

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: P269100

Luminaire Tested: **GLEON-AF-02-LED-E1-T2-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269100
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-T2-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11391.1 lumens
Efficiency: N/A
Efficacy: 88.3 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

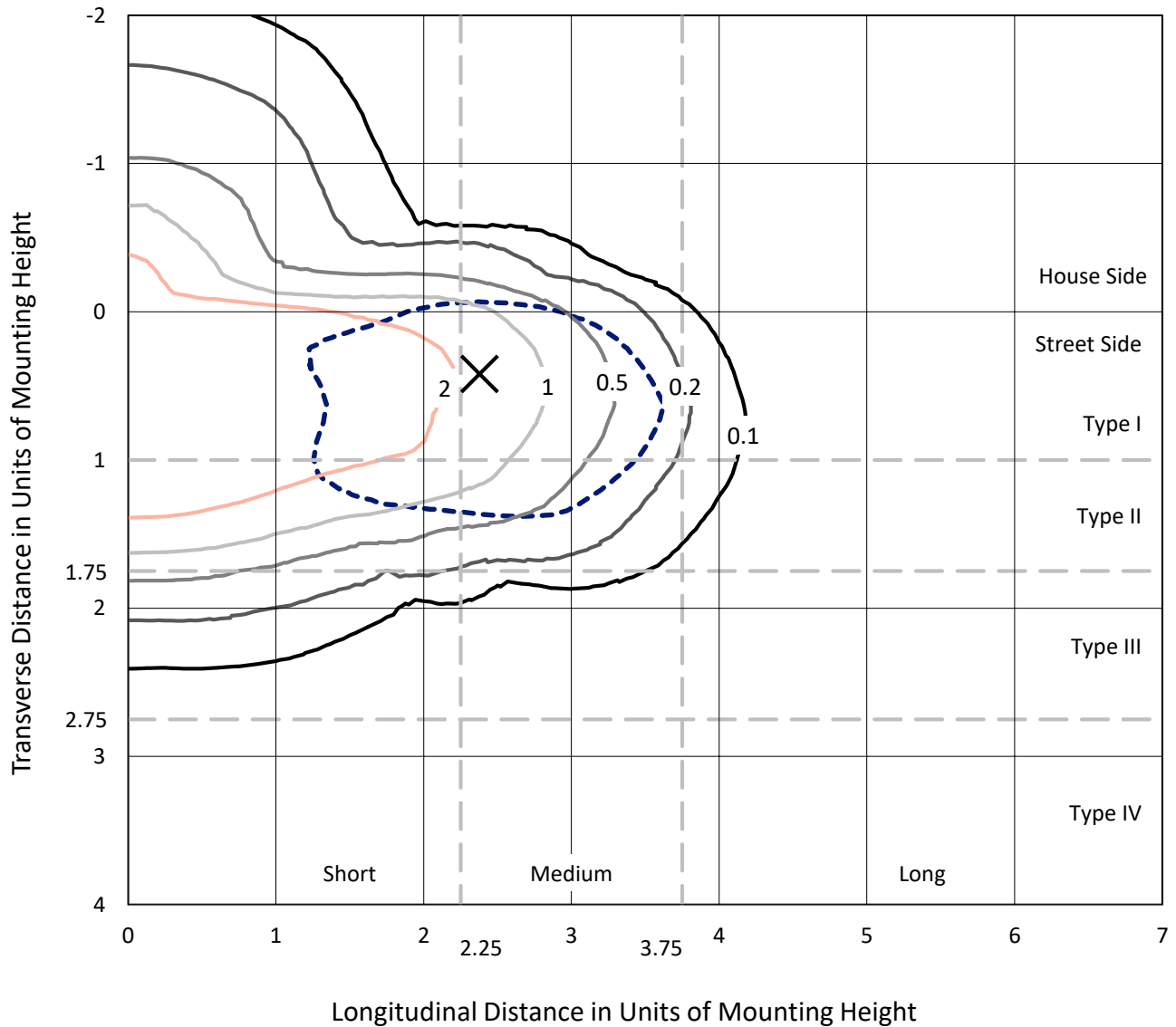
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

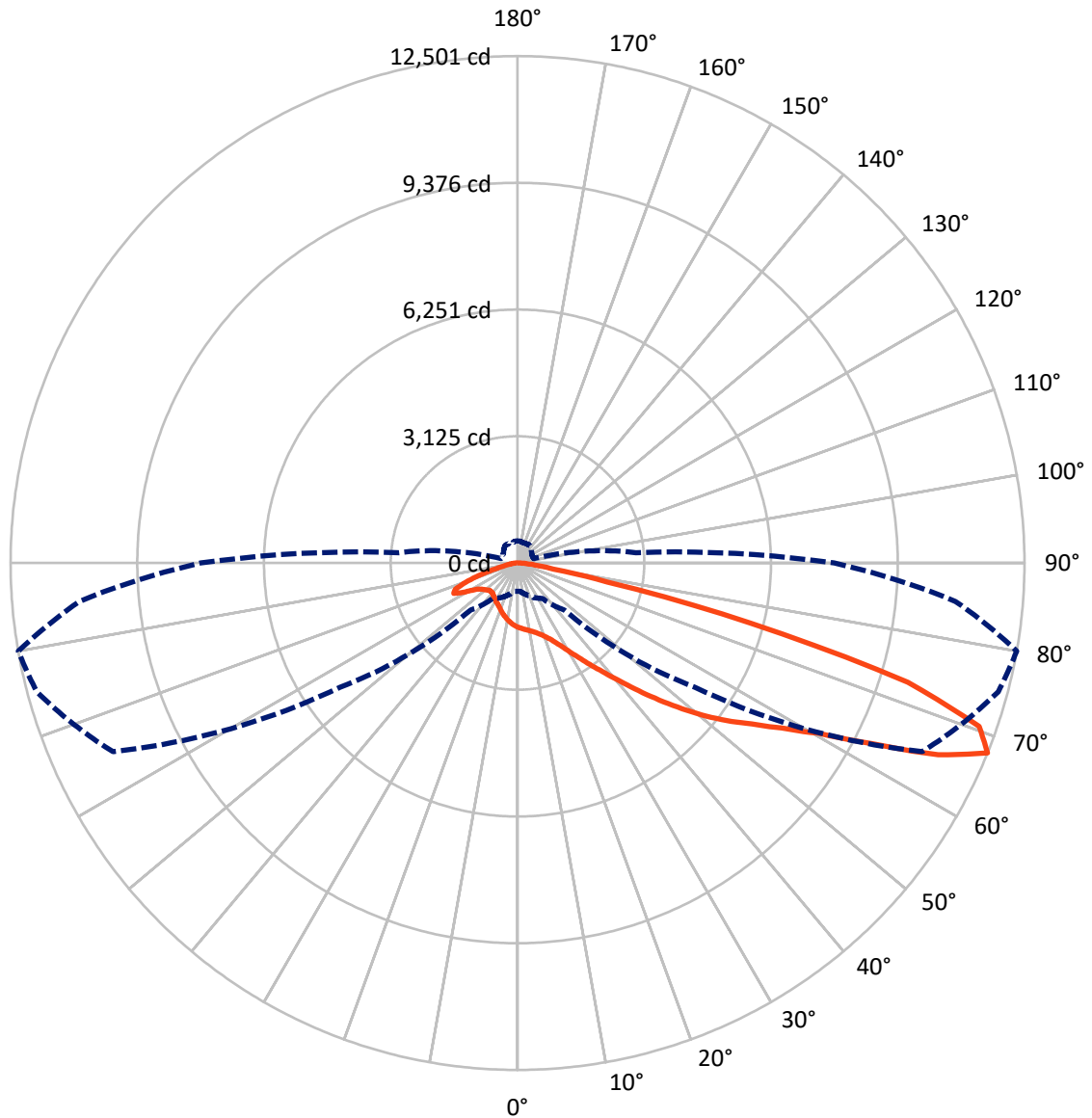
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 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	2097.8	0.0	2097.8
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	9293.3	0.0	9293.3
	% Fixture	81.6	0.0	81.6
Total	Lumens	11391.1	0.0	11391.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	1.3
10°-20°	420.5	3.7
20°-30°	696.1	6.1
30°-40°	1138.6	10.0
40°-50°	1838.4	16.1
50°-60°	2654.1	23.3
60°-70°	2929.0	25.7
70°-80°	1350.1	11.9
80°-90°	218.4	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°	11391.1	100.0
0°-180°	11391.1	100.0



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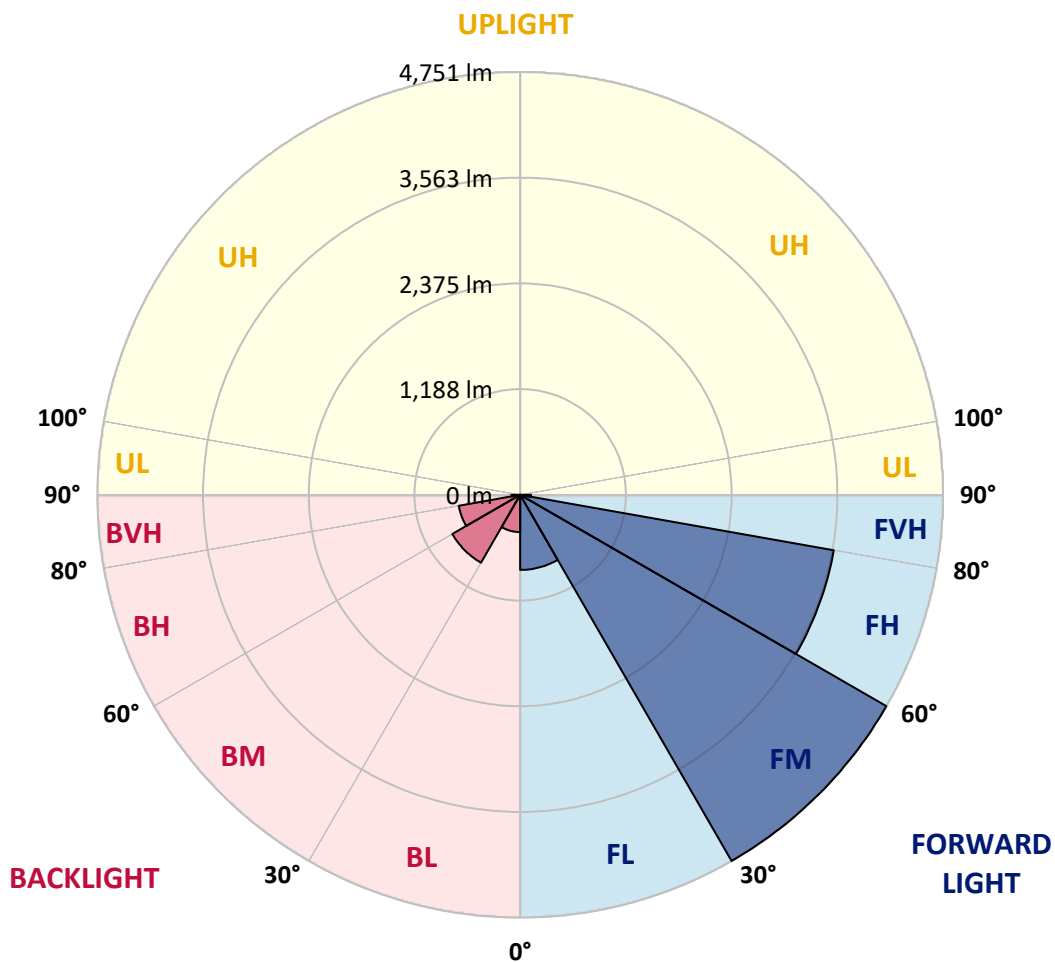
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	844.1	7.4			
FM (30°-60°)	4750.9	41.7			
FH (60°-80°)	3578.2	31.4			G2/5000
FVH (80°-90°)	120.1	1.1			G2/225
BL (0°-30°)	418.5	3.7	B1/500		
BM (30°-60°)	880.2	7.7	B1/1000		
BH (60°-80°)	700.8	6.2	B2/1000		G2/1000
BVH (80°-90°)	98.3	0.9			G1/100
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°	1582.5	1582.5	1582.5	1582.5	1582.5	1582.5	1582.5	1582.5	1582.5	1582.5	1582.5
2.5°	1731.2	1721.1	1722.8	1720.0	1711.5	1697.0	1681.3	1652.6	1622.9	1607.2	1594.9
5°	1875.8	1873.1	1869.2	1860.1	1838.8	1808.6	1771.0	1720.6	1666.0	1637.5	1610.0
7.5°	1984.0	1982.4	1977.3	1971.7	1950.9	1914.6	1858.0	1786.1	1707.0	1667.9	1625.2
10°	1993.1	1995.9	1999.7	2014.9	2017.8	1998.1	1940.2	1853.5	1749.7	1699.2	1644.7
12.5°	1916.8	1922.9	1938.2	1976.8	2017.8	2041.8	2012.2	1924.1	1799.6	1738.5	1669.5
15°	1815.8	1819.2	1837.8	1891.0	1964.5	2039.1	2067.1	2002.1	1864.1	1789.0	1706.5
17.5°	1772.6	1774.3	1787.3	1822.7	1891.0	1997.6	2097.9	2086.8	1943.2	1851.8	1752.0
20°	1750.7	1754.7	1773.3	1808.0	1851.1	1944.2	2102.5	2178.1	2037.4	1930.3	1809.0
22.5°	1813.0	1811.3	1818.1	1835.4	1871.9	1928.0	2099.0	2272.4	2157.4	2031.2	1883.7
25°	1958.2	1964.5	1952.6	1933.1	1944.8	1984.0	2116.9	2374.4	2307.7	2160.8	1981.3
27.5°	2165.3	2159.0	2141.6	2095.7	2071.5	2088.4	2176.5	2484.4	2494.5	2331.2	2110.3
30°	2371.5	2366.6	2349.6	2293.6	2244.2	2230.2	2291.9	2610.5	2717.1	2535.8	2268.4
32.5°	2585.9	2580.2	2564.5	2508.3	2449.0	2416.4	2456.2	2756.3	2979.5	2780.4	2454.6
35°	2850.0	2839.4	2806.1	2728.2	2669.9	2644.7	2663.1	2939.7	3282.2	3069.8	2680.6
37.5°	3098.3	3114.7	3080.9	2973.3	2897.7	2888.6	2909.4	3163.4	3608.8	3393.3	2940.2
40°	3348.0	3350.7	3320.4	3232.5	3154.5	3139.8	3191.9	3434.8	3994.0	3780.2	3255.9
42.5°	3605.8	3611.5	3560.4	3479.1	3422.0	3424.8	3484.2	3752.8	4435.9	4236.1	3619.4
45°	3911.5	3919.9	3863.9	3757.3	3705.1	3810.0	3785.4	4109.4	4920.3	4754.4	4036.5
47.5°	4231.1	4244.0	4201.5	4101.7	4036.5	4180.7	4086.5	4504.8	5441.9	5310.2	4494.7
50°	4405.6	4424.2	4465.6	4458.3	4444.3	4420.2	4422.4	4928.8	5979.7	5888.8	4965.8
52.5°	4312.0	4311.3	4462.8	4646.8	4843.0	4857.6	4831.8	5375.7	6482.2	6454.7	5409.5
55°	3883.5	3912.7	4142.1	4498.2	5034.2	5369.0	5445.3	5887.8	6975.7	7007.7	5859.7
57.5°	3170.2	3194.3	3503.7	4000.2	4776.3	5672.9	6317.9	6631.8	7527.4	7676.6	6459.3
60°	2150.1	2179.3	2507.3	3103.5	4082.0	5503.6	7148.4	7959.9	8188.1	8527.4	7300.3
62.5°	1263.5	1289.8	1557.3	1957.8	2874.0	4716.8	7513.0	9849.1	9237.4	9811.0	8583.5
65°	869.7	887.7	1017.8	1218.6	1651.5	3176.9	7060.9	11153.5	10851.9	11401.5	10071.3
67.5°	699.9	697.7	800.7	937.7	1063.2	1638.1	5339.3	11006.0	12271.7	12501.2	10843.4
70°	576.5	574.2	644.4	757.6	849.5	922.5	2908.3	9287.8	11982.4	12075.5	10132.3
72.5°	482.3	484.5	529.5	613.5	697.1	694.7	1278.1	6533.8	9426.4	10070.1	8077.1
75°	407.1	408.3	438.0	497.4	565.8	559.6	693.1	3539.7	5479.5	5927.6	4477.3
77.5°	346.6	347.7	366.8	399.8	448.7	446.4	505.8	1529.3	2285.7	2257.7	1531.5
80°	308.9	308.9	318.0	324.2	351.1	340.9	375.1	734.6	966.2	892.2	611.2
82.5°	242.3	243.4	298.3	296.1	276.5	263.6	263.6	433.0	512.0	473.2	357.7
85°	136.3	135.7	192.3	232.1	243.4	185.6	184.0	242.3	278.7	245.6	173.4
87.5°	58.3	59.5	89.1	103.1	138.0	115.5	113.8	125.0	141.9	122.8	80.2
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°	1582.5	1582.5	1582.5	1582.5	1582.5	1582.5	1582.5	1582.5	1582.5	1582.5	1582.5
2.5°	1583.2	1568.5	1536.6	1496.8	1460.9	1437.3	1416.0	1385.1	1386.9	1365.6	1349.9
5°	1581.9	1551.7	1477.7	1389.7	1305.0	1243.9	1197.8	1156.4	1146.2	1126.7	1114.8
7.5°	1583.2	1533.8	1409.4	1268.4	1163.7	1086.2	1047.1	1025.1	1020.0	1013.4	1013.8
10°	1587.0	1517.4	1334.2	1155.2	1045.3	994.2	984.7	991.5	999.4	1001.6	1002.1
12.5°	1596.0	1503.0	1251.7	1054.3	971.2	955.5	971.8	994.9	1010.0	1017.3	1016.7
15°	1616.2	1491.6	1172.6	975.2	930.4	938.8	969.0	1001.6	1023.4	1033.5	1034.0
17.5°	1638.1	1475.5	1091.4	914.7	900.1	921.4	958.9	997.1	1024.0	1035.2	1037.5
20°	1666.6	1455.3	1006.0	869.2	871.4	895.6	931.0	969.0	998.7	1008.3	1012.7
22.5°	1704.3	1433.3	931.5	832.2	838.9	857.4	884.9	918.0	943.8	948.3	952.3
25°	1754.7	1409.8	872.1	798.6	801.4	812.0	830.6	850.2	868.1	863.0	867.0
27.5°	1822.7	1389.7	827.7	767.7	762.8	764.9	774.5	780.5	790.1	776.1	777.8
30°	1902.3	1367.8	793.6	740.8	726.8	722.9	725.1	728.4	735.7	716.7	714.0
32.5°	1994.7	1341.3	761.6	717.2	697.7	689.8	690.8	699.9	727.8	716.0	710.0
35°	2102.5	1311.6	727.8	691.4	678.0	666.8	665.6	693.8	777.3	769.9	764.4
37.5°	2228.5	1282.1	694.3	662.3	663.4	651.1	647.1	679.1	786.7	758.2	754.2
40°	2389.0	1266.3	665.6	631.5	645.4	643.7	635.9	652.2	723.9	671.8	665.0
42.5°	2587.5	1268.4	644.4	598.5	624.1	642.1	629.8	630.3	656.1	616.9	610.7
45°	2832.5	1294.8	629.3	572.0	600.1	640.4	627.6	618.6	620.8	600.1	596.7
47.5°	3118.6	1349.3	618.6	550.1	577.0	634.3	626.9	615.2	610.2	598.9	596.1
50°	3436.6	1428.3	610.7	529.5	556.3	624.1	627.6	611.8	606.3	601.8	600.1
52.5°	3748.8	1518.7	598.9	511.5	540.1	611.8	629.3	608.4	602.4	598.9	597.3
55°	4097.1	1631.3	580.9	496.4	526.5	596.1	629.3	603.4	596.7	597.3	596.7
57.5°	4567.6	1813.6	559.6	483.4	510.2	577.0	618.6	597.8	589.4	589.9	590.5
60°	5302.9	2134.9	533.9	470.5	490.1	554.7	604.0	585.4	577.0	579.2	579.9
62.5°	6384.1	2606.5	500.3	451.5	468.8	530.4	583.8	569.7	561.4	567.0	567.0
65°	7507.9	3022.6	458.8	427.4	446.4	504.2	558.6	550.1	541.7	554.7	554.1
67.5°	7810.1	2929.6	417.3	401.0	424.0	475.1	528.3	523.8	519.3	541.7	540.6
70°	6938.1	2351.9	379.1	374.1	399.2	443.7	495.8	495.8	492.9	509.8	505.8
72.5°	5285.9	1667.9	342.7	345.5	371.2	409.4	460.4	464.3	459.8	468.2	465.0
75°	2829.8	954.4	306.2	314.0	336.4	374.7	421.1	425.1	422.3	421.8	423.5
77.5°	940.4	466.6	268.1	280.5	300.0	338.8	380.3	386.5	379.7	378.5	377.9
80°	418.9	293.2	226.1	242.3	259.6	297.8	337.0	342.1	334.8	344.9	332.1
82.5°	269.2	193.0	181.2	199.1	216.0	256.8	293.8	295.0	288.3	334.8	285.4
85°	130.7	119.5	136.3	152.5	167.2	201.8	243.4	243.9	227.1	206.9	199.7
87.5°	65.0	69.6	90.9	105.5	112.6	138.5	177.2	173.8	166.5	151.5	139.6
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)