

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: P191380

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191380
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: GLEON-AF-02-LED-E1-T2-1200
Description: GALLEON AREA AND ROADWAY 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: 13411.9 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' 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

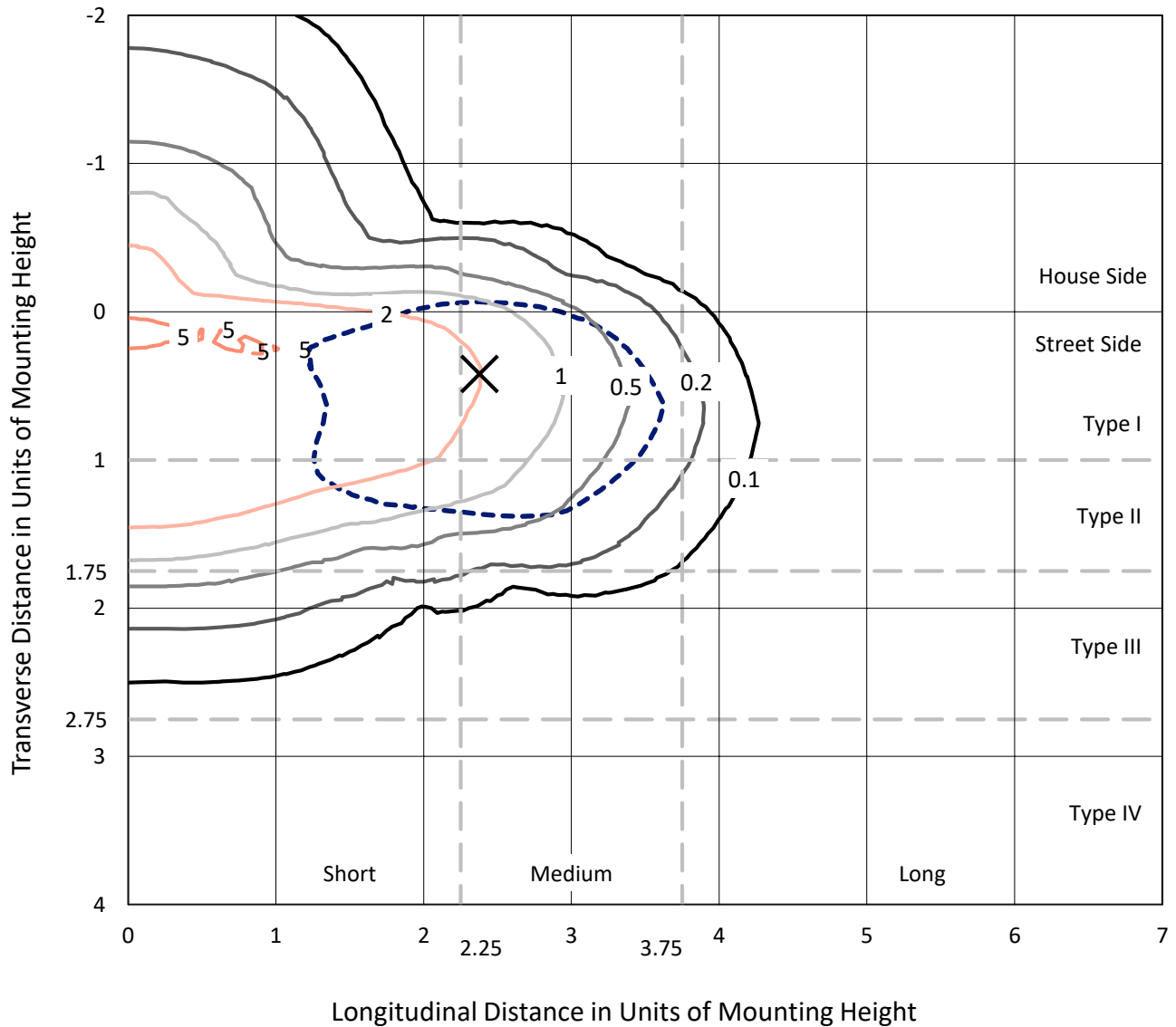


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

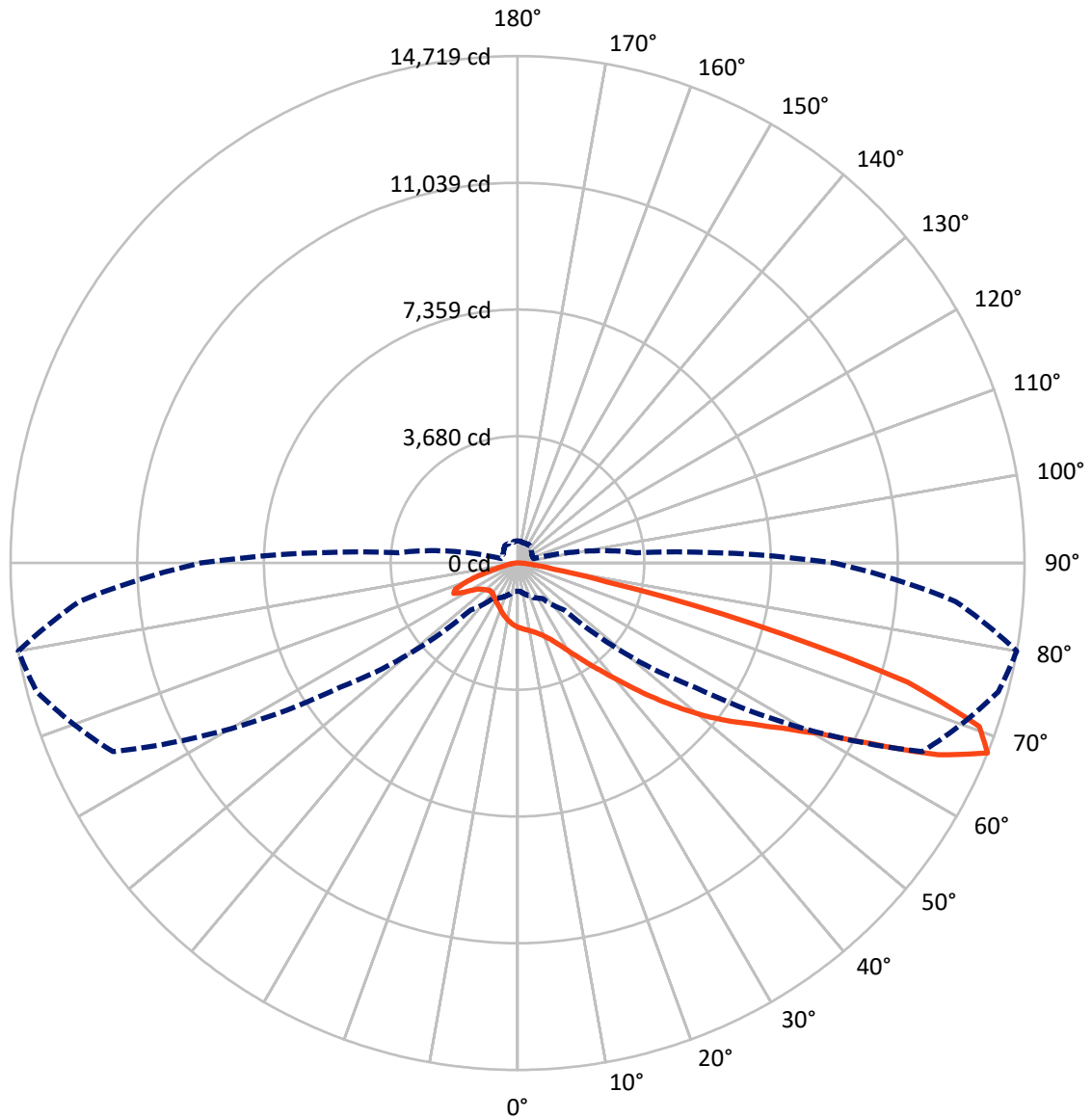


Based on 20 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Medium - Full Cutoff

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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	2470.0	0.0	2470.0
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	10941.9	0.0	10941.9
	% Fixture	81.6	0.0	81.6
Total	Lumens	13411.9	0.0	13411.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	1.3
10°-20°	495.1	3.7
20°-30°	819.6	6.1
30°-40°	1340.6	10.0
40°-50°	2164.5	16.1
50°-60°	3124.9	23.3
60°-70°	3448.6	25.7
70°-80°	1589.6	11.9
80°-90°	257.1	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°	13411.9	100.0
0°-180°	13411.9	100.0



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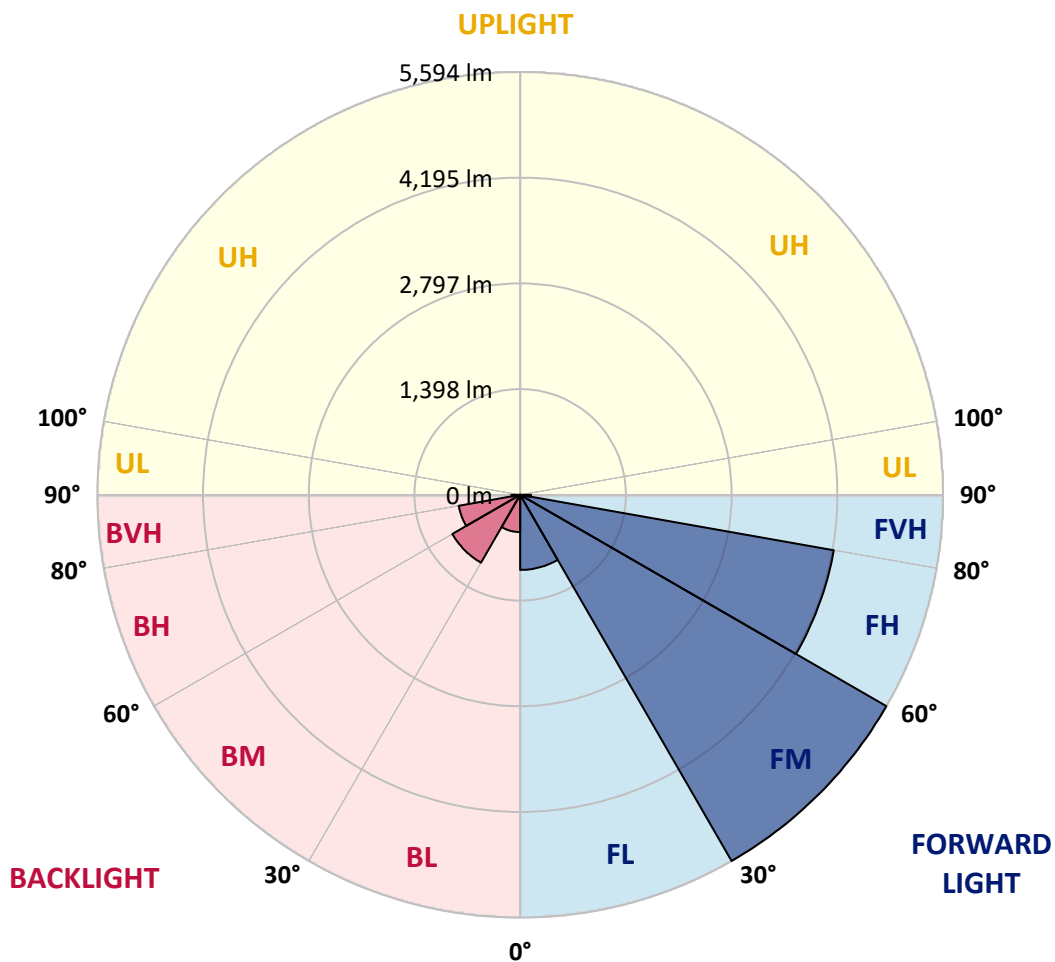
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	993.8	7.4			
FM (30°-60°)	5593.8	41.7			
FH (60°-80°)	4213.0	31.4			G2/5000
FVH (80°-90°)	141.4	1.1			G2/225
BL (0°-30°)	492.8	3.7	B1/500		
BM (30°-60°)	1036.3	7.7	B2/2500		
BH (60°-80°)	825.1	6.2	B2/1000		G2/1000
BVH (80°-90°)	115.7	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°	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3
2.5°	2038.2	2026.4	2028.4	2025.0	2015.2	1998.0	1979.5	1945.9	1910.9	1892.4	1877.8
5°	2208.7	2205.3	2200.7	2190.1	2165.1	2129.4	2085.2	2025.7	1961.7	1928.1	1895.6
7.5°	2336.1	2334.1	2328.1	2321.6	2297.1	2254.2	2187.5	2103.0	2009.9	1963.7	1913.5
10°	2346.6	2349.9	2354.5	2372.4	2375.7	2352.6	2284.6	2182.3	2060.0	2000.7	1936.5
12.5°	2256.8	2264.1	2281.9	2327.5	2375.7	2404.0	2369.1	2265.4	2118.8	2046.8	1965.6
15°	2138.0	2142.0	2163.7	2226.5	2313.0	2400.8	2433.8	2357.2	2194.7	2106.3	2009.2
17.5°	2087.1	2089.1	2104.3	2145.9	2226.5	2351.9	2470.1	2456.9	2287.8	2180.2	2062.7
20°	2061.3	2066.1	2087.8	2128.8	2179.6	2289.2	2475.3	2564.5	2398.8	2272.7	2130.1
22.5°	2134.7	2132.6	2140.6	2161.1	2204.0	2270.0	2471.4	2675.4	2540.1	2391.6	2217.9
25°	2305.7	2313.0	2299.1	2276.0	2289.9	2336.1	2492.5	2795.6	2717.1	2544.1	2332.7
27.5°	2549.3	2542.0	2521.6	2467.5	2439.0	2458.9	2562.5	2925.0	2936.9	2744.8	2484.6
30°	2792.3	2786.4	2766.6	2700.5	2642.4	2625.9	2698.5	3073.6	3199.1	2985.8	2670.8
32.5°	3044.5	3038.0	3019.4	2953.5	2883.4	2845.1	2892.0	3245.3	3508.0	3273.6	2890.0
35°	3355.5	3343.0	3304.0	3212.3	3143.6	3113.9	3135.7	3461.2	3864.6	3614.4	3156.1
37.5°	3648.0	3667.2	3627.6	3500.7	3411.6	3401.1	3425.6	3724.7	4248.9	3995.3	3461.9
40°	3941.8	3945.1	3909.5	3805.9	3714.0	3696.9	3758.3	4044.2	4702.5	4451.0	3833.6
42.5°	4245.6	4252.2	4192.2	4096.4	4029.0	4032.3	4102.3	4418.5	5222.8	4987.7	4261.4
45°	4605.4	4615.3	4549.3	4423.9	4362.5	4485.9	4456.9	4838.6	5793.3	5597.8	4752.6
47.5°	4981.8	4997.0	4946.8	4829.2	4752.6	4922.3	4811.4	5304.0	6407.4	6252.2	5292.1
50°	5187.2	5209.0	5257.8	5249.2	5232.7	5204.3	5206.9	5803.2	7040.6	6933.6	5846.8
52.5°	5076.9	5076.2	5254.5	5471.0	5702.1	5719.3	5688.9	6329.4	7632.1	7599.8	6369.0
55°	4572.4	4606.8	4876.8	5296.1	5927.3	6321.5	6411.3	6932.2	8213.2	8250.8	6899.3
57.5°	3732.5	3761.0	4125.5	4709.8	5623.6	6679.4	7438.7	7808.5	8862.9	9038.6	7605.1
60°	2531.5	2565.9	2952.1	3654.0	4806.1	6480.0	8416.5	9372.0	9640.7	10040.2	8595.4
62.5°	1487.6	1518.7	1833.6	2305.0	3383.9	5553.6	8845.8	11596.5	10876.1	11551.6	10106.2
65°	1024.1	1045.3	1198.4	1434.8	1944.5	3740.5	8313.5	13132.2	12777.1	13424.1	11857.9
67.5°	824.0	821.4	942.9	1104.0	1251.9	1928.7	6286.5	12958.6	14448.9	14718.9	12767.1
70°	678.7	676.2	758.6	892.0	1000.3	1086.2	3424.2	10935.5	14108.1	14217.8	11929.9
72.5°	567.8	570.5	623.3	722.3	820.7	818.1	1504.8	7692.9	11098.6	11856.6	9510.0
75°	479.4	480.7	515.7	585.6	666.2	659.0	816.1	4167.7	6451.5	6979.2	5271.7
77.5°	408.1	409.4	431.8	470.8	528.3	525.6	595.6	1800.6	2691.3	2658.2	1803.3
80°	363.9	363.9	374.4	381.7	413.4	401.4	441.7	865.0	1137.6	1050.5	719.7
82.5°	285.2	286.5	351.3	348.6	325.5	310.4	310.4	509.7	602.8	557.3	421.3
85°	160.4	159.8	226.5	273.3	286.5	218.5	216.6	285.2	328.2	289.2	204.0
87.5°	68.6	70.0	105.0	121.5	162.4	136.1	134.0	147.2	167.0	144.6	94.4
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°	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3	1863.3
2.5°	1863.9	1846.8	1809.2	1762.2	1720.0	1692.3	1667.2	1630.9	1632.8	1607.8	1589.3
5°	1862.7	1827.0	1739.8	1636.2	1536.5	1464.5	1410.3	1361.4	1349.6	1326.5	1312.7
7.5°	1863.9	1805.8	1659.3	1493.5	1370.0	1279.0	1232.8	1207.0	1201.0	1193.2	1193.8
10°	1868.6	1786.7	1570.8	1360.2	1230.7	1170.7	1159.4	1167.4	1176.6	1179.3	1179.9
12.5°	1879.2	1769.5	1473.8	1241.4	1143.6	1125.1	1144.3	1171.4	1189.2	1197.8	1197.1
15°	1902.9	1756.3	1380.7	1148.3	1095.4	1105.3	1141.0	1179.3	1205.0	1216.9	1217.5
17.5°	1928.7	1737.2	1284.9	1077.0	1059.8	1084.8	1129.0	1173.9	1205.6	1218.8	1221.5
20°	1962.3	1713.4	1184.6	1023.5	1026.1	1054.5	1096.1	1141.0	1176.0	1187.1	1192.5
22.5°	2006.6	1687.7	1096.7	979.9	987.8	1009.6	1041.9	1080.8	1111.2	1116.6	1121.2
25°	2066.1	1659.9	1026.7	940.2	943.6	956.0	977.8	1001.0	1022.1	1016.2	1020.8
27.5°	2145.9	1636.2	974.6	903.9	897.9	900.6	911.9	919.1	930.4	913.8	915.8
30°	2239.6	1610.4	934.3	872.3	855.7	851.1	853.8	857.7	866.2	843.8	840.6
32.5°	2348.6	1579.3	896.6	844.4	821.4	812.1	813.5	824.0	857.0	843.2	836.0
35°	2475.3	1544.3	857.0	814.2	798.3	785.1	783.8	816.7	915.1	906.5	900.0
37.5°	2624.0	1509.4	817.4	779.8	781.1	766.6	762.0	799.6	926.4	892.7	888.0
40°	2812.8	1491.0	783.8	743.5	760.0	758.0	748.8	767.9	852.4	791.0	783.1
42.5°	3046.6	1493.5	758.6	704.5	734.9	756.1	741.5	742.2	772.5	726.3	719.0
45°	3335.0	1524.6	740.8	673.5	706.4	754.0	738.9	728.2	730.9	706.4	702.6
47.5°	3671.8	1588.6	728.2	647.7	679.4	746.8	738.2	724.4	718.4	705.2	701.8
50°	4046.2	1681.7	719.0	623.3	655.0	734.9	738.9	720.4	713.7	708.5	706.4
52.5°	4413.9	1788.0	705.2	602.2	635.9	720.4	740.8	716.4	709.1	705.2	703.2
55°	4824.0	1920.8	684.0	584.3	620.0	701.8	740.8	710.4	702.6	703.2	702.6
57.5°	5378.0	2135.3	659.0	569.2	600.9	679.4	728.2	703.9	694.0	694.6	695.3
60°	6243.6	2513.7	628.6	553.9	577.0	653.1	711.2	689.4	679.4	682.1	682.7
62.5°	7516.6	3069.0	589.0	531.5	552.0	624.6	687.3	670.9	660.9	667.6	667.6
65°	8839.8	3558.9	540.1	503.1	525.6	593.6	657.7	647.7	637.8	653.1	652.3
67.5°	9195.7	3449.3	491.2	472.1	499.2	559.2	622.0	616.7	611.4	637.8	636.5
70°	8169.0	2769.2	446.3	440.4	470.1	522.3	583.7	583.7	580.4	600.2	595.6
72.5°	6223.7	1963.7	403.5	406.7	437.1	482.0	542.1	546.7	541.4	551.4	547.4
75°	3331.8	1123.8	360.5	369.8	396.2	441.1	495.8	500.5	497.2	496.5	498.5
77.5°	1107.2	549.3	315.6	330.1	353.2	398.8	447.6	454.9	447.0	445.7	445.0
80°	493.3	345.3	266.1	285.2	305.7	350.6	396.8	402.7	394.1	406.1	390.9
82.5°	316.9	227.1	213.3	234.4	254.2	302.4	346.0	347.3	339.4	394.1	336.0
85°	153.9	140.7	160.4	179.6	196.7	237.7	286.5	287.2	267.4	243.7	235.1
87.5°	76.6	81.8	107.0	124.1	132.7	163.1	208.7	204.7	196.1	178.3	164.4
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)