

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: P191370

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191370
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12225.3 lumens
Efficiency: N/A
Efficacy: 108.2 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): 113
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

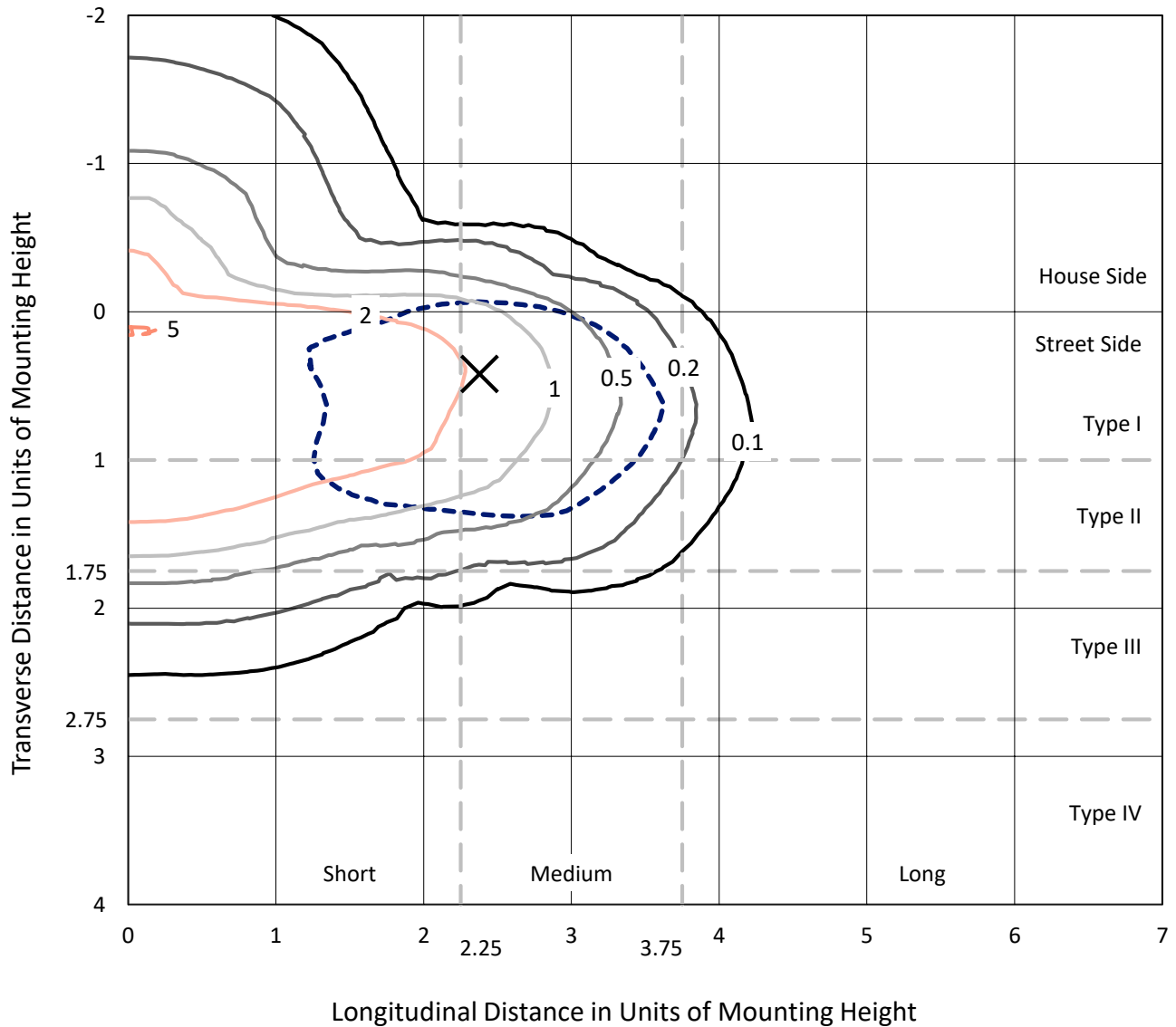


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

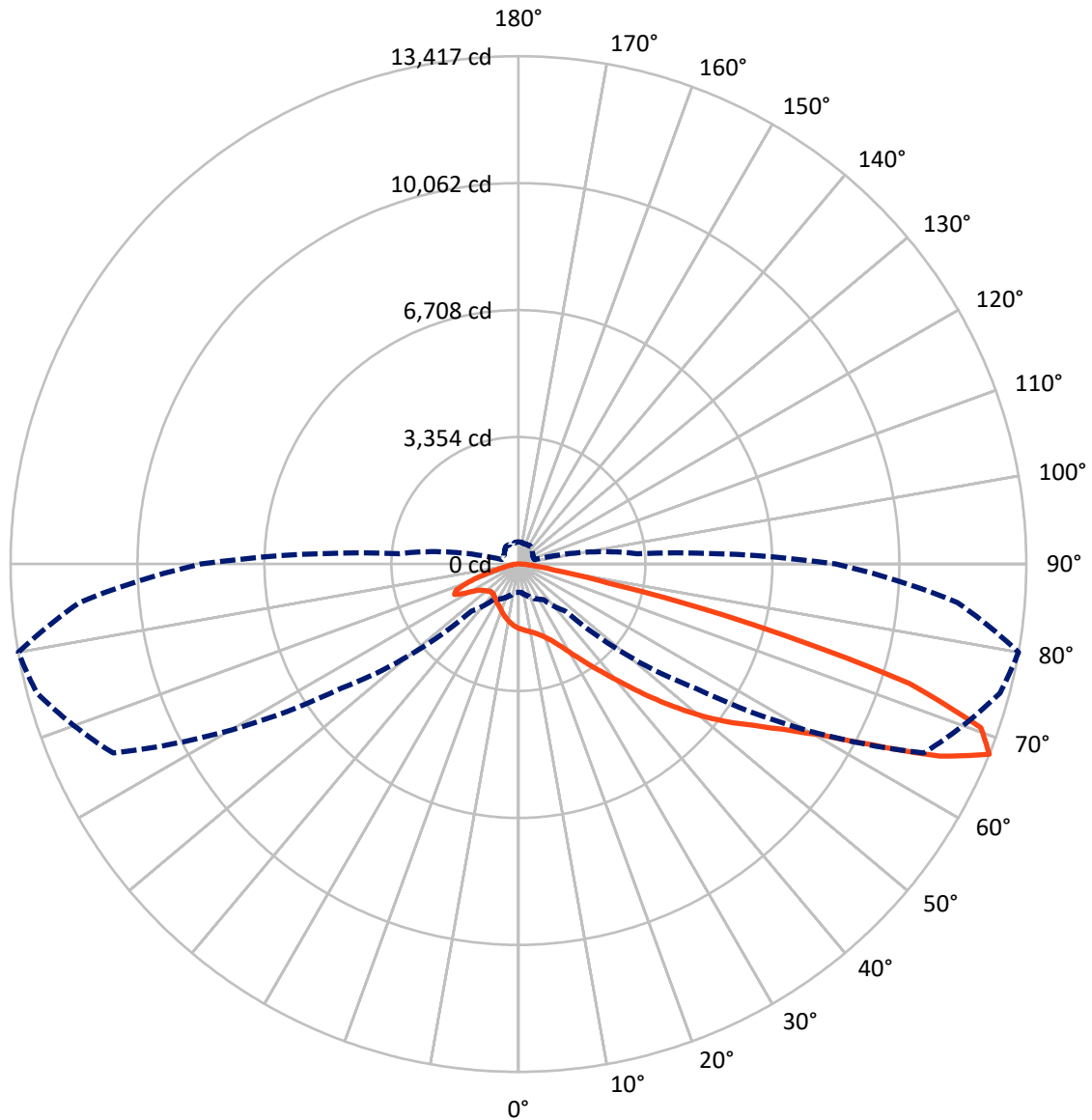


Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Medium - Full Cutoff

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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	2251.4	0.0	2251.4
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	9973.9	0.0	9973.9
	% Fixture	81.6	0.0	81.6
Total	Lumens	12225.3	0.0	12225.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	1.3
10°-20°	451.3	3.7
20°-30°	747.1	6.1
30°-40°	1222.0	10.0
40°-50°	1973.0	16.1
50°-60°	2848.5	23.3
60°-70°	3143.5	25.7
70°-80°	1448.9	11.9
80°-90°	234.4	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°	12225.3	100.0
0°-180°	12225.3	100.0



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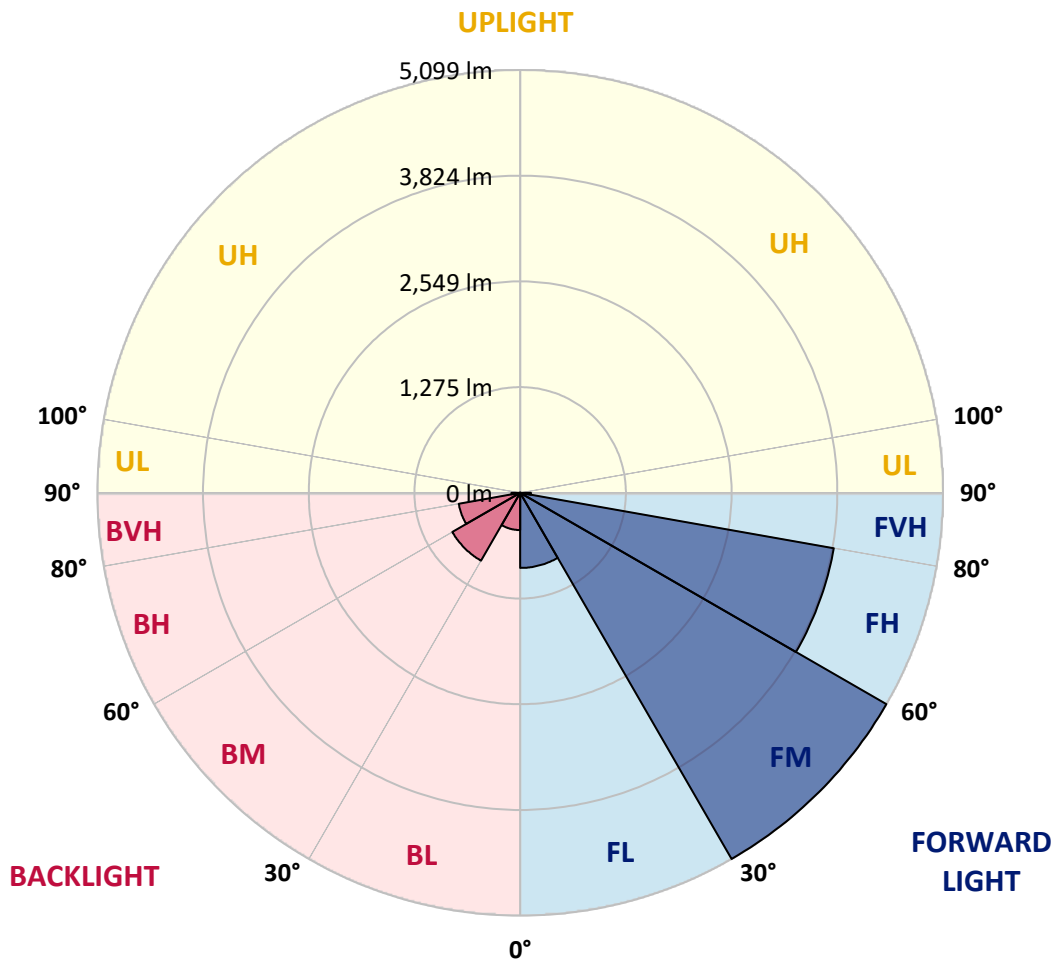
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	905.9	7.4			
FM	(30°-60°)	5098.9	41.7			
FH	(60°-80°)	3840.3	31.4			G2/5000
FVH	(80°-90°)	128.8	1.1			G2/225
BL	(0°-30°)	449.2	3.7	B1/500		
BM	(30°-60°)	944.6	7.7	B1/1000		
BH	(60°-80°)	752.1	6.2	B2/1000		G2/1000
BVH	(80°-90°)	105.5	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°	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4
2.5°	1858.0	1847.1	1848.9	1845.9	1836.9	1821.3	1804.4	1773.7	1741.8	1724.9	1711.7
5°	2013.3	2010.2	2006.0	1996.4	1973.5	1940.9	1900.6	1846.5	1788.1	1757.4	1728.0
7.5°	2129.4	2127.5	2122.1	2116.2	2093.9	2054.7	1993.9	1916.9	1832.1	1790.0	1744.2
10°	2139.0	2142.1	2146.3	2162.5	2165.5	2144.4	2082.4	1989.1	1877.8	1823.6	1765.2
12.5°	2057.2	2063.8	2080.1	2121.6	2165.5	2191.4	2159.4	2065.0	1931.3	1865.8	1791.7
15°	1948.8	1952.4	1972.2	2029.4	2108.3	2188.4	2218.5	2148.6	2000.6	1920.0	1831.5
17.5°	1902.5	1904.3	1918.1	1956.1	2029.4	2143.8	2251.5	2239.5	2085.5	1987.4	1880.2
20°	1879.0	1883.3	1903.1	1940.4	1986.8	2086.6	2256.3	2337.6	2186.6	2071.6	1941.6
22.5°	1945.9	1944.0	1951.3	1969.9	2009.0	2069.2	2252.7	2438.7	2315.3	2179.9	2021.7
25°	2101.7	2108.3	2095.7	2074.6	2087.2	2129.4	2272.0	2548.3	2476.7	2318.9	2126.4
27.5°	2323.7	2317.2	2298.5	2249.2	2223.3	2241.3	2335.8	2666.2	2677.1	2501.9	2264.8
30°	2545.3	2539.9	2521.8	2461.6	2408.6	2393.6	2459.8	2801.7	2916.0	2721.6	2434.5
32.5°	2775.2	2769.1	2752.4	2692.1	2628.4	2593.4	2636.1	2958.2	3197.6	2984.0	2634.3
35°	3058.6	3047.2	3011.7	2928.1	2865.5	2838.4	2858.2	3155.0	3522.6	3294.6	2876.8
37.5°	3325.3	3342.7	3306.6	3191.1	3109.8	3100.2	3122.5	3395.1	3873.0	3641.8	3155.6
40°	3593.1	3596.1	3563.7	3469.1	3385.5	3369.8	3425.8	3686.4	4286.5	4057.1	3494.4
42.5°	3869.9	3876.0	3821.2	3734.0	3672.6	3675.6	3739.4	4027.7	4760.7	4546.4	3884.5
45°	4198.0	4207.0	4146.8	4032.5	3976.5	4089.0	4062.5	4410.5	5280.7	5102.6	4332.2
47.5°	4541.0	4554.9	4509.2	4402.0	4332.2	4486.9	4385.8	4834.8	5840.4	5699.0	4823.9
50°	4728.2	4748.0	4792.6	4784.8	4769.7	4743.8	4746.3	5289.8	6417.6	6320.1	5329.5
52.5°	4627.7	4627.1	4789.6	4987.0	5197.6	5213.3	5185.6	5769.4	6956.9	6927.4	5805.6
55°	4167.9	4199.2	4445.3	4827.5	5402.9	5762.2	5844.0	6319.0	7486.6	7520.8	6288.8
57.5°	3402.3	3428.2	3760.5	4293.0	5126.0	6088.4	6780.5	7117.6	8078.8	8238.8	6932.2
60°	2307.6	2338.9	2690.9	3330.7	4380.9	5906.6	7671.9	8542.8	8787.8	9151.8	7835.0
62.5°	1356.0	1384.3	1671.4	2101.1	3084.5	5062.3	8063.1	10570.5	9913.8	10529.5	9212.1
65°	933.4	952.8	1092.4	1307.8	1772.5	3409.5	7578.0	11970.4	11646.6	12236.4	10808.8
67.5°	751.2	748.7	859.5	1006.3	1141.1	1758.0	5730.3	11812.1	13170.5	13416.6	11637.6
70°	618.7	616.3	691.5	813.1	911.9	990.0	3121.2	9968.0	12859.9	12959.9	10874.4
72.5°	517.6	520.0	568.1	658.5	748.1	745.7	1371.7	7012.2	10116.7	10807.6	8668.6
75°	436.9	438.1	470.0	533.9	607.3	600.7	743.9	3798.9	5880.7	6361.6	4805.2
77.5°	371.9	373.2	393.6	429.1	481.5	479.0	542.9	1641.2	2453.1	2423.1	1643.7
80°	331.6	331.6	341.3	347.9	376.8	365.9	402.6	788.4	1037.0	957.6	656.0
82.5°	260.0	261.2	320.2	317.8	296.8	282.8	282.8	464.6	549.5	508.0	384.0
85°	146.3	145.7	206.4	249.2	261.2	199.2	197.4	260.0	299.1	263.6	186.0
87.5°	62.6	63.8	95.6	110.8	148.0	124.0	122.1	134.2	152.3	131.9	86.0
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°	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4	1698.4
2.5°	1699.0	1683.4	1649.1	1606.3	1567.9	1542.6	1519.7	1486.6	1488.4	1465.5	1448.7
5°	1697.9	1665.4	1585.9	1491.4	1400.5	1335.0	1285.5	1241.0	1230.2	1209.1	1196.5
7.5°	1699.0	1646.1	1512.4	1361.4	1248.8	1165.8	1123.7	1100.2	1094.8	1087.6	1088.1
10°	1703.2	1628.6	1431.8	1239.8	1121.9	1067.1	1056.9	1064.1	1072.6	1074.9	1075.5
12.5°	1712.9	1613.0	1343.3	1131.5	1042.4	1025.6	1043.0	1067.7	1083.9	1091.8	1091.2
15°	1734.5	1600.9	1258.5	1046.7	998.5	1007.5	1040.0	1074.9	1098.4	1109.2	1109.8
17.5°	1758.0	1583.5	1171.2	981.6	966.0	988.9	1029.2	1070.1	1099.0	1111.0	1113.5
20°	1788.7	1561.8	1079.7	932.9	935.3	961.2	999.1	1040.0	1072.0	1082.2	1087.0
22.5°	1829.0	1538.3	999.7	893.1	900.4	920.2	949.7	985.2	1012.9	1017.7	1021.9
25°	1883.3	1513.0	935.9	857.0	860.1	871.5	891.4	912.4	931.7	926.3	930.5
27.5°	1956.1	1491.4	888.3	824.0	818.6	820.9	831.1	837.8	848.0	833.0	834.8
30°	2041.5	1467.9	851.6	795.0	780.0	775.8	778.2	781.8	789.6	769.2	766.2
32.5°	2140.8	1439.6	817.3	769.8	748.7	740.3	741.5	751.2	781.2	768.5	762.0
35°	2256.3	1407.8	781.2	742.0	727.6	715.7	714.4	744.5	834.2	826.3	820.3
37.5°	2391.8	1375.9	745.1	710.7	712.0	698.8	694.6	728.9	844.4	813.8	809.5
40°	2563.9	1359.0	714.4	677.7	692.7	690.9	682.5	700.0	777.0	721.1	713.8
42.5°	2777.0	1361.4	691.5	642.2	669.8	689.2	675.9	676.5	704.2	662.1	655.4
45°	3040.0	1389.7	675.2	613.9	643.9	687.3	673.5	663.9	666.2	643.9	640.4
47.5°	3346.9	1448.1	663.9	590.4	619.3	680.7	672.9	660.2	654.8	642.8	639.8
50°	3688.1	1532.9	655.4	568.1	597.0	669.8	673.5	656.6	650.6	645.8	643.9
52.5°	4023.5	1629.9	642.8	548.9	579.6	656.6	675.2	653.1	646.4	642.8	641.0
55°	4397.2	1750.8	623.5	532.7	565.2	639.8	675.2	647.6	640.4	641.0	640.4
57.5°	4902.2	1946.4	600.7	518.8	547.7	619.3	663.9	641.6	632.6	633.2	633.7
60°	5691.2	2291.3	573.0	504.9	526.0	595.3	648.2	628.3	619.3	621.7	622.4
62.5°	6851.5	2797.5	536.8	484.5	503.2	569.4	626.6	611.5	602.4	608.5	608.5
65°	8057.7	3244.0	492.3	458.6	479.0	541.0	599.4	590.4	581.4	595.3	594.6
67.5°	8382.1	3144.1	447.7	430.4	455.0	509.7	566.9	562.1	557.3	581.4	580.2
70°	7446.2	2524.2	406.8	401.4	428.5	476.1	532.0	532.0	529.1	547.1	542.9
72.5°	5673.1	1790.0	367.8	370.7	398.4	439.4	494.1	498.4	493.6	502.6	498.9
75°	3036.9	1024.4	328.6	337.1	361.1	402.0	452.0	456.2	453.2	452.6	454.4
77.5°	1009.3	500.7	287.7	301.0	322.0	363.6	408.1	414.7	407.4	406.2	405.7
80°	449.6	314.8	242.5	260.0	278.7	319.6	361.7	367.1	359.3	370.1	356.3
82.5°	288.9	207.0	194.4	213.7	231.7	275.7	315.4	316.6	309.3	359.3	306.4
85°	140.2	128.2	146.3	163.7	179.3	216.7	261.2	261.8	243.8	222.1	214.3
87.5°	69.8	74.7	97.5	113.1	121.0	148.6	190.2	186.6	178.7	162.5	149.9
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)