

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: P194022

Luminaire Tested: **GLEON-AF-04-LED-E1-T3R-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-T3R-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16185 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 171
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

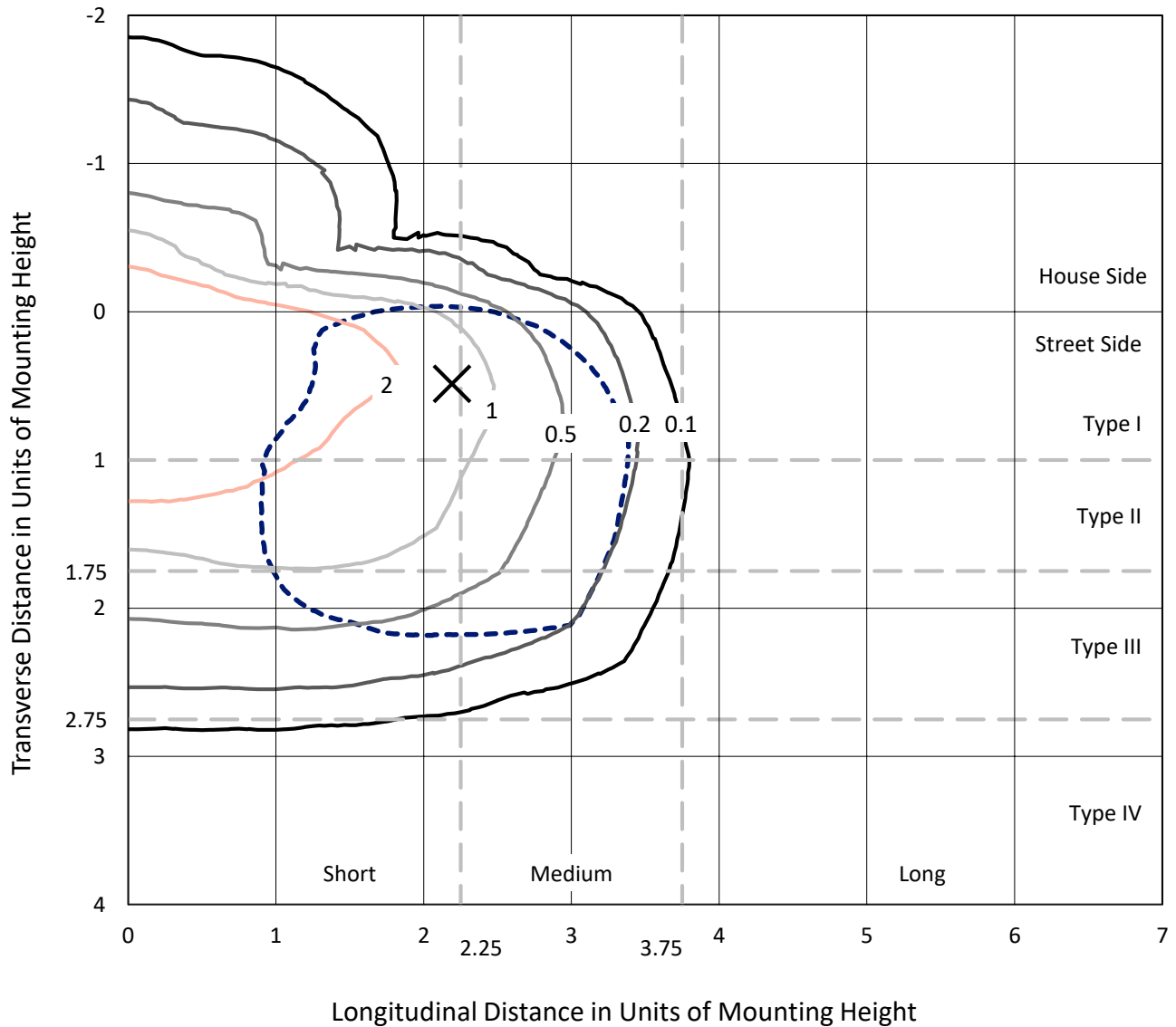


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

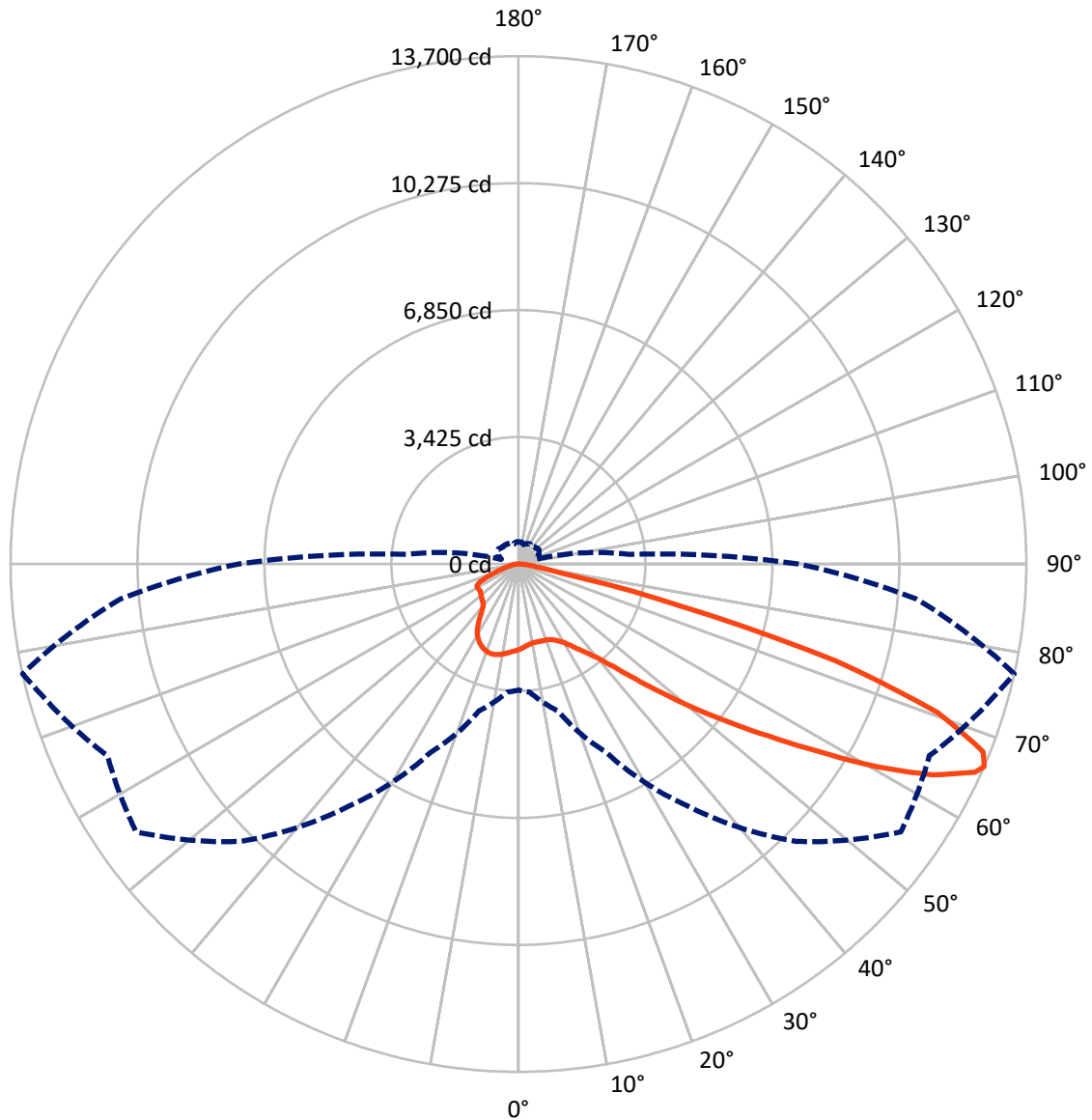


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2765.1	0.0	2765.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	13419.9	0.0	13419.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	16185.0	0.0	16185.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.1	1.3
10°-20°	581.3	3.6
20°-30°	992.1	6.1
30°-40°	1588.2	9.8
40°-50°	2453.7	15.2
50°-60°	3480.1	21.5
60°-70°	4655.5	28.8
70°-80°	2021.8	12.5
80°-90°	206.2	1.3
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°	16185.0	100.0
0°-180°	16185.0	100.0



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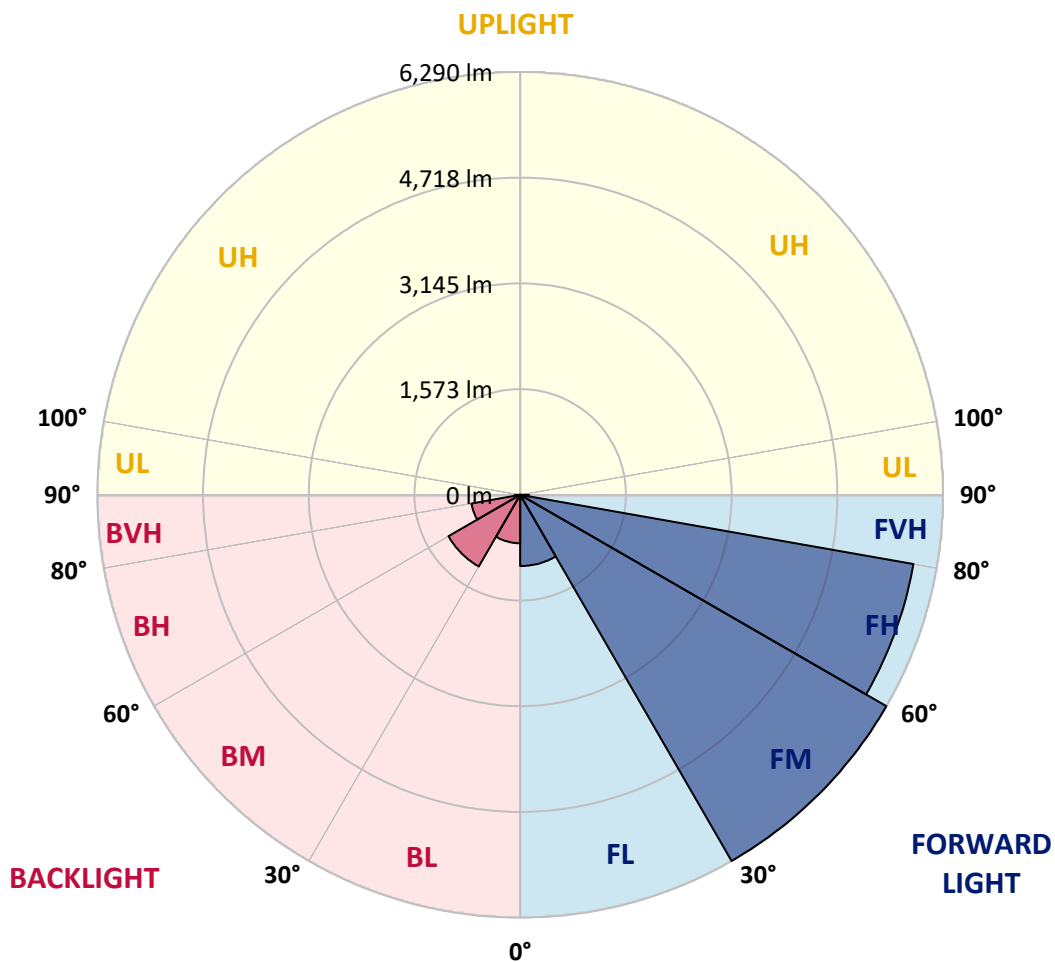
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1059.4	6.5			
FM	(30°-60°)	6290.3	38.9			
FH	(60°-80°)	5940.9	36.7			G3/7500
FVH	(80°-90°)	129.3	0.8			G2/225
BL	(0°-30°)	720.1	4.4	B2/1000		
BM	(30°-60°)	1231.7	7.6	B2/2500		
BH	(60°-80°)	736.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	76.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4
2.5°	2040.3	2054.1	2065.5	2076.3	2097.7	2132.8	2173.4	2206.3	2253.7	2262.8	2288.1
5°	1853.0	1853.0	1862.1	1878.2	1907.2	1960.0	2015.1	2088.5	2191.7	2216.2	2283.5
7.5°	1761.9	1762.7	1768.1	1781.8	1807.1	1855.2	1915.7	2002.1	2142.0	2182.6	2297.3
10°	1795.6	1787.9	1776.5	1769.6	1773.4	1801.7	1859.1	1955.4	2111.4	2163.4	2327.9
12.5°	1983.7	1969.2	1929.4	1876.7	1826.2	1805.5	1839.2	1933.2	2098.4	2158.8	2368.4
15°	2291.1	2285.0	2210.8	2101.5	1979.1	1876.7	1853.7	1924.8	2100.0	2164.2	2416.6
17.5°	2676.6	2668.2	2570.3	2411.2	2211.6	2012.0	1905.0	1931.7	2105.3	2173.4	2463.2
20°	3065.8	3039.8	2934.3	2744.6	2488.4	2196.3	1989.8	1949.3	2112.2	2183.3	2512.2
22.5°	3356.4	3335.0	3240.2	3055.9	2760.7	2409.7	2103.8	1979.9	2134.4	2212.4	2572.6
25°	3611.8	3613.4	3519.3	3341.1	3036.0	2636.0	2250.6	2061.7	2191.0	2272.0	2655.2
27.5°	3927.7	3909.3	3821.4	3644.7	3308.2	2864.7	2428.0	2174.1	2275.1	2356.9	2763.8
30°	4305.5	4292.5	4190.7	3990.4	3610.3	3110.2	2630.7	2304.9	2383.7	2468.6	2906.0
32.5°	4749.8	4743.6	4638.1	4380.4	3959.0	3399.2	2868.5	2477.7	2545.8	2633.7	3110.2
35°	5271.3	5272.1	5147.4	4837.7	4340.6	3735.7	3138.5	2700.3	2743.1	2834.9	3353.4
37.5°	5592.5	5631.5	5584.9	5269.0	4772.7	4112.0	3488.7	2995.5	2967.9	3060.5	3614.1
40°	5661.3	5708.7	5856.3	5695.7	5256.0	4526.5	3799.2	3279.2	3244.8	3357.9	3949.9
42.5°	5565.0	5630.7	5942.8	6055.9	5769.2	5037.3	4216.7	3700.6	3657.0	3809.1	4367.4
45°	5507.6	5556.6	5917.5	6243.3	6214.2	5614.7	4748.2	4229.7	4213.7	4413.3	4849.2
47.5°	5408.2	5452.6	5799.7	6286.9	6475.8	6143.9	5386.8	4876.7	4908.1	5169.6	5392.9
50°	5461.7	5480.1	5668.2	6176.0	6551.5	6531.6	6100.3	5626.2	5733.2	6059.8	6008.5
52.5°	5454.1	5501.5	5652.9	5994.0	6561.4	6771.0	6803.1	6462.0	6687.6	7062.3	6691.4
55°	4409.5	4496.6	5473.2	5948.1	6596.6	7005.7	7428.6	7343.0	7763.6	8200.2	7462.3
57.5°	4210.6	4265.7	4807.1	6044.5	6783.2	7453.9	8124.5	8312.7	9016.2	9523.2	8401.4
60°	4171.6	4239.7	4800.2	6162.2	7161.7	8184.2	9156.2	9486.5	10540.3	11095.5	9490.4
62.5°	4050.0	4123.4	4755.1	6146.9	7699.3	9194.4	10476.9	10734.6	11985.7	12525.6	10401.2
65°	3664.6	3733.4	4387.3	5899.9	8061.8	10272.7	12040.0	11878.6	13126.7	13532.7	10855.4
66°	3400.8	3468.1	4097.4	5609.3	7977.7	10578.6	12593.6	12232.7	13382.1	13700.2	10766.7
67.5°	2918.2	2971.0	3534.6	4958.5	7530.3	10664.2	13059.4	12498.8	13408.9	13521.3	10259.7
70°	1843.8	1859.1	2297.3	3423.0	5700.3	9248.7	12350.5	11838.1	12303.0	11998.7	8601.0
72.5°	799.9	794.6	1102.7	1741.3	3227.2	6205.8	9990.5	9768.0	9651.0	8956.6	6020.8
75°	445.1	451.2	572.8	808.3	1311.5	3048.2	6535.4	6254.0	5280.5	4505.8	2730.1
77.5°	357.1	365.5	474.9	573.6	588.8	1063.0	3058.2	2488.4	1498.1	1202.2	758.6
80°	282.2	297.5	414.5	446.6	396.9	438.2	988.0	790.0	592.7	543.7	393.1
82.5°	223.3	234.0	355.6	338.0	277.6	295.2	473.4	461.1	385.4	351.0	227.1
85°	160.6	180.5	292.1	254.7	182.0	198.8	314.3	301.3	221.0	180.5	100.2
87.5°	65.8	85.7	206.5	169.0	101.7	92.5	156.8	147.6	104.8	76.5	49.7
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°	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4	2306.4
2.5°	2304.1	2322.5	2346.2	2360.7	2368.4	2373.7	2382.1	2381.4	2383.7	2384.4	2387.5
5°	2319.4	2350.0	2384.4	2393.6	2393.6	2385.2	2376.8	2363.0	2357.7	2356.1	2357.7
7.5°	2359.2	2392.9	2422.7	2412.0	2389.0	2355.4	2311.8	2273.6	2252.9	2246.0	2244.5
10°	2409.7	2450.2	2462.4	2421.9	2354.6	2273.6	2187.1	2124.4	2088.5	2078.5	2075.5
12.5°	2470.9	2509.1	2492.3	2406.6	2282.0	2151.2	2031.9	1931.7	1856.8	1833.1	1831.5
15°	2538.2	2568.0	2509.1	2359.2	2173.4	1980.7	1768.1	1595.2	1501.9	1472.1	1469.8
17.5°	2600.9	2616.2	2499.2	2276.6	2013.5	1701.5	1419.3	1286.3	1254.2	1261.8	1263.3
20°	2654.4	2654.4	2465.5	2158.1	1761.9	1333.7	1155.5	1153.2	1176.2	1199.1	1203.7
22.5°	2713.3	2678.1	2406.6	1990.6	1405.6	1091.3	1065.3	1086.7	1112.7	1137.9	1141.7
25°	2785.9	2697.2	2324.8	1736.7	1105.0	991.1	1001.0	1018.6	1031.6	1047.7	1050.0
27.5°	2867.0	2721.7	2217.0	1387.2	959.0	928.4	936.0	942.2	940.6	946.7	948.3
30°	2964.1	2750.0	2069.4	1084.4	898.6	874.9	861.1	855.7	855.7	865.7	869.5
32.5°	3094.1	2792.0	1857.5	929.2	869.5	836.6	792.3	772.4	780.0	813.7	821.3
35°	3237.1	2837.2	1570.8	876.4	863.4	819.0	750.2	713.5	714.3	745.6	755.6
37.5°	3393.1	2894.5	1256.5	866.4	877.2	819.8	728.0	677.6	656.9	656.9	660.7
40°	3592.7	2953.4	1017.1	873.3	906.2	829.0	716.6	649.3	591.1	592.7	595.7
42.5°	3852.7	3003.9	888.6	887.9	941.4	841.2	715.8	611.8	561.3	595.7	627.1
45°	4141.8	3029.1	832.0	900.9	969.7	848.9	703.6	605.7	565.1	667.6	727.3
47.5°	4474.5	3014.6	800.7	905.4	976.6	848.9	689.8	620.2	591.9	773.1	842.7
50°	4839.2	2972.5	770.1	896.3	974.3	847.3	702.8	634.7	601.8	791.5	839.7
52.5°	5268.3	2937.3	738.0	876.4	958.2	838.9	718.1	628.6	570.5	719.6	753.3
55°	5757.7	2947.3	702.0	848.1	933.0	822.9	712.7	604.1	537.6	634.0	654.6
57.5°	6383.2	3065.8	659.2	812.1	898.6	796.1	693.6	592.7	527.7	575.1	587.3
60°	7081.4	3272.3	605.7	776.2	855.7	753.3	679.1	598.0	532.3	570.5	576.6
62.5°	7593.8	3392.4	559.8	723.4	797.6	705.8	660.7	604.9	544.5	586.6	585.0
65°	7733.0	3195.1	502.4	646.2	718.9	656.1	637.8	612.6	549.8	599.6	592.7
66°	7538.0	2982.5	477.2	610.3	679.1	631.7	626.3	611.8	547.5	601.1	589.6
67.5°	7064.6	2546.6	433.6	557.5	615.6	595.0	608.0	604.9	541.4	599.6	583.5
70°	5761.5	1737.5	370.9	464.2	512.4	523.8	572.8	580.4	521.5	572.8	537.6
72.5°	4025.6	1058.4	328.1	360.2	414.5	446.6	524.6	546.8	494.8	500.1	466.5
75°	1945.5	562.1	297.5	279.1	322.0	373.2	466.5	500.9	452.7	418.3	406.1
77.5°	606.4	343.4	252.4	224.8	252.4	301.3	390.0	439.0	403.0	350.2	345.7
80°	325.8	252.4	194.2	180.5	199.6	236.3	306.7	366.3	346.4	314.3	280.7
82.5°	214.9	163.7	143.8	139.9	152.2	180.5	227.9	303.6	303.6	269.2	195.8
85°	110.9	100.2	98.7	98.7	106.3	120.1	155.2	234.0	249.3	142.2	117.8
87.5°	55.1	57.4	53.5	55.8	59.6	58.9	74.2	117.8	140.7	86.4	71.9
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)