

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: P200178

Luminaire Tested: **GWC-AF-02-LED-E1-T2-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-T2-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13679.9 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

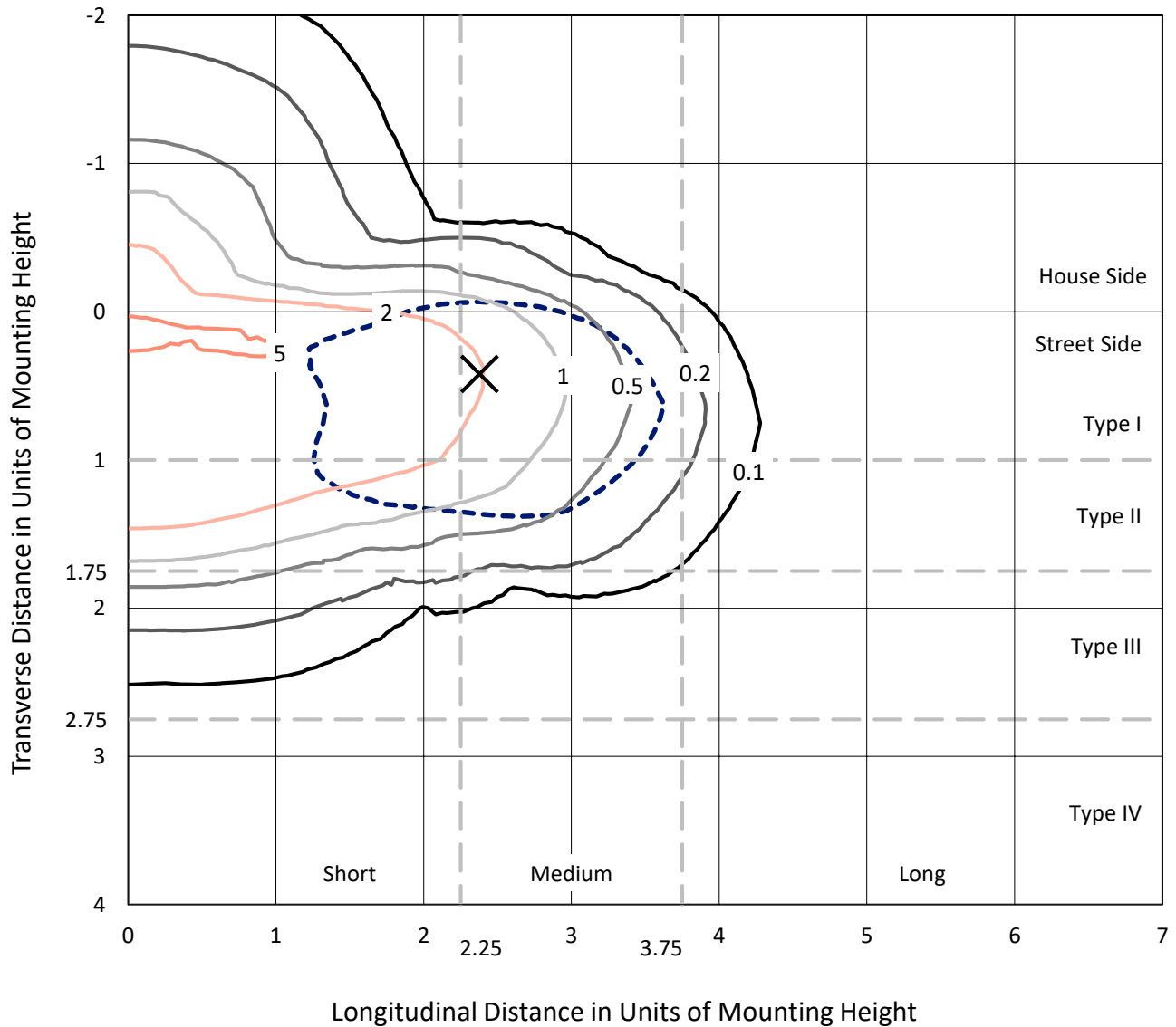
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

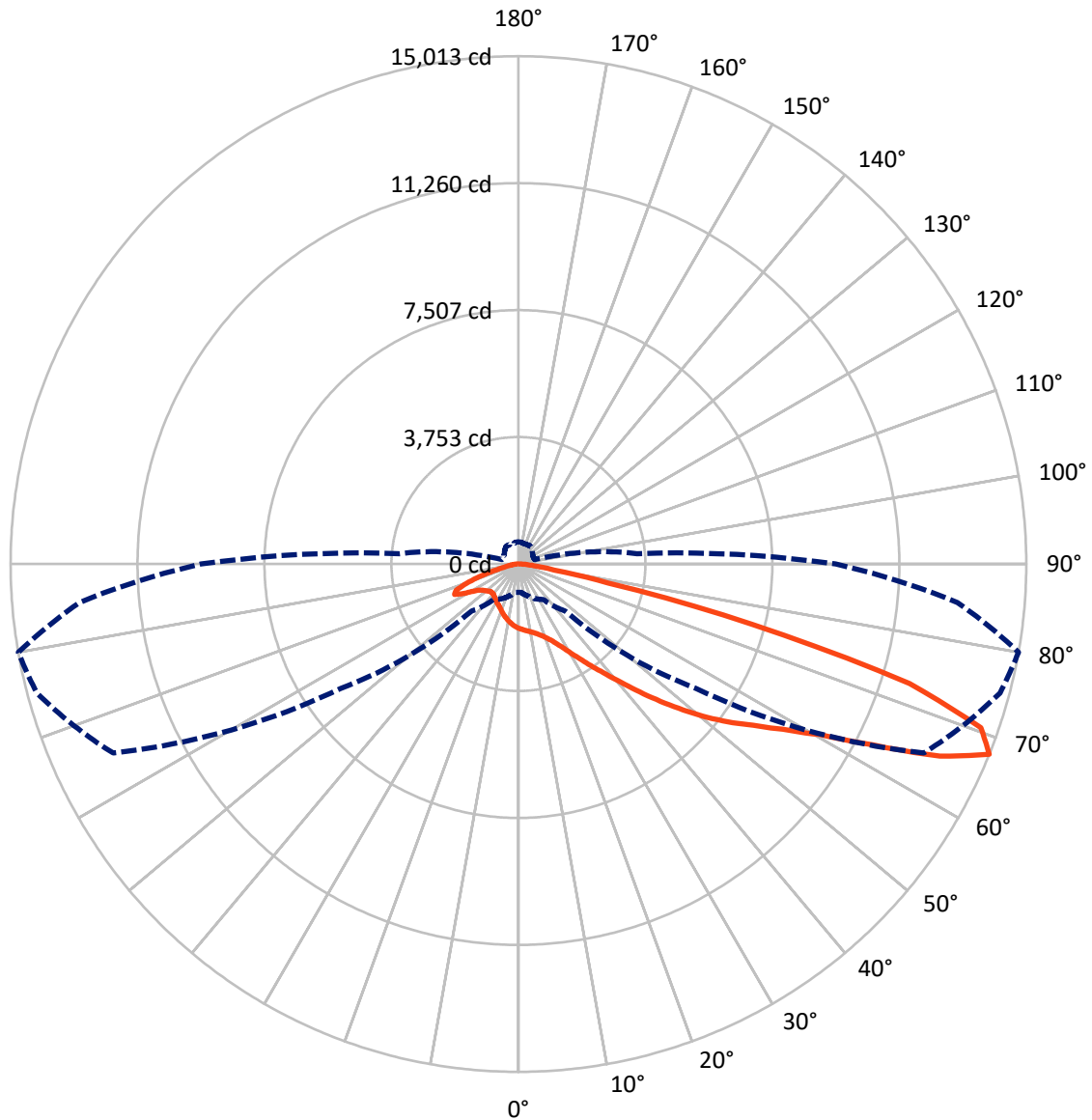
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2519.3	0.0	2519.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	11160.6	0.0	11160.6
	% Fixture	81.6	0.0	81.6
Total	Lumens	13679.9	0.0	13679.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.3	1.3
10°-20°	505.0	3.7
20°-30°	835.9	6.1
30°-40°	1367.4	10.0
40°-50°	2207.8	16.1
50°-60°	3187.4	23.3
60°-70°	3517.5	25.7
70°-80°	1621.3	11.9
80°-90°	262.2	1.9
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°	13679.9	100.0
0°-180°	13679.9	100.0



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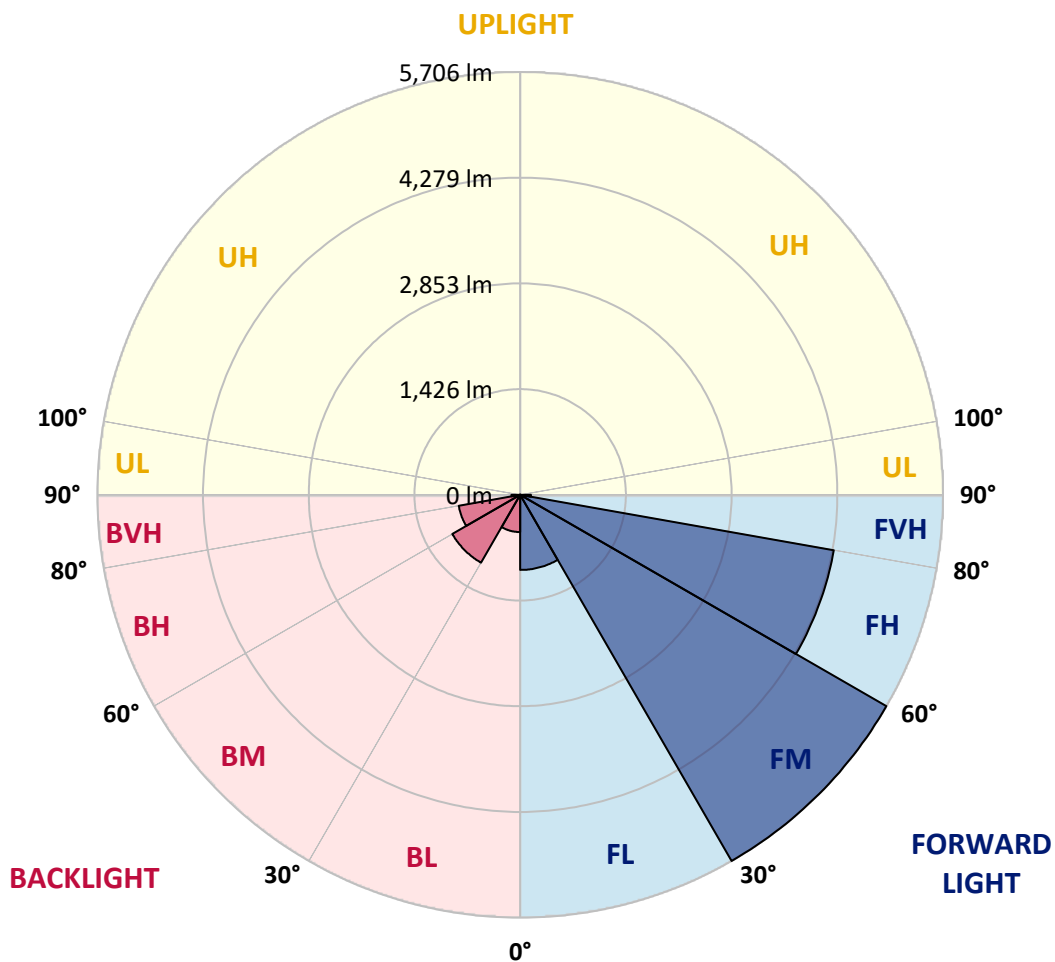
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1013.7	7.4			
FM (30°-60°)	5705.5	41.7			
FH (60°-80°)	4297.2	31.4			G2/5000
FVH (80°-90°)	144.2	1.1			G2/225
BL (0°-30°)	502.6	3.7	B2/1000		
BM (30°-60°)	1057.0	7.7	B2/2500		
BH (60°-80°)	841.6	6.2	B2/1000		G2/1000
BVH (80°-90°)	118.1	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5
2.5°	2079.0	2066.9	2068.9	2065.5	2055.4	2037.9	2019.1	1984.7	1949.0	1930.2	1915.4
5°	2252.7	2249.4	2244.7	2233.9	2208.3	2171.9	2126.8	2066.3	2000.9	1966.5	1933.6
7.5°	2382.8	2380.7	2374.7	2367.9	2343.0	2299.2	2231.3	2145.0	2050.1	2002.9	1951.7
10°	2393.5	2396.9	2401.6	2419.8	2423.2	2399.5	2330.2	2225.8	2101.2	2040.6	1975.3
12.5°	2301.9	2309.3	2327.5	2374.0	2423.2	2452.1	2416.4	2310.6	2161.2	2087.7	2004.9
15°	2180.7	2184.7	2207.0	2271.0	2359.1	2448.7	2482.4	2404.3	2238.6	2148.4	2049.4
17.5°	2128.9	2130.9	2146.4	2188.8	2271.0	2398.9	2519.4	2506.0	2333.6	2223.8	2103.9
20°	2102.6	2107.3	2129.5	2171.3	2223.2	2334.9	2524.8	2615.8	2446.7	2318.1	2172.6
22.5°	2177.4	2175.3	2183.4	2204.3	2248.0	2315.3	2520.9	2728.9	2590.8	2439.3	2262.2
25°	2351.8	2359.1	2345.0	2321.5	2335.6	2382.8	2542.3	2851.5	2771.4	2594.9	2379.4
27.5°	2600.2	2592.9	2572.0	2516.8	2487.8	2508.0	2613.7	2983.4	2995.6	2799.6	2534.3
30°	2848.1	2842.1	2821.8	2754.5	2695.3	2678.4	2752.5	3135.0	3263.0	3045.4	2724.2
32.5°	3105.4	3098.6	3079.8	3012.5	2941.1	2902.0	2949.8	3310.2	3578.2	3339.1	2947.8
35°	3422.6	3409.8	3370.0	3276.4	3206.4	3176.1	3198.4	3530.3	3941.8	3686.6	3219.2
37.5°	3721.0	3740.4	3700.0	3570.7	3479.9	3469.0	3494.0	3799.0	4333.8	4075.2	3531.0
40°	4020.6	4024.0	3987.7	3881.9	3788.3	3770.8	3833.4	4125.0	4796.5	4539.9	3910.2
42.5°	4330.5	4337.2	4275.8	4178.2	4109.5	4112.9	4184.3	4506.9	5327.1	5087.4	4346.6
45°	4697.5	4707.6	4640.2	4512.2	4449.6	4575.6	4545.9	4935.2	5909.1	5709.7	4847.7
47.5°	5081.3	5096.9	5045.7	4925.8	4847.7	5020.7	4907.6	5410.0	6535.3	6377.1	5397.9
50°	5290.8	5313.0	5362.8	5354.1	5337.2	5308.3	5311.0	5919.1	7181.2	7072.2	5963.6
52.5°	5178.3	5177.7	5359.4	5580.4	5816.1	5833.6	5802.7	6455.9	7784.7	7751.7	6496.4
55°	4663.8	4698.8	4974.3	5401.9	6045.7	6447.9	6539.4	7070.7	8377.4	8415.7	7037.1
57.5°	3807.1	3836.1	4207.8	4803.9	5736.0	6812.9	7587.3	7964.5	9040.0	9219.1	7757.0
60°	2582.1	2617.1	3011.1	3727.0	4902.2	6609.5	8584.7	9559.3	9833.3	10240.9	8767.3
62.5°	1517.3	1549.0	1870.3	2351.0	3451.5	5664.6	9022.5	11828.2	11093.4	11782.3	10308.2
65°	1044.5	1066.1	1222.3	1463.4	1983.4	3815.2	8479.6	13394.7	13032.4	13692.4	12094.9
67.5°	840.5	837.8	961.7	1126.1	1276.9	1967.2	6412.2	13217.5	14737.6	15013.0	13022.3
70°	692.3	689.7	773.9	909.8	1020.3	1107.9	3492.7	11154.1	14390.1	14501.9	12168.3
72.5°	579.2	581.9	635.8	736.7	837.1	834.4	1534.8	7846.6	11320.4	12093.5	9700.0
75°	489.0	490.3	526.0	597.4	679.5	672.1	832.4	4251.0	6580.5	7118.6	5377.0
77.5°	416.2	417.6	440.5	480.2	538.8	536.1	607.4	1836.6	2745.1	2711.4	1839.3
80°	371.1	371.1	381.9	389.2	421.6	409.5	450.5	882.3	1160.4	1071.5	734.1
82.5°	290.9	292.3	358.2	355.6	332.0	316.5	316.5	520.0	614.9	568.5	429.6
85°	163.7	163.0	231.0	278.9	292.3	222.9	220.9	290.9	334.7	295.0	208.1
87.5°	70.1	71.4	107.1	123.9	165.7	138.7	136.7	150.2	170.4	147.5	96.3
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°	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5
2.5°	1901.3	1883.7	1845.3	1797.5	1754.4	1726.1	1700.6	1663.5	1665.5	1639.9	1621.1
5°	1899.8	1863.5	1774.6	1668.8	1567.2	1493.7	1438.6	1388.7	1376.6	1353.1	1338.8
7.5°	1901.3	1841.9	1692.5	1523.4	1397.5	1304.5	1257.4	1231.1	1225.1	1217.0	1217.6
10°	1906.0	1822.4	1602.1	1387.3	1255.4	1194.1	1182.6	1190.7	1200.1	1202.8	1203.5
12.5°	1916.7	1804.9	1503.2	1266.1	1166.5	1147.5	1167.1	1194.7	1212.9	1221.7	1221.0
15°	1940.9	1791.4	1408.2	1171.2	1117.3	1127.4	1163.8	1202.8	1229.1	1241.2	1241.9
17.5°	1967.2	1772.0	1310.6	1098.4	1081.0	1106.5	1151.6	1197.5	1229.8	1243.2	1246.0
20°	2001.6	1747.7	1208.2	1043.9	1046.6	1075.5	1118.0	1163.8	1199.4	1210.9	1216.3
22.5°	2046.7	1721.4	1118.6	999.4	1007.5	1029.7	1062.7	1102.4	1133.4	1138.9	1143.6
25°	2107.3	1693.1	1047.3	959.0	962.4	975.2	997.4	1021.0	1042.5	1036.5	1041.2
27.5°	2188.8	1668.8	994.0	922.0	916.0	918.6	930.1	937.4	948.9	932.1	934.1
30°	2284.5	1642.6	953.0	889.7	872.8	868.1	870.8	874.8	883.6	860.7	857.3
32.5°	2395.5	1610.9	914.6	861.3	837.8	828.4	829.7	840.5	874.2	860.0	852.6
35°	2524.8	1575.2	874.2	830.4	814.3	800.8	799.4	833.1	933.4	924.6	917.9
37.5°	2676.3	1539.5	833.8	795.3	796.7	781.9	777.2	815.6	944.9	910.5	905.8
40°	2869.0	1520.7	799.4	758.3	775.2	773.1	763.7	783.3	869.4	806.8	798.7
42.5°	3107.4	1523.4	773.9	718.6	749.6	771.1	756.3	757.0	788.0	740.8	733.5
45°	3401.7	1555.1	755.7	686.9	720.6	769.1	753.6	742.9	745.5	720.6	716.6
47.5°	3745.2	1620.4	742.9	660.7	693.0	761.7	752.9	738.8	732.7	719.2	715.9
50°	4127.0	1715.3	733.5	635.8	668.1	749.6	753.6	734.8	728.0	722.6	720.6
52.5°	4502.2	1823.7	719.2	614.2	648.6	734.8	755.7	730.7	723.3	719.2	717.3
55°	4920.4	1959.2	697.8	596.1	632.4	715.9	755.7	724.7	716.6	717.3	716.6
57.5°	5485.5	2178.0	672.1	580.5	612.8	693.0	742.9	717.9	707.8	708.5	709.2
60°	6368.4	2563.9	641.2	565.1	588.6	666.0	725.4	703.1	693.0	695.7	696.3
62.5°	7666.8	3130.3	600.8	542.2	563.0	637.1	701.1	684.3	674.1	680.9	680.9
65°	9016.5	3630.0	550.9	513.2	536.1	605.5	670.7	660.7	650.6	666.0	665.4
67.5°	9379.4	3518.2	501.0	481.5	509.1	570.4	634.4	629.0	623.6	650.6	649.3
70°	8332.2	2824.6	455.3	449.2	479.6	532.8	595.4	595.4	592.0	612.2	607.4
72.5°	6348.1	2002.9	411.5	414.9	445.8	491.6	552.9	557.6	552.3	562.3	558.3
75°	3398.3	1146.2	367.8	377.2	404.1	449.9	505.7	510.5	507.1	506.5	508.5
77.5°	1129.4	560.4	321.9	336.8	360.3	406.8	456.6	464.0	455.9	454.6	453.9
80°	503.1	352.2	271.4	290.9	311.8	357.6	404.8	410.8	402.0	414.2	398.7
82.5°	323.3	231.7	217.6	239.1	259.3	308.4	352.9	354.2	346.2	402.0	342.8
85°	156.9	143.4	163.7	183.2	200.7	242.4	292.3	293.0	272.7	248.5	239.8
87.5°	78.2	83.5	109.1	126.6	135.3	166.3	212.8	208.8	200.0	181.9	167.7
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)