

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: P191351

Luminaire Tested: **GLEON-AF-03-LED-E1-T2-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191351
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-03-LED-E1-T2-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12018.6 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

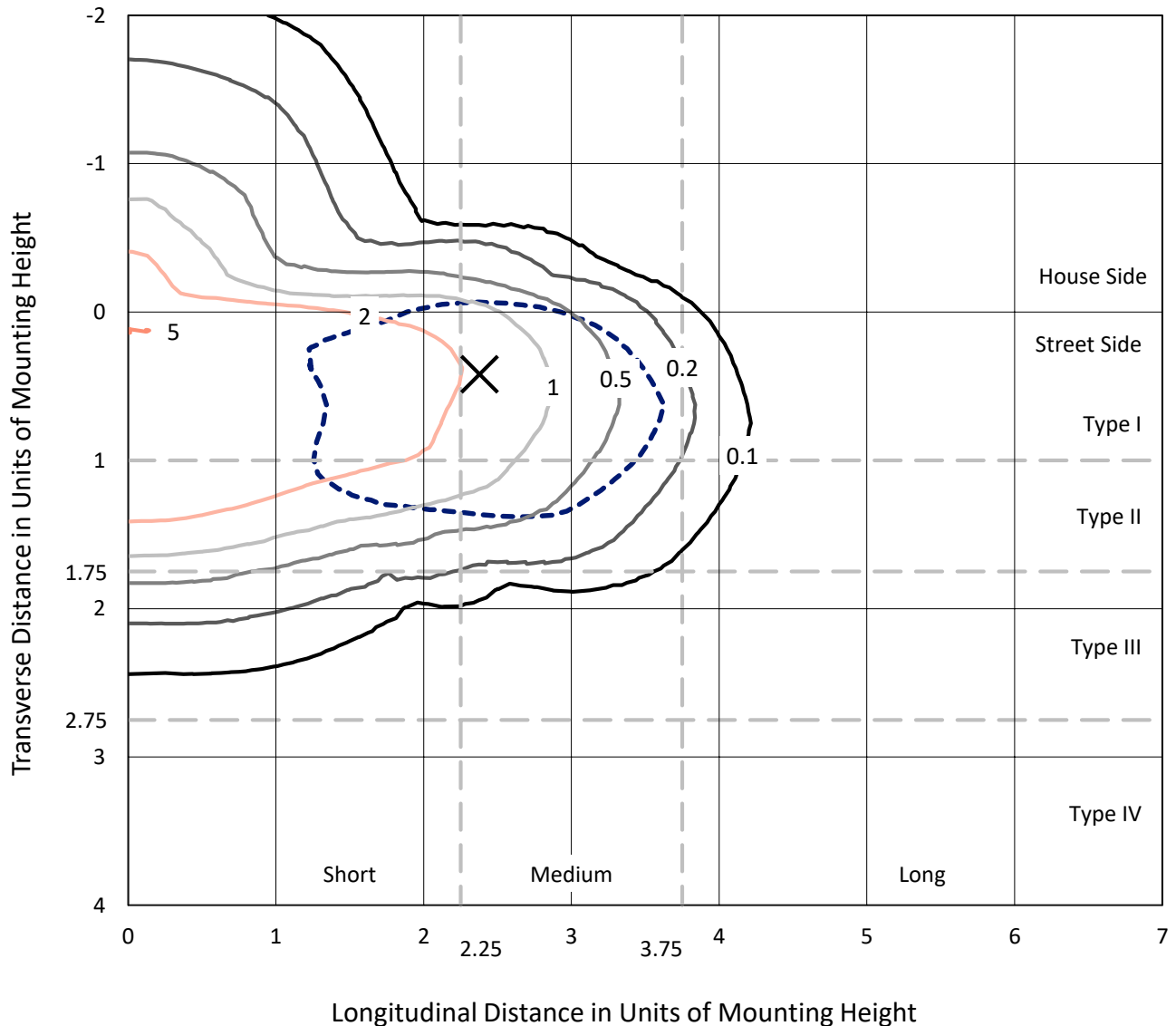
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

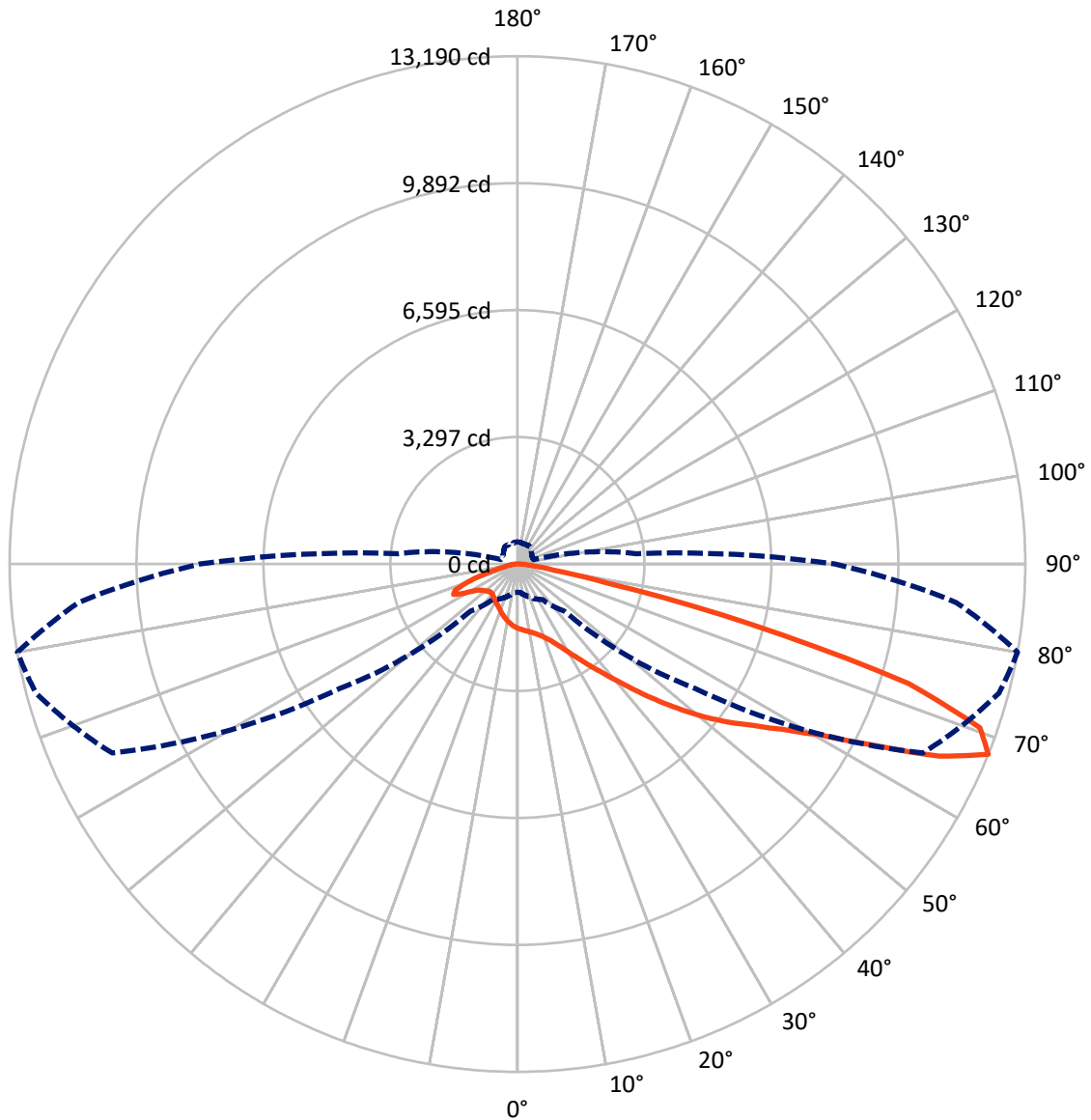
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 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	2213.4	0.0	2213.4
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	9805.3	0.0	9805.3
	% Fixture	81.6	0.0	81.6
Total	Lumens	12018.6	0.0	12018.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.0	1.3
10°-20°	443.7	3.7
20°-30°	734.4	6.1
30°-40°	1201.3	10.0
40°-50°	1939.7	16.1
50°-60°	2800.3	23.3
60°-70°	3090.3	25.7
70°-80°	1424.4	11.9
80°-90°	230.4	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°	12018.6	100.0
0°-180°	12018.6	100.0



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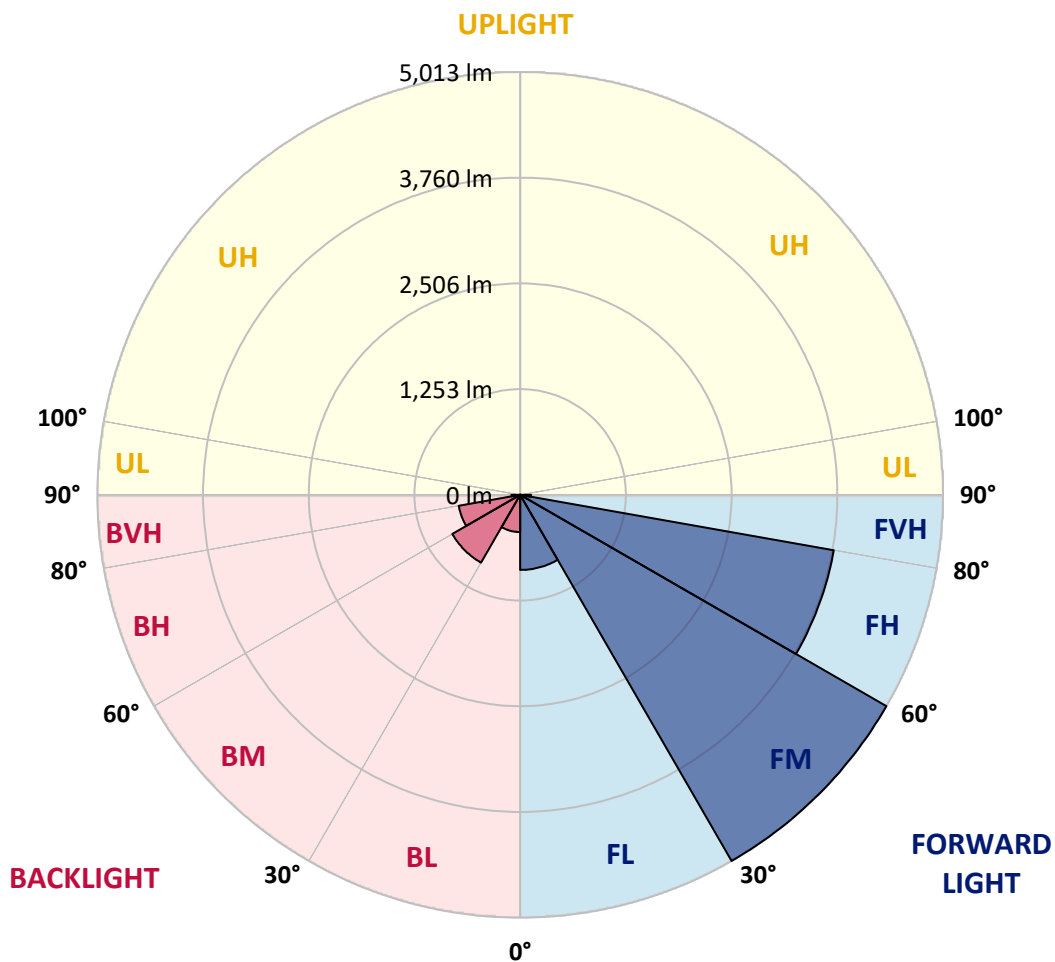
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	890.6	7.4			
FM (30°-60°)	5012.7	41.7			
FH (60°-80°)	3775.4	31.4			G2/5000
FVH (80°-90°)	126.7	1.1			G2/225
BL (0°-30°)	441.6	3.7	B1/500		
BM (30°-60°)	928.7	7.7	B1/1000		
BH (60°-80°)	739.4	6.2	B2/1000		G2/1000
BVH (80°-90°)	103.7	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°	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8
2.5°	1826.6	1815.8	1817.7	1814.7	1805.8	1790.5	1773.9	1743.7	1712.3	1695.7	1682.8
5°	1979.2	1976.2	1972.0	1962.6	1940.1	1908.2	1868.5	1815.3	1757.9	1727.8	1698.7
7.5°	2093.4	2091.6	2086.3	2080.4	2058.5	2020.0	1960.3	1884.5	1801.1	1759.7	1714.7
10°	2102.9	2105.8	2109.9	2125.9	2128.9	2108.2	2047.2	1955.6	1846.0	1792.8	1735.4
12.5°	2022.4	2028.9	2044.9	2085.7	2128.9	2154.3	2122.9	2030.0	1898.7	1834.3	1761.4
15°	1915.9	1919.5	1939.0	1995.2	2072.7	2151.4	2180.9	2112.3	1966.7	1887.4	1800.5
17.5°	1870.4	1872.1	1885.7	1922.9	1995.2	2107.6	2213.5	2201.7	2050.2	1953.7	1848.5
20°	1847.2	1851.4	1870.9	1907.6	1953.1	2051.4	2218.3	2298.2	2149.6	2036.6	1908.8
22.5°	1912.9	1911.2	1918.2	1936.5	1975.0	2034.2	2214.7	2397.5	2276.2	2143.1	1987.5
25°	2066.2	2072.7	2060.2	2039.6	2051.9	2093.4	2233.6	2505.2	2434.8	2279.7	2090.4
27.5°	2284.5	2278.0	2259.7	2211.1	2185.7	2203.4	2296.3	2621.2	2631.8	2459.7	2226.6
30°	2502.2	2496.9	2479.1	2420.0	2367.9	2353.1	2418.3	2754.3	2866.7	2675.6	2393.4
32.5°	2728.3	2722.4	2705.8	2646.6	2583.9	2549.6	2591.5	2908.1	3143.6	2933.6	2589.8
35°	3007.0	2995.7	2960.8	2878.6	2817.0	2790.4	2809.9	3101.6	3463.1	3238.9	2828.3
37.5°	3269.0	3286.2	3250.7	3137.1	3057.3	3047.8	3069.7	3337.7	3807.5	3580.3	3102.2
40°	3532.4	3535.3	3503.4	3410.5	3328.3	3312.8	3367.9	3624.1	4213.9	3988.6	3435.4
42.5°	3804.6	3810.5	3756.6	3670.9	3610.5	3613.5	3676.2	3959.5	4680.2	4469.6	3818.8
45°	4127.0	4135.9	4076.8	3964.3	3909.3	4019.9	3993.9	4335.9	5191.5	5016.3	4259.0
47.5°	4464.3	4477.9	4433.0	4327.6	4259.0	4411.1	4311.6	4753.0	5741.7	5602.7	4742.4
50°	4648.3	4667.8	4711.6	4703.9	4689.1	4663.6	4666.1	5200.4	6309.2	6213.3	5239.3
52.5°	4549.5	4548.9	4708.6	4902.7	5109.8	5125.2	5098.0	5672.0	6839.3	6810.3	5707.5
55°	4097.4	4128.2	4370.1	4745.9	5311.6	5664.8	5745.3	6212.1	7360.0	7393.7	6182.5
57.5°	3344.8	3370.2	3696.8	4220.5	5039.4	5985.5	6666.0	6997.3	7942.2	8099.6	6815.0
60°	2268.5	2299.3	2645.5	3274.4	4306.9	5806.8	7542.2	8398.4	8639.2	8997.2	7702.6
62.5°	1333.1	1360.8	1643.1	2065.5	3032.4	4976.7	7926.8	10391.7	9746.3	10351.5	9056.4
65°	917.7	936.6	1073.9	1285.7	1742.5	3351.9	7449.9	11768.0	11449.7	12029.6	10626.1
67.5°	738.5	736.0	845.0	989.3	1121.9	1728.3	5633.5	11612.4	12947.9	13189.9	11440.9
70°	608.2	605.9	679.9	799.3	896.4	973.3	3068.4	9799.6	12642.5	12740.8	10690.6
72.5°	508.8	511.2	558.5	647.3	735.5	733.1	1348.5	6893.8	9945.6	10624.9	8522.1
75°	429.5	430.8	462.1	524.9	597.0	590.5	731.3	3734.7	5781.4	6254.1	4724.0
77.5°	365.7	366.8	387.0	421.9	473.3	471.0	533.7	1613.5	2411.7	2382.1	1615.9
80°	326.0	326.0	335.5	342.0	370.4	359.8	395.9	775.1	1019.5	941.4	645.0
82.5°	255.6	256.8	314.8	312.4	291.7	278.1	278.1	456.7	540.2	499.4	377.5
85°	143.8	143.2	203.0	245.0	256.8	195.9	194.1	255.6	294.1	259.1	182.8
87.5°	61.6	62.7	94.1	108.8	145.6	121.9	120.1	132.0	149.7	129.6	84.6
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°	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8	1669.8
2.5°	1670.4	1654.9	1621.2	1579.2	1541.4	1516.5	1494.0	1461.5	1463.2	1440.7	1424.2
5°	1669.1	1637.2	1559.1	1466.2	1376.9	1312.3	1263.9	1220.1	1209.4	1188.7	1176.3
7.5°	1670.4	1618.3	1486.9	1338.4	1227.7	1146.1	1104.7	1081.6	1076.2	1069.2	1069.8
10°	1674.5	1601.1	1407.6	1218.8	1102.9	1049.0	1039.0	1046.1	1054.4	1056.7	1057.3
12.5°	1684.0	1585.7	1320.6	1112.4	1024.8	1008.2	1025.4	1049.6	1065.6	1073.3	1072.8
15°	1705.3	1573.9	1237.3	1029.0	981.6	990.5	1022.4	1056.7	1079.8	1090.5	1091.1
17.5°	1728.3	1556.7	1151.4	965.1	949.7	972.1	1011.8	1052.0	1080.4	1092.2	1094.7
20°	1758.5	1535.4	1061.5	917.1	919.5	944.9	982.2	1022.4	1053.8	1063.9	1068.6
22.5°	1798.1	1512.3	982.7	878.1	885.2	904.7	933.6	968.6	995.8	1000.5	1004.6
25°	1851.4	1487.5	920.0	842.6	845.6	856.7	876.3	897.0	916.0	910.6	914.7
27.5°	1922.9	1466.2	873.3	810.0	804.7	807.1	817.1	823.6	833.7	818.9	820.7
30°	2007.0	1443.1	837.3	781.6	766.8	762.7	765.1	768.6	776.3	756.2	753.2
32.5°	2104.6	1415.4	803.5	756.8	736.0	727.7	729.0	738.5	768.0	755.6	749.1
35°	2218.3	1384.0	768.0	729.6	715.3	703.5	702.4	731.9	820.1	812.4	806.5
37.5°	2351.4	1352.5	732.5	698.8	700.0	686.9	682.8	716.6	830.1	799.9	795.9
40°	2520.6	1336.1	702.4	666.2	681.1	679.2	671.0	688.1	763.8	708.8	701.7
42.5°	2730.1	1338.4	679.9	631.4	658.6	677.5	664.5	665.0	692.2	650.9	644.4
45°	2988.7	1366.3	663.9	603.5	633.1	675.7	662.1	652.6	655.0	633.1	629.5
47.5°	3290.3	1423.6	652.6	580.4	608.9	669.2	661.5	649.1	643.7	631.9	629.0
50°	3625.8	1507.0	644.4	558.5	587.0	658.6	662.1	645.5	639.7	634.8	633.1
52.5°	3955.4	1602.2	631.9	539.6	569.8	645.5	663.9	642.0	635.5	631.9	630.1
55°	4322.9	1721.2	613.0	523.6	555.6	629.0	663.9	636.7	629.5	630.1	629.5
57.5°	4819.3	1913.5	590.5	510.0	538.5	608.9	652.6	630.8	621.9	622.5	623.1
60°	5595.0	2252.5	563.2	496.4	517.1	585.1	637.2	617.8	608.9	611.2	611.8
62.5°	6735.7	2750.2	527.7	476.3	494.7	559.8	615.9	601.2	592.3	598.2	598.2
65°	7921.5	3189.2	484.0	450.8	471.0	531.9	589.3	580.4	571.5	585.1	584.6
67.5°	8240.4	3090.9	440.2	423.1	447.3	501.1	557.4	552.6	547.9	571.5	570.4
70°	7320.3	2481.6	400.0	394.7	421.3	468.0	523.0	523.0	520.1	537.9	533.7
72.5°	5577.2	1759.7	361.5	364.5	391.7	431.9	485.8	489.9	485.2	494.1	490.5
75°	2985.7	1007.1	323.0	331.3	355.0	395.3	444.4	448.5	445.5	445.0	446.7
77.5°	992.3	492.2	282.8	295.8	316.6	357.4	401.2	407.6	400.6	399.4	398.7
80°	442.0	309.4	238.4	255.6	273.9	314.1	355.6	360.9	353.2	363.9	350.3
82.5°	284.0	203.6	191.1	210.0	227.8	271.0	310.1	311.2	304.1	353.2	301.2
85°	137.9	126.0	143.8	160.9	176.4	213.0	256.8	257.4	239.7	218.3	210.6
87.5°	68.6	73.3	95.9	111.2	119.0	146.2	187.0	183.4	175.7	159.8	147.3
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)