

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: P197531

Luminaire Tested: **TT-C6-LED-E1-5CQ-PM-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115438)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C6-LED-E1-5CQ-PM-LWR-LW-7050
Description: TOPTIER LED AREA/SITE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10927.9 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 108
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

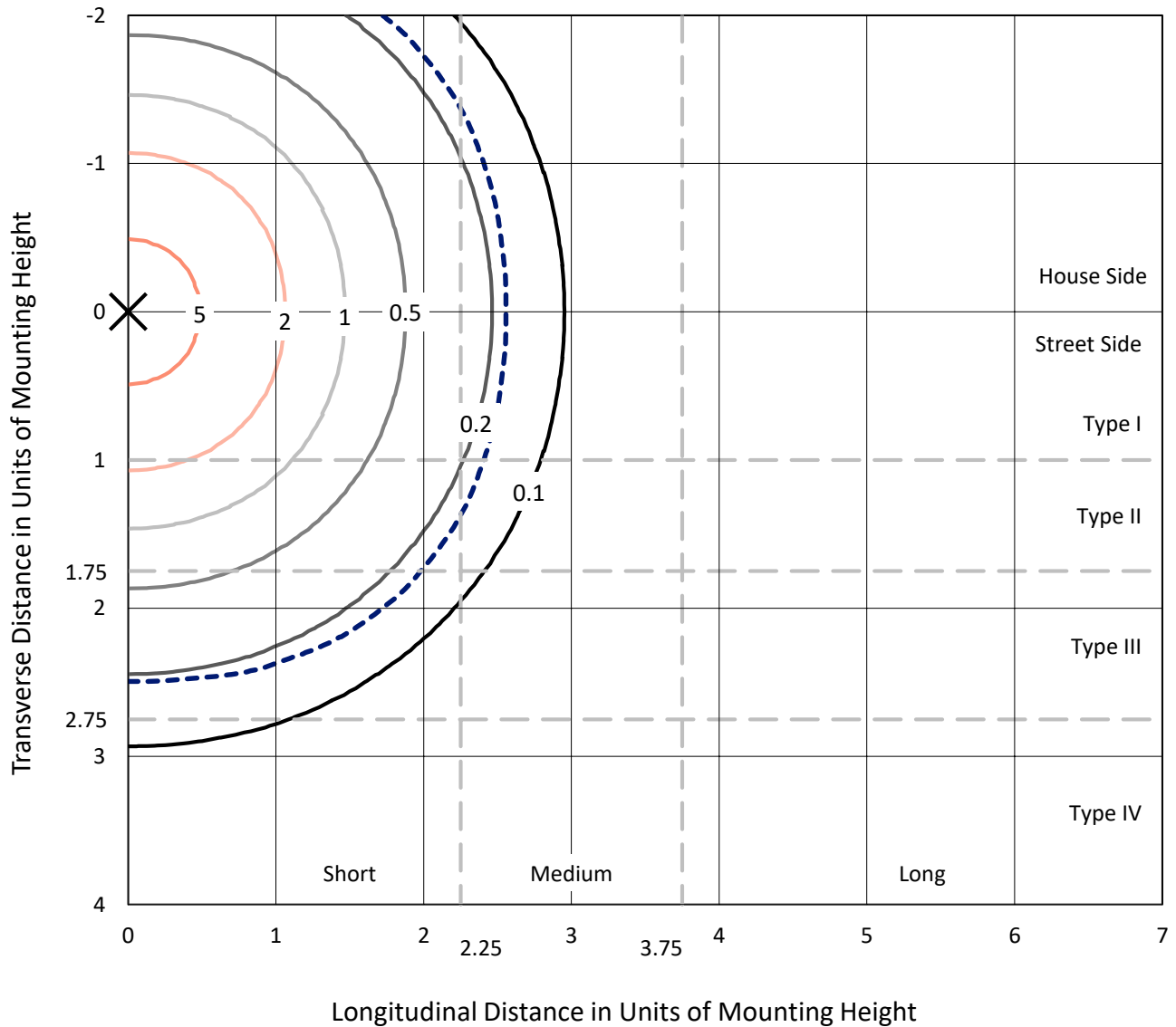


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

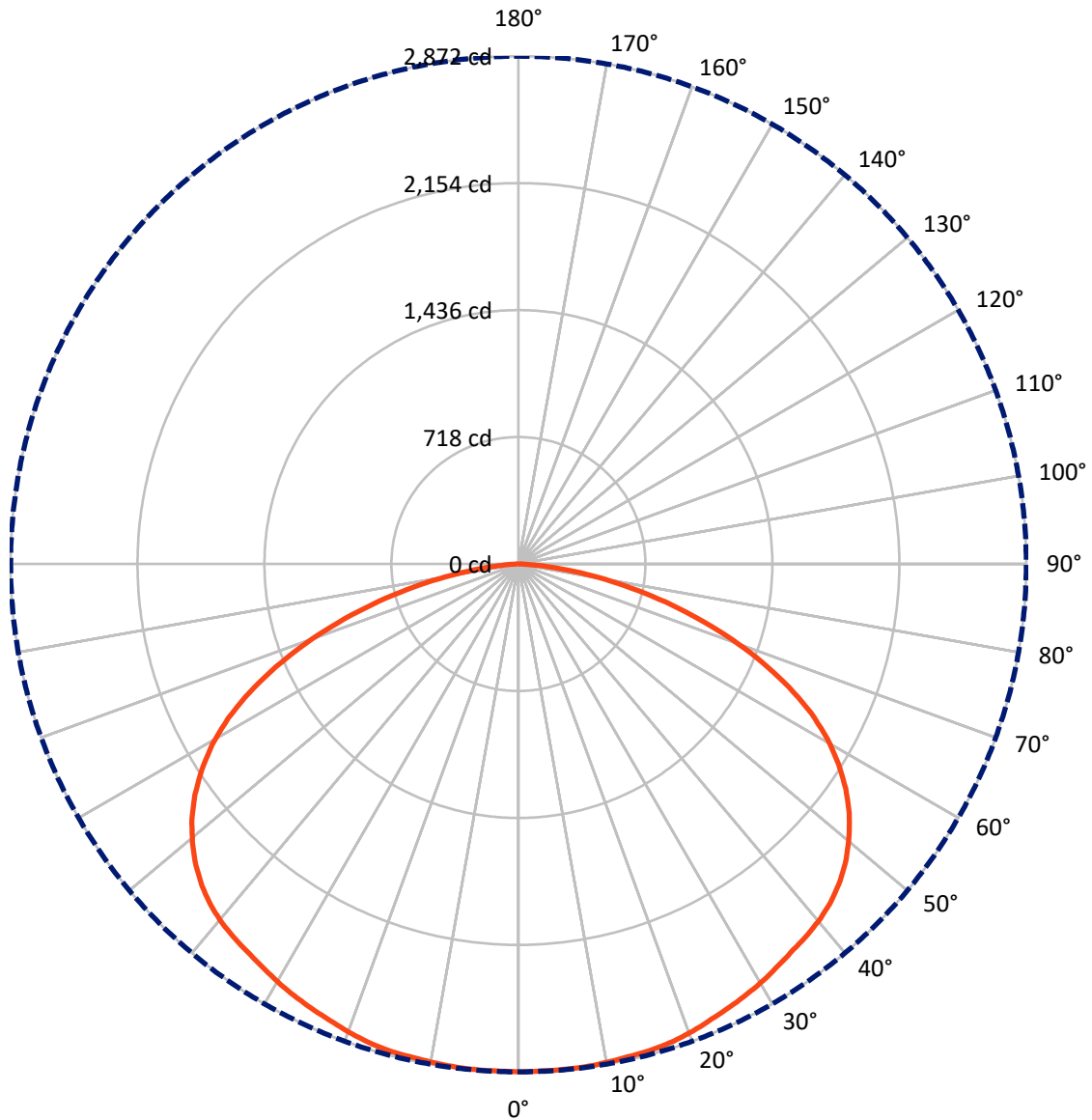


Based on 20 foot mounting height. Maximum calculated value = 7.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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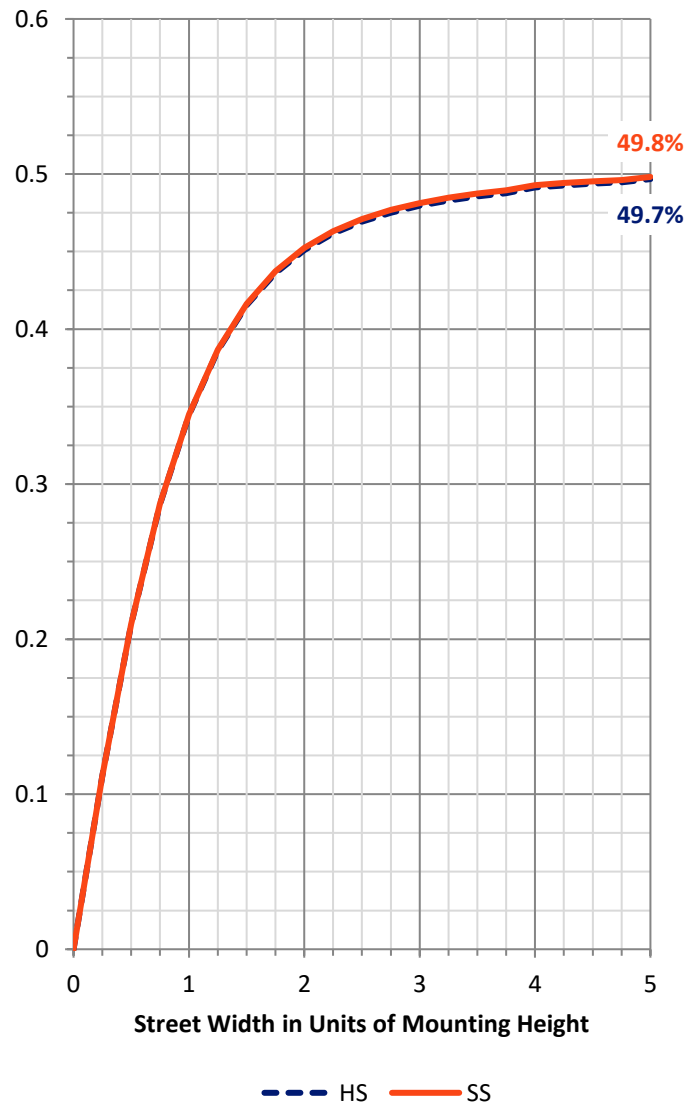
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5464.0	0.0	5464.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5464.0	0.0	5464.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10927.9	0.0	10927.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.6	2.5
10°-20°	805.9	7.4
20°-30°	1283.5	11.7
30°-40°	1682.8	15.4
40°-50°	1984.6	18.2
50°-60°	2055.5	18.8
60°-70°	1719.0	15.7
70°-80°	937.0	8.6
80°-90°	186.0	1.7
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°	10927.9	100.0
0°-180°	10927.9	100.0

Coefficient of Utilization



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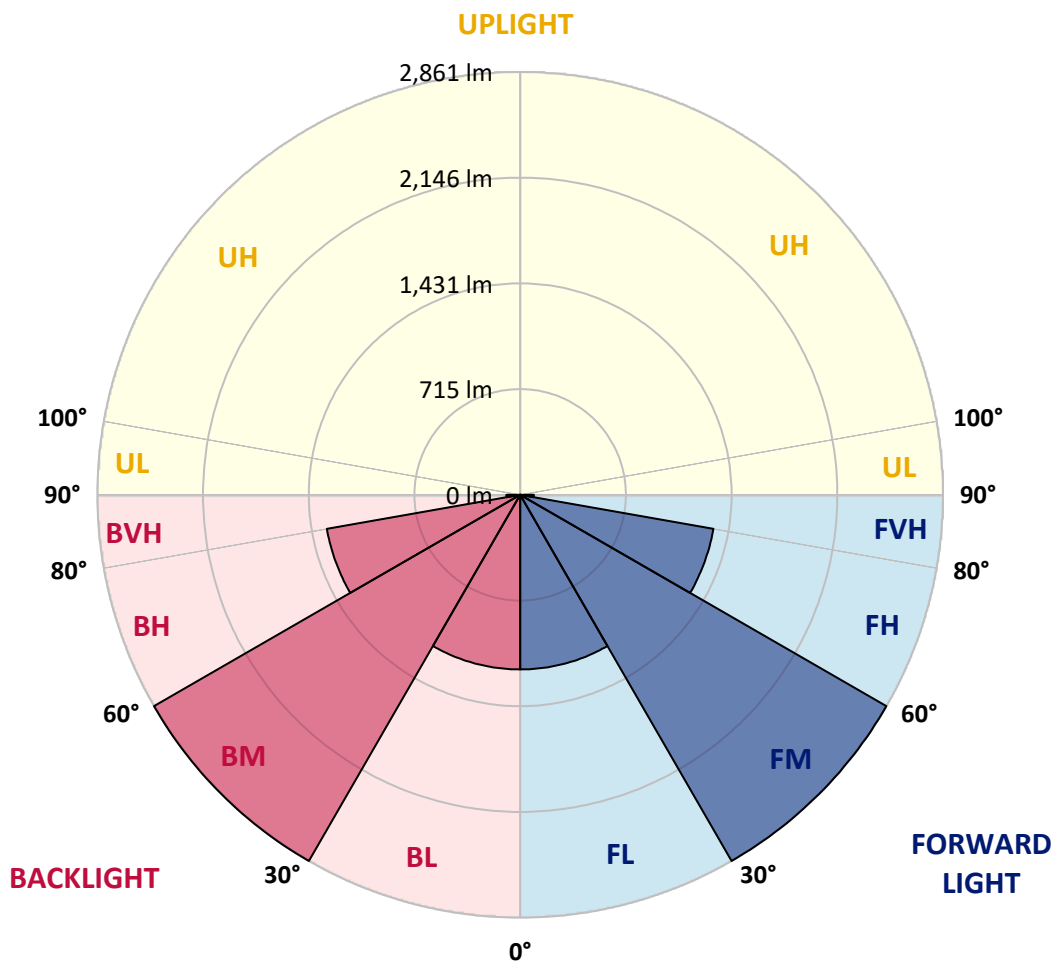
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1181.5	10.8			
FM	(30°-60°)	2861.5	26.2			
FH	(60°-80°)	1328.0	12.2			G1/1800
FVH	(80°-90°)	93.0	0.9			G1/100
BL	(0°-30°)	1181.5	10.8	B3/2500		
BM	(30°-60°)	2861.5	26.2	B3/5000		
BH	(60°-80°)	1328.0	12.2	B3/2500		G1/1800
BVH	(80°-90°)	93.0	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2871.9	2871.9	2871.9	2871.9	2871.9	2871.9	2871.9	2871.9	2871.9	2871.9	2871.9
2.5°	2869.6	2871.9	2871.9	2871.9	2871.9	2871.9	2871.9	2871.9	2869.6	2871.9	2871.9
5°	2869.6	2869.6	2869.6	2869.6	2871.9	2869.6	2869.6	2869.6	2869.6	2869.6	2869.6
7.5°	2867.3	2865.0	2865.0	2865.0	2865.0	2865.0	2867.3	2867.3	2867.3	2867.3	2867.3
10°	2860.4	2860.4	2860.4	2860.4	2860.4	2860.4	2860.4	2860.4	2860.4	2860.4	2860.4
12.5°	2853.5	2853.5	2853.5	2853.5	2855.8	2855.8	2855.8	2855.8	2855.8	2855.8	2853.5
15°	2848.9	2848.9	2848.9	2848.9	2848.9	2848.9	2848.9	2848.9	2848.9	2848.9	2848.9
17.5°	2837.4	2837.4	2837.4	2837.4	2839.7	2839.7	2839.7	2839.7	2839.7	2839.7	2839.7
20°	2819.0	2819.0	2819.0	2819.0	2819.0	2821.3	2823.6	2823.6	2823.6	2823.6	2823.6
22.5°	2796.0	2796.0	2798.3	2798.3	2800.6	2800.6	2802.9	2802.9	2802.9	2802.9	2802.9
25°	2775.3	2775.3	2775.3	2777.6	2777.6	2777.6	2779.9	2782.3	2782.3	2782.3	2779.9
27.5°	2754.6	2754.6	2754.6	2756.9	2756.9	2756.9	2759.2	2759.2	2761.6	2759.2	2759.2
30°	2731.6	2729.4	2729.4	2731.6	2733.9	2733.9	2736.2	2736.2	2736.2	2736.2	2733.9
32.5°	2704.1	2704.1	2706.4	2708.6	2708.6	2710.9	2713.2	2713.2	2713.2	2715.6	2710.9
35°	2678.7	2681.0	2681.0	2683.4	2687.9	2690.2	2692.5	2694.9	2694.9	2694.9	2690.2
37.5°	2658.0	2660.4	2662.7	2667.2	2671.9	2676.4	2681.0	2685.7	2683.4	2683.4	2676.4
40°	2632.7	2635.0	2639.7	2644.2	2653.5	2658.0	2664.9	2669.5	2671.9	2669.5	2662.7
42.5°	2598.3	2600.5	2605.2	2612.0	2623.5	2632.7	2639.7	2646.5	2648.9	2646.5	2639.7
45°	2552.3	2554.6	2559.2	2568.3	2582.2	2591.3	2602.8	2609.8	2614.3	2614.3	2607.5
47.5°	2494.8	2497.1	2504.0	2513.2	2527.0	2538.5	2552.3	2561.5	2566.1	2570.7	2563.8
50°	2423.5	2425.9	2435.0	2446.5	2458.0	2474.1	2490.2	2504.0	2510.9	2513.2	2510.9
52.5°	2343.0	2345.3	2354.5	2366.0	2382.2	2400.5	2418.9	2435.0	2444.2	2448.8	2444.2
55°	2246.4	2251.1	2258.0	2274.1	2292.5	2308.5	2331.5	2350.0	2361.5	2363.7	2361.5
57.5°	2133.8	2140.7	2147.6	2166.0	2184.4	2207.4	2225.8	2244.1	2258.0	2260.3	2260.3
60°	2007.3	2011.9	2018.8	2037.3	2058.0	2074.0	2099.3	2117.7	2129.2	2129.2	2131.5
62.5°	1857.9	1862.5	1874.0	1887.7	1910.7	1926.9	1947.6	1965.9	1977.4	1982.1	1979.8
65°	1683.1	1687.7	1694.6	1713.1	1731.4	1749.8	1770.5	1786.6	1798.1	1800.3	1798.1
67.5°	1490.0	1494.6	1499.1	1522.2	1540.5	1547.5	1572.8	1586.5	1593.5	1595.7	1595.7
70°	1285.3	1287.6	1294.5	1306.0	1326.7	1333.7	1349.7	1361.2	1365.8	1375.0	1368.1
72.5°	1071.5	1076.1	1092.2	1094.5	1110.6	1119.7	1124.4	1124.4	1135.9	1135.9	1138.2
75°	859.9	862.2	869.2	871.4	882.9	882.9	880.7	885.2	894.4	894.4	896.7
77.5°	650.7	650.7	662.2	653.1	657.6	648.4	653.1	648.4	655.3	653.1	655.3
80°	455.3	455.3	462.1	453.0	455.3	446.1	448.4	446.1	446.1	448.4	448.4
82.5°	280.5	282.8	287.4	280.5	280.5	273.7	275.9	278.2	278.2	275.9	273.7
85°	137.9	137.9	142.6	140.3	137.9	133.4	135.6	137.9	137.9	135.6	135.6
87.5°	36.8	36.8	39.1	39.1	36.8	34.5	36.8	39.1	39.1	39.1	36.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2871.9	2871.9	2871.9	2871.9	2871.9	2871.9	2871.9	2871.9
2.5°	2869.6	2869.6	2871.9	2869.6	2871.9	2869.6	2871.9	2871.9
5°	2869.6	2869.6	2869.6	2869.6	2869.6	2869.6	2869.6	2869.6
7.5°	2865.0	2867.3	2865.0	2865.0	2865.0	2867.3	2865.0	2867.3
10°	2860.4	2860.4	2860.4	2860.4	2860.4	2860.4	2860.4	2860.4
12.5°	2853.5	2853.5	2853.5	2853.5	2853.5	2853.5	2853.5	2851.2
15°	2848.9	2846.6	2846.6	2846.6	2844.3	2844.3	2844.3	2844.3
17.5°	2839.7	2837.4	2835.1	2835.1	2835.1	2835.1	2832.8	2832.8
20°	2823.6	2821.3	2819.0	2819.0	2816.7	2816.7	2814.4	2814.4
22.5°	2800.6	2800.6	2798.3	2796.0	2796.0	2793.8	2793.8	2791.4
25°	2779.9	2777.6	2775.3	2773.0	2770.7	2770.7	2768.4	2766.1
27.5°	2756.9	2752.3	2750.1	2747.7	2745.4	2743.1	2740.8	2738.6
30°	2731.6	2727.1	2722.4	2720.1	2715.6	2710.9	2708.6	2706.4
32.5°	2706.4	2701.7	2694.9	2687.9	2683.4	2678.7	2674.2	2671.9
35°	2685.7	2676.4	2669.5	2660.4	2653.5	2646.5	2644.2	2642.0
37.5°	2669.5	2660.4	2648.9	2639.7	2632.7	2623.5	2619.0	2614.3
40°	2653.5	2642.0	2628.2	2616.7	2607.5	2596.0	2591.3	2586.8
42.5°	2630.5	2616.7	2602.8	2589.1	2575.3	2563.8	2556.8	2552.3
45°	2598.3	2584.5	2568.3	2550.0	2536.1	2522.4	2515.5	2510.9
47.5°	2554.6	2540.8	2522.4	2506.3	2490.2	2476.4	2467.2	2462.6
50°	2501.7	2487.9	2469.5	2451.1	2435.0	2418.9	2412.0	2405.2
52.5°	2435.0	2423.5	2402.8	2389.0	2370.7	2354.5	2347.7	2343.0
55°	2352.2	2340.7	2320.0	2306.3	2287.8	2274.1	2264.8	2258.0
57.5°	2251.1	2241.9	2218.9	2205.1	2186.7	2172.9	2166.0	2161.4
60°	2126.9	2117.7	2094.7	2081.0	2064.8	2048.7	2044.1	2039.5
62.5°	1972.9	1968.3	1949.9	1933.7	1917.7	1901.6	1897.0	1894.7
65°	1793.5	1788.9	1772.8	1759.0	1745.3	1731.4	1726.8	1722.2
67.5°	1588.8	1586.5	1572.8	1561.3	1552.0	1538.3	1536.0	1531.3
70°	1370.4	1365.8	1354.3	1345.2	1338.2	1326.7	1324.4	1319.8
72.5°	1142.7	1140.5	1133.6	1122.1	1122.1	1106.0	1103.7	1101.4
75°	892.1	903.6	894.4	889.9	889.9	880.7	880.7	878.4
77.5°	653.1	664.6	671.4	662.2	671.4	662.2	662.2	659.9
80°	446.1	455.3	462.1	455.3	466.8	459.8	459.8	469.1
82.5°	271.3	280.5	285.2	282.8	289.7	287.4	285.2	292.0
85°	133.4	137.9	140.3	140.3	142.6	137.9	142.6	144.9
87.5°	34.5	36.8	39.1	36.8	39.1	39.1	39.1	41.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)