

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: P269189

Luminaire Tested: **GLEON-AF-03-LED-E1-T3R-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269189
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-03-LED-E1-T3R-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16142.4 lumens
Efficiency: N/A
Efficacy: 97.2 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

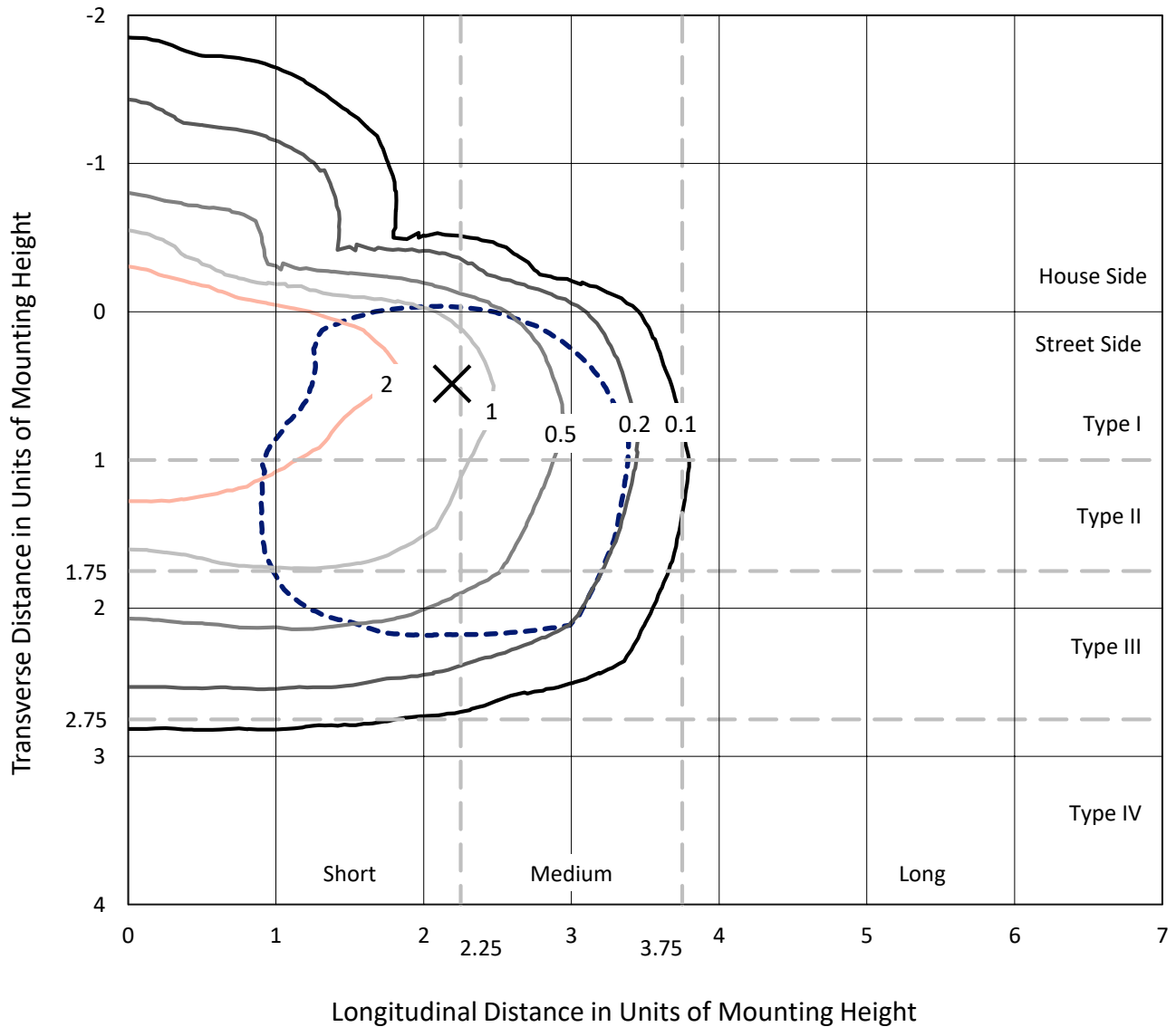
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

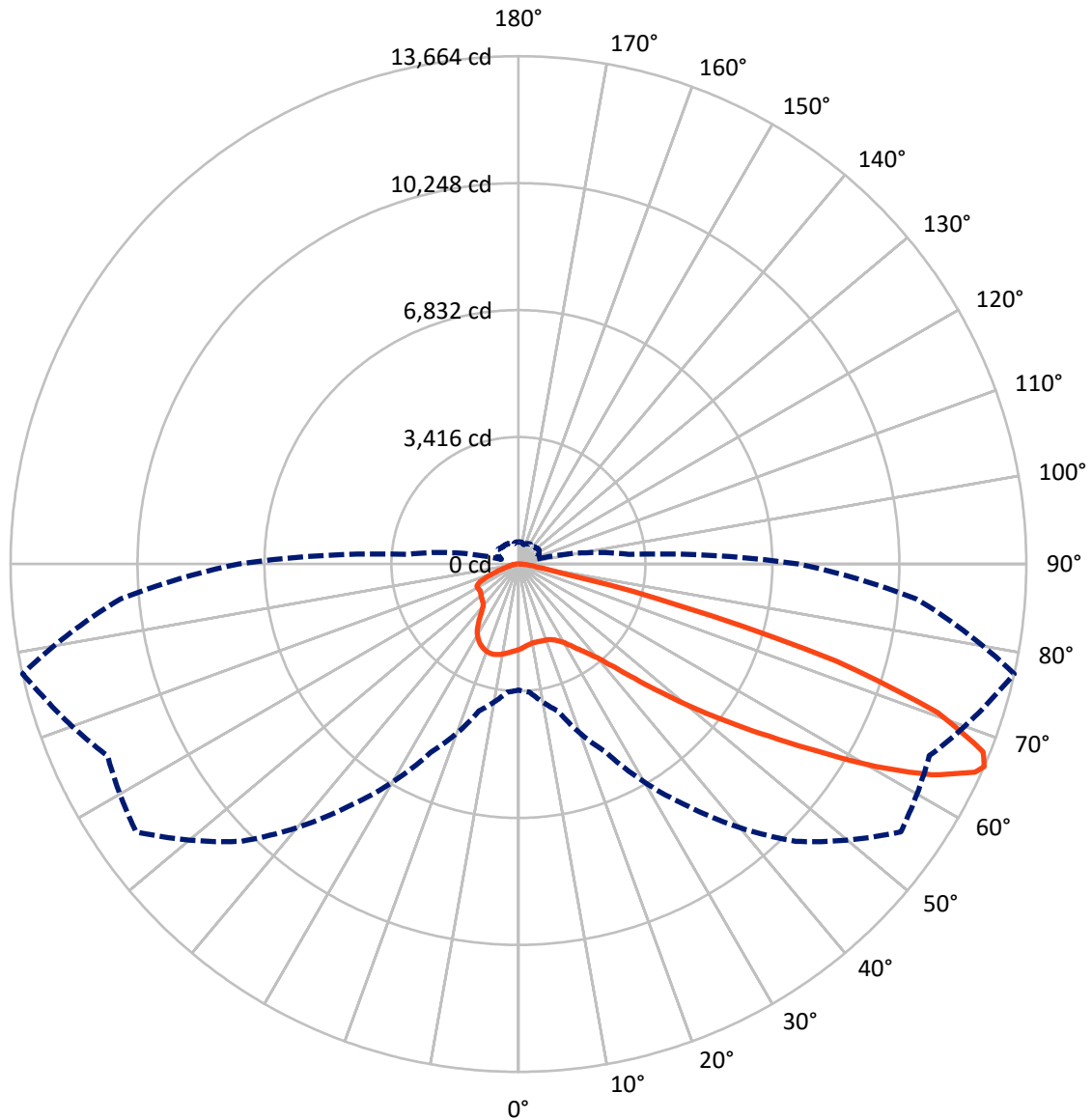
× Max cd
 - - - 1/2 Max cd



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	2757.8	0.0	2757.8
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	13384.6	0.0	13384.6
	% Fixture	82.9	0.0	82.9
Total	Lumens	16142.4	0.0	16142.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.5	1.3
10°-20°	579.8	3.6
20°-30°	989.5	6.1
30°-40°	1584.0	9.8
40°-50°	2447.2	15.2
50°-60°	3471.0	21.5
60°-70°	4643.2	28.8
70°-80°	2016.5	12.5
80°-90°	205.6	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°	16142.4	100.0
0°-180°	16142.4	100.0



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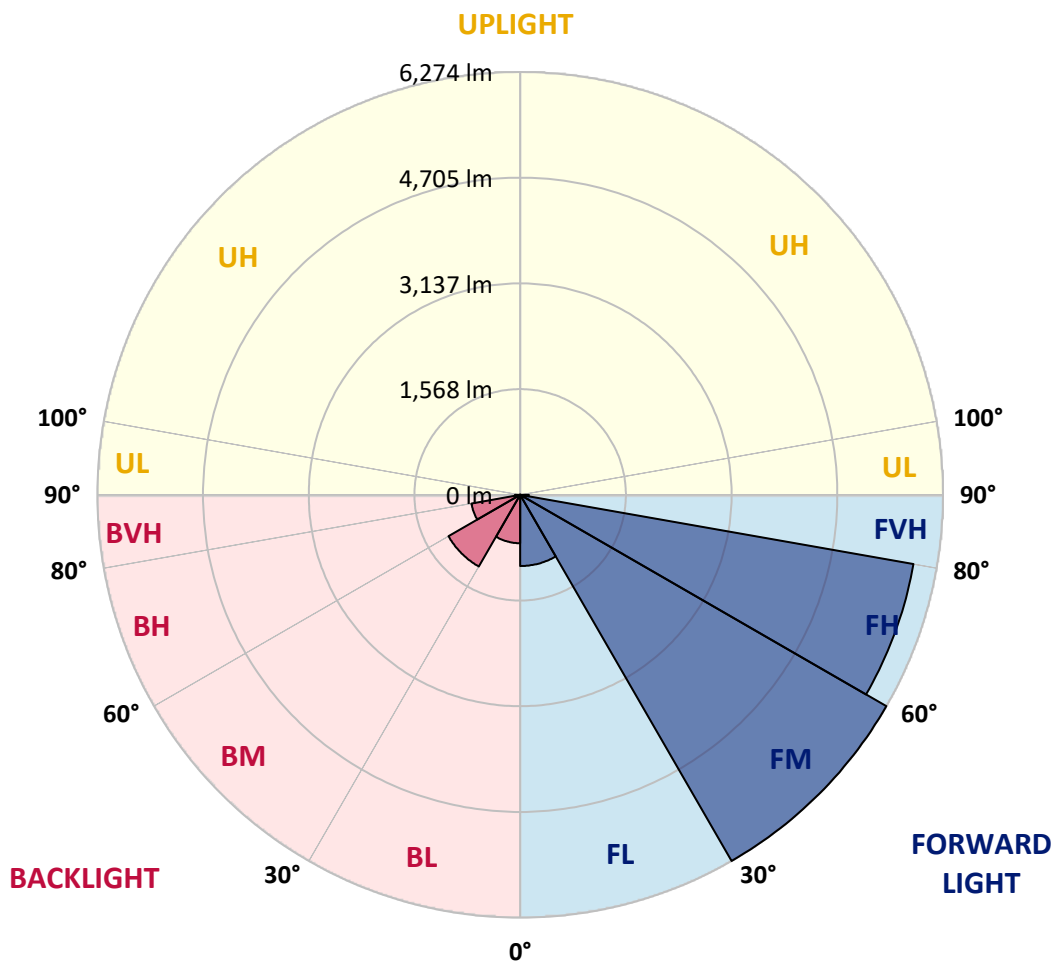
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1056.6	6.5			
FM	(30°-60°)	6273.8	38.9			
FH	(60°-80°)	5925.3	36.7			G3/7500
FVH	(80°-90°)	129.0	0.8			G2/225
BL	(0°-30°)	718.3	4.4	B2/1000		
BM	(30°-60°)	1228.5	7.6	B2/2500		
BH	(60°-80°)	734.5	4.5	B2/1000		G2/1000
BVH	(80°-90°)	76.7	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°	2300.4	2300.4	2300.4	2300.4	2300.4	2300.4	2300.4	2300.4	2300.4	2300.4	2300.4
2.5°	2034.9	2048.7	2060.2	2070.9	2092.2	2127.2	2167.7	2200.5	2247.7	2256.9	2282.1
5°	1848.1	1848.1	1857.2	1873.2	1902.3	1954.8	2009.8	2083.0	2185.9	2210.4	2277.6
7.5°	1757.4	1758.1	1763.5	1777.1	1802.3	1850.4	1910.7	1996.8	2136.3	2176.9	2291.2
10°	1791.0	1783.2	1771.7	1764.9	1768.8	1797.0	1854.2	1950.3	2105.8	2157.8	2321.7
12.5°	1978.4	1964.1	1924.3	1871.7	1821.4	1800.8	1834.3	1928.1	2093.0	2153.1	2362.2
15°	2285.1	2279.0	2205.0	2095.9	1973.9	1871.7	1848.8	1919.8	2094.5	2158.4	2410.2
17.5°	2669.6	2661.1	2563.6	2404.9	2205.8	2006.8	1899.9	1926.7	2099.8	2167.7	2456.8
20°	3057.7	3031.8	2926.6	2737.4	2481.8	2190.5	1984.6	1944.2	2106.6	2177.6	2505.6
22.5°	3347.7	3326.2	3231.7	3047.8	2753.5	2403.3	2098.3	1974.7	2128.8	2206.5	2565.7
25°	3602.4	3603.9	3510.0	3332.4	3027.9	2629.1	2244.7	2056.3	2185.1	2266.1	2648.2
27.5°	3917.4	3899.1	3811.2	3635.1	3299.6	2857.1	2421.7	2168.4	2269.1	2350.8	2756.4
30°	4294.2	4281.1	4179.8	3979.9	3600.9	3101.9	2623.8	2298.9	2377.5	2462.1	2898.3
32.5°	4737.3	4731.2	4625.9	4368.8	3948.6	3390.4	2861.0	2471.1	2539.1	2626.9	3101.9
35°	5257.4	5258.1	5134.0	4824.9	4329.2	3725.9	3130.2	2693.2	2735.9	2827.4	3344.5
37.5°	5577.8	5616.7	5570.2	5255.2	4760.2	4101.1	3479.6	2987.7	2960.2	3052.4	3604.5
40°	5646.4	5693.7	5840.9	5680.7	5242.1	4514.5	3789.2	3270.5	3236.2	3349.2	3939.4
42.5°	5550.4	5615.9	5927.1	6040.1	5754.0	5024.0	4205.7	3690.9	3647.4	3799.1	4355.9
45°	5493.1	5542.0	5902.0	6227.0	6197.9	5599.9	4735.8	4218.6	4202.6	4401.6	4836.5
47.5°	5394.0	5438.2	5784.5	6270.3	6458.8	6127.7	5372.7	4864.0	4895.1	5156.0	5378.7
50°	5447.3	5465.6	5653.4	6159.8	6534.2	6514.4	6084.2	5611.4	5718.2	6043.8	5992.8
52.5°	5439.7	5487.0	5638.0	5978.2	6544.2	6753.2	6785.2	6445.0	6670.1	7043.7	6673.8
55°	4397.8	4484.8	5458.8	5932.4	6579.2	6987.2	7409.1	7323.6	7743.2	8178.7	7442.6
57.5°	4199.5	4254.5	4794.4	6028.5	6765.3	7434.3	8103.3	8290.7	8992.6	9498.1	8379.3
60°	4160.7	4228.5	4787.5	6146.1	7143.0	8162.7	9132.1	9461.6	10512.7	11066.3	9465.4
62.5°	4039.4	4112.6	4742.6	6130.8	7679.2	9170.2	10449.4	10706.3	11954.1	12492.5	10373.7
65°	3654.9	3723.7	4375.7	5884.3	8040.5	10245.7	12008.4	11847.3	13092.2	13497.2	10826.8
66°	3391.8	3459.0	4086.7	5594.6	7956.7	10550.8	12560.6	12200.5	13346.8	13664.2	10738.3
67.5°	2910.6	2963.1	3525.3	4945.4	7510.5	10636.2	13025.1	12466.0	13373.5	13485.7	10232.8
70°	1838.9	1854.2	2291.2	3414.0	5685.4	9224.3	12318.0	11807.0	12270.7	11967.1	8578.4
72.5°	797.9	792.5	1099.9	1736.8	3218.6	6189.5	9964.2	9742.3	9625.6	8933.0	6004.9
75°	443.9	450.1	571.3	806.1	1308.1	3040.3	6518.2	6237.6	5266.7	4494.0	2722.9
77.5°	356.2	364.6	473.6	572.0	587.3	1060.2	3050.1	2481.8	1494.2	1199.0	756.6
80°	281.4	296.7	413.4	445.4	395.9	437.0	985.4	788.0	591.2	542.2	392.0
82.5°	222.7	233.4	354.7	337.1	276.9	294.5	472.1	459.9	384.5	350.1	226.6
85°	160.2	180.0	291.4	254.0	181.5	198.3	313.5	300.6	220.4	180.0	99.9
87.5°	65.5	85.3	205.9	168.5	101.5	92.3	156.3	147.2	104.6	76.3	49.5
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°	2300.4	2300.4	2300.4	2300.4	2300.4	2300.4	2300.4	2300.4	2300.4	2300.4	2300.4
2.5°	2298.0	2316.4	2340.1	2354.5	2362.2	2367.6	2375.8	2375.1	2377.5	2378.2	2381.1
5°	2313.3	2343.9	2378.2	2387.3	2387.3	2378.9	2370.5	2356.9	2351.5	2350.0	2351.5
7.5°	2353.0	2386.5	2416.4	2405.7	2382.8	2349.2	2305.7	2267.6	2247.0	2240.2	2238.5
10°	2403.3	2443.7	2456.0	2415.5	2348.3	2267.6	2181.4	2118.8	2083.0	2073.1	2070.1
12.5°	2464.4	2502.5	2485.7	2400.4	2275.9	2145.5	2026.5	1926.7	1851.9	1828.2	1826.8
15°	2531.5	2561.2	2502.5	2353.0	2167.7	1975.5	1763.5	1591.1	1498.1	1468.2	1465.9
17.5°	2594.0	2609.2	2492.5	2270.6	2008.3	1697.1	1415.5	1282.9	1250.9	1258.4	1260.1
20°	2647.5	2647.5	2459.0	2152.3	1757.4	1330.2	1152.4	1150.2	1173.0	1196.0	1200.6
22.5°	2706.1	2671.1	2400.4	1985.3	1401.8	1088.3	1062.4	1083.8	1109.8	1134.9	1138.7
25°	2778.5	2690.2	2318.6	1732.1	1102.1	988.5	998.3	1016.0	1028.9	1044.9	1047.2
27.5°	2859.5	2714.5	2211.2	1383.6	956.4	926.0	933.6	939.6	938.2	944.3	945.7
30°	2956.3	2742.7	2063.9	1081.5	896.1	872.6	858.8	853.5	853.5	863.5	867.3
32.5°	3085.9	2784.7	1852.7	926.7	867.3	834.4	790.1	770.3	778.0	811.4	819.2
35°	3228.6	2829.8	1566.6	874.1	861.1	816.9	748.2	711.5	712.4	743.6	753.6
37.5°	3384.3	2887.0	1253.1	864.2	874.8	817.6	726.1	675.7	655.1	655.1	658.9
40°	3583.2	2945.6	1014.5	871.0	903.9	826.8	714.7	647.6	589.6	591.2	594.1
42.5°	3842.6	2995.9	886.3	885.5	938.9	838.9	714.0	610.2	559.9	594.1	625.4
45°	4130.9	3021.1	829.9	898.5	967.1	846.7	701.7	604.1	563.6	665.9	725.3
47.5°	4462.7	3006.6	798.6	903.1	974.0	846.7	688.0	618.6	590.4	771.1	840.5
50°	4826.6	2964.6	768.1	894.0	971.6	845.0	700.9	633.0	600.2	789.4	837.5
52.5°	5254.4	2929.6	736.0	874.1	955.6	836.7	716.2	626.9	568.9	717.7	751.3
55°	5742.5	2939.6	700.1	845.8	930.6	820.7	710.9	602.6	536.2	632.2	652.9
57.5°	6366.5	3057.7	657.5	810.0	896.1	794.0	691.8	591.2	526.2	573.6	585.8
60°	7062.8	3263.7	604.1	774.2	853.5	751.3	677.3	596.5	530.9	568.9	575.0
62.5°	7573.8	3383.5	558.2	721.5	795.4	704.0	658.9	603.3	543.0	584.9	583.4
65°	7712.7	3186.6	501.2	644.5	716.9	654.4	636.1	610.9	548.3	598.0	591.2
66°	7518.2	2974.6	475.9	608.6	677.3	630.0	624.7	610.2	546.1	599.4	588.1
67.5°	7046.0	2539.9	432.4	556.1	614.0	593.4	606.4	603.3	540.1	598.0	581.9
70°	5746.4	1732.9	369.9	462.9	511.0	522.5	571.3	578.9	520.2	571.3	536.2
72.5°	4015.0	1055.6	327.3	359.2	413.4	445.4	523.3	545.4	493.4	498.7	465.2
75°	1940.3	560.6	296.7	278.4	321.1	372.2	465.2	499.5	451.6	417.3	405.0
77.5°	604.9	342.4	251.6	224.2	251.6	300.6	389.0	437.8	401.9	349.4	344.8
80°	324.9	251.6	193.8	180.0	199.1	235.6	305.9	365.3	345.5	313.5	279.9
82.5°	214.3	163.2	143.4	139.5	151.8	180.0	227.4	302.8	302.8	268.5	195.2
85°	110.6	99.9	98.4	98.4	106.0	119.7	154.9	233.4	248.7	141.8	117.5
87.5°	54.9	57.2	53.4	55.7	59.5	58.7	74.0	117.5	140.3	86.1	71.7
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)