.0	3529.2	3690.5	3817.0	3821.6
45°	2228.4	2385.2	2294.4	2530.9	2919.6	3312.8	3660.2	3917.8	4135.1	4155.2
47.5°	2097.3	2244.0	2218.3	2510.8	2924.2	3403.6	3841.8	4145.2	4417.4	4457.8
50°	1961.7	2052.4	2133.1	2470.4	2980.1	3595.2	3973.8	4301.0	4563.2	4588.8
52.5°	1830.6	1875.5	2036.8	2440.2	3075.4	3806.9	3978.3	4119.5	4104.8	4094.8
55°	1729.8	1699.5	1905.8	2405.3	3206.5	3857.3	3569.5	2994.8	2641.8	2601.5
57.5°	1639.0	1558.3	1810.4	2385.2	3363.2	3363.2	2218.3	1507.9	1477.7	1482.2
60°	1528.1	1401.6	1694.0	2344.8	3201.9	1991.9	1119.2	736.1	580.2	574.8
62.5°	1361.2	1240.2	1593.2	2254.1	2264.2	806.7	473.9	197.1	121.0	110.9
65°	1165.1	1058.8	1457.5	1901.2	786.5	272.2	66.0	40.3	25.7	30.2
67.5°	943.2	847.0	1114.7	953.3	207.2	20.2	0.0	0.0	0.0	0.0
70°	671.0	509.7	630.7	231.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	368.5	231.9	191.6	30.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	191.6	70.6	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	110.9	20.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	40.3	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	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

(END OF REPORT)