

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: P191481

Luminaire Tested: **GLEON-AF-03-LED-E1-T3R-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191481
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-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 15355.5 lumens
Efficiency: N/A
Efficacy: 123.8 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): 124
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

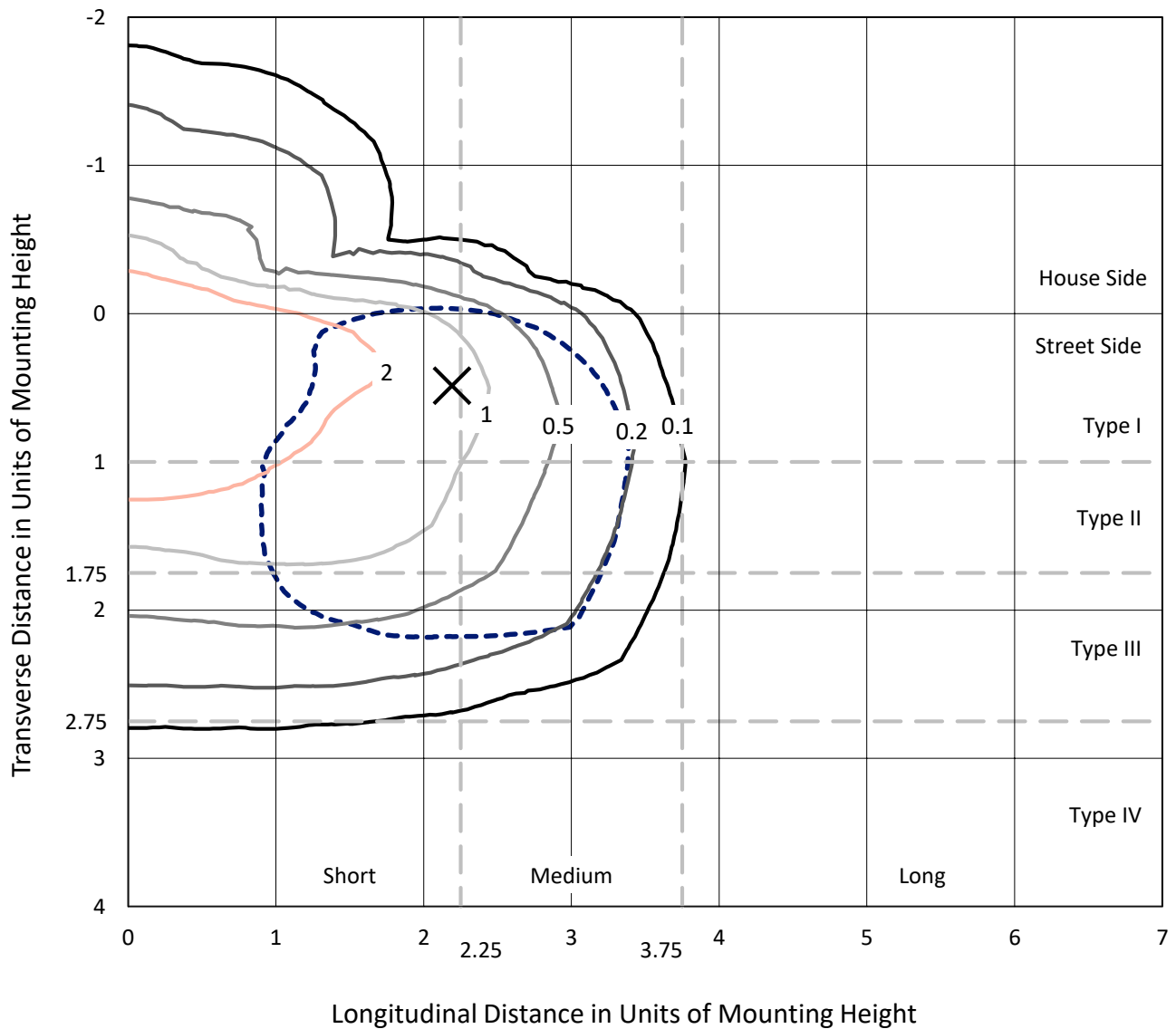


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

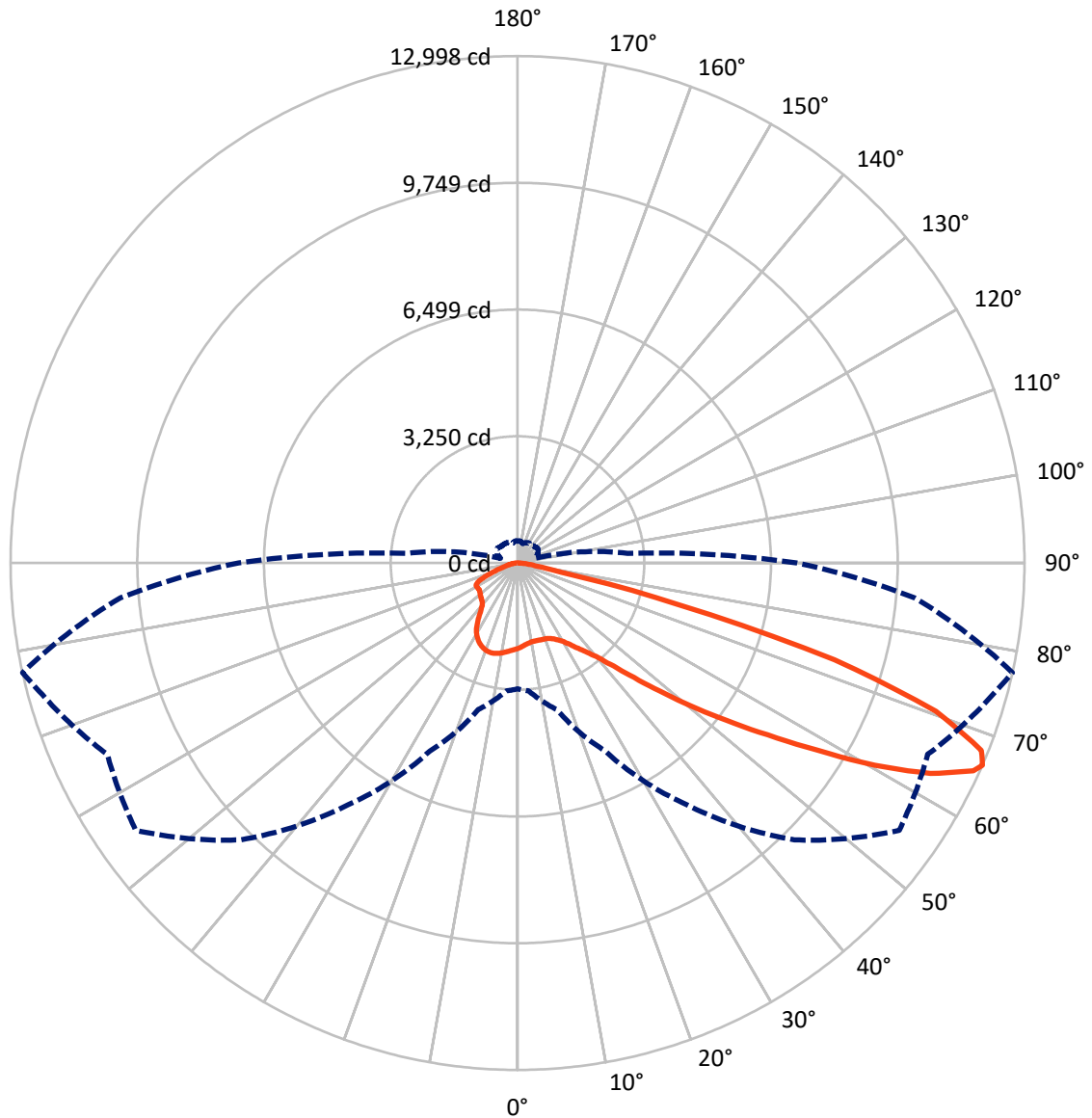


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - Full Cutoff

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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	2623.4	0.0	2623.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	12732.1	0.0	12732.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	15355.5	0.0	15355.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.5	1.3
10°-20°	551.5	3.6
20°-30°	941.3	6.1
30°-40°	1506.8	9.8
40°-50°	2327.9	15.2
50°-60°	3301.8	21.5
60°-70°	4416.9	28.8
70°-80°	1918.2	12.5
80°-90°	195.6	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°	15355.5	100.0
0°-180°	15355.5	100.0



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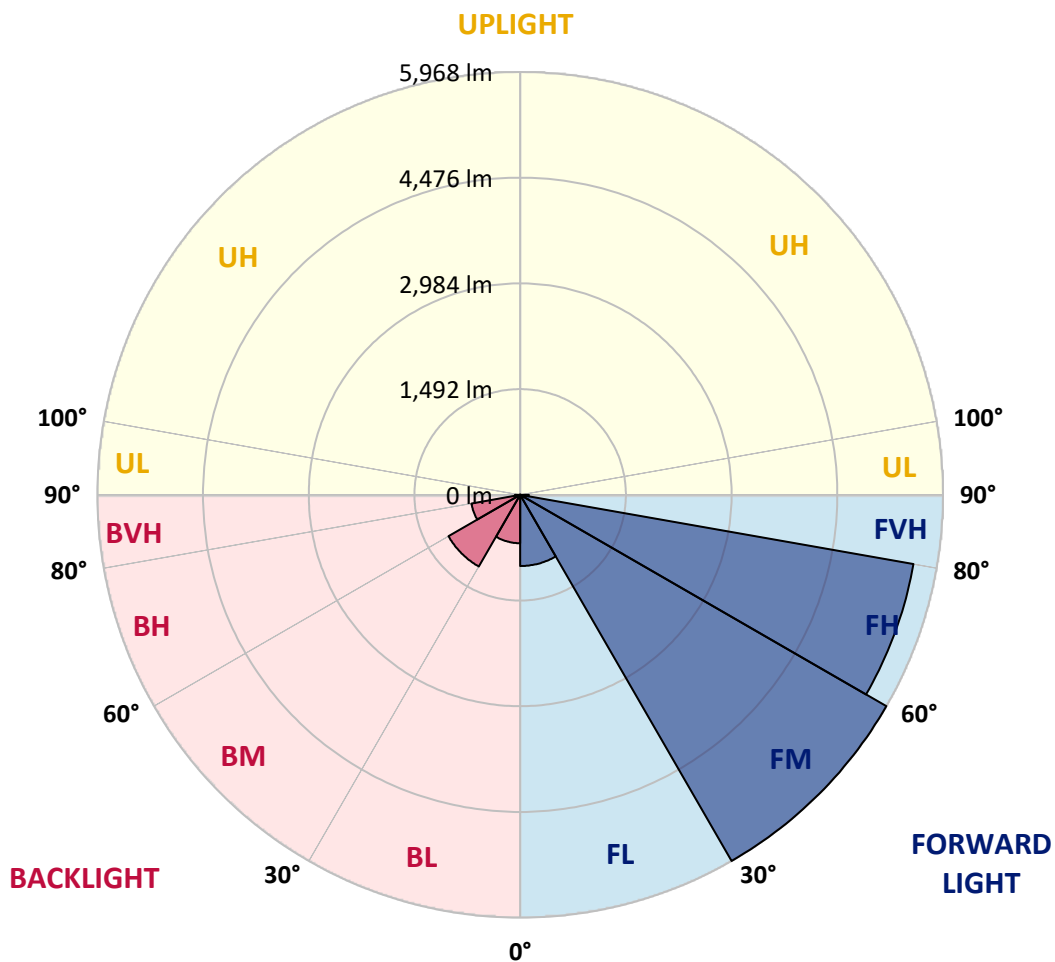
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1005.1	6.5			
FM	(30°-60°)	5968.0	38.9			
FH	(60°-80°)	5636.4	36.7			G3/7500
FVH	(80°-90°)	122.7	0.8			G2/225
BL	(0°-30°)	683.2	4.4	B2/1000		
BM	(30°-60°)	1168.6	7.6	B2/2500		
BH	(60°-80°)	698.7	4.5	B2/1000		G2/1000
BVH	(80°-90°)	72.9	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°	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2
2.5°	1935.7	1948.8	1959.7	1969.9	1990.2	2023.5	2062.0	2093.2	2138.2	2146.9	2170.8
5°	1757.9	1757.9	1766.7	1782.0	1809.5	1859.5	1911.8	1981.5	2079.4	2102.6	2166.5
7.5°	1671.6	1672.4	1677.4	1690.5	1714.5	1760.2	1817.5	1899.5	2032.2	2070.7	2179.5
10°	1703.6	1696.4	1685.4	1678.9	1682.5	1709.4	1763.8	1855.2	2003.2	2052.6	2208.6
12.5°	1882.0	1868.3	1830.6	1780.4	1732.6	1713.0	1744.9	1834.2	1990.9	2048.3	2247.0
15°	2173.8	2167.9	2097.6	1993.8	1877.7	1780.4	1758.8	1826.2	1992.3	2053.3	2292.7
17.5°	2539.4	2531.4	2438.5	2287.6	2098.3	1908.9	1807.3	1832.7	1997.4	2062.0	2336.9
20°	2908.7	2884.0	2783.9	2603.9	2360.9	2083.8	1887.9	1849.4	2004.0	2071.4	2383.4
22.5°	3184.4	3164.1	3074.1	2899.2	2619.2	2286.2	1996.0	1878.4	2025.0	2099.0	2440.8
25°	3426.8	3428.2	3338.9	3169.9	2880.4	2500.9	2135.3	1956.1	2078.6	2155.6	2519.1
27.5°	3726.4	3709.0	3625.5	3458.0	3138.7	2717.9	2303.6	2062.7	2158.5	2236.2	2622.1
30°	4084.8	4072.5	3976.0	3785.8	3425.2	2950.8	2495.9	2186.8	2261.5	2342.0	2757.1
32.5°	4506.3	4500.6	4400.4	4155.9	3756.2	3225.1	2721.5	2350.7	2415.3	2498.8	2950.8
35°	5001.2	5001.9	4883.7	4589.8	4118.2	3544.3	2977.6	2561.9	2602.5	2689.5	3181.5
37.5°	5305.8	5342.9	5298.7	4999.0	4528.1	3901.2	3310.0	2842.0	2815.9	2903.6	3428.9
40°	5371.2	5416.2	5556.2	5403.8	4986.7	4294.4	3604.5	3111.1	3078.5	3185.9	3747.4
42.5°	5279.8	5342.2	5638.2	5745.6	5473.5	4779.1	4000.7	3510.9	3469.5	3613.9	4143.6
45°	5225.3	5271.8	5614.3	5923.3	5895.8	5326.9	4504.9	4012.9	3997.7	4187.1	4600.6
47.5°	5131.0	5173.1	5502.6	5964.7	6143.8	5829.0	5110.8	4626.8	4656.6	4904.6	5116.5
50°	5181.9	5199.2	5377.8	5859.5	6215.8	6196.8	5787.7	5337.9	5439.3	5749.2	5700.6
52.5°	5174.6	5219.5	5363.2	5686.8	6225.2	6423.9	6454.4	6130.9	6344.9	6700.3	6348.5
55°	4183.5	4266.2	5192.7	5643.3	6258.5	6646.7	7047.9	6966.6	7365.7	7780.0	7079.8
57.5°	3994.8	4047.1	4560.7	5734.7	6435.6	7071.9	7708.1	7886.6	8554.1	9035.2	7970.8
60°	3957.8	4022.4	4554.2	5846.4	6794.7	7764.7	8686.9	9000.3	10000.2	10526.9	9004.0
62.5°	3842.5	3912.1	4511.4	5831.9	7304.8	8723.2	9939.9	10184.4	11371.4	11883.6	9868.1
65°	3476.8	3542.1	4162.4	5597.6	7648.7	9746.2	11422.9	11269.8	12453.9	12839.2	10299.1
66°	3226.5	3290.3	3887.4	5321.8	7568.8	10036.4	11948.3	11605.8	12696.3	12998.1	10214.9
67.5°	2768.6	2818.7	3353.4	4704.4	7144.4	10117.7	12390.1	11858.3	12721.6	12828.3	9733.9
70°	1749.2	1763.8	2179.5	3247.6	5408.2	8774.7	11717.5	11231.4	11672.5	11383.7	8160.2
72.5°	758.9	753.8	1046.3	1652.1	3061.8	5887.8	9478.5	9267.3	9156.3	8497.6	5712.2
75°	422.3	428.1	543.4	766.9	1244.3	2892.0	6200.5	5933.5	5009.9	4274.9	2590.2
77.5°	338.8	346.8	450.6	544.1	558.6	1008.5	2901.4	2360.9	1421.3	1140.6	719.7
80°	267.7	282.2	393.2	423.7	376.5	415.7	937.4	749.5	562.3	515.9	373.0
82.5°	211.9	222.0	337.4	320.7	263.4	280.1	449.1	437.5	365.7	333.1	215.5
85°	152.3	171.2	277.1	241.6	172.7	188.6	298.2	285.8	209.7	171.2	95.0
87.5°	62.4	81.2	195.9	160.3	96.5	87.8	148.7	140.0	99.4	72.5	47.2
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°	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2	2188.2
2.5°	2186.0	2203.4	2225.9	2239.8	2247.0	2252.1	2260.1	2259.3	2261.5	2262.3	2265.1
5°	2200.6	2229.6	2262.3	2271.0	2271.0	2263.0	2255.0	2241.9	2236.9	2235.4	2236.9
7.5°	2238.3	2270.2	2298.5	2288.3	2266.6	2234.6	2193.3	2157.0	2137.5	2130.9	2129.5
10°	2286.2	2324.7	2336.2	2297.8	2233.9	2157.0	2075.1	2015.5	1981.5	1972.0	1969.1
12.5°	2344.2	2380.5	2364.6	2283.3	2165.0	2041.0	1927.8	1832.7	1761.6	1739.1	1737.7
15°	2408.0	2436.4	2380.5	2238.3	2062.0	1879.2	1677.4	1513.5	1425.0	1396.6	1394.5
17.5°	2467.6	2482.1	2371.1	2160.0	1910.4	1614.3	1346.6	1220.4	1189.9	1197.2	1198.6
20°	2518.4	2518.4	2339.2	2047.4	1671.6	1265.4	1096.3	1094.1	1115.8	1137.6	1142.0
22.5°	2574.3	2540.8	2283.3	1888.6	1333.5	1035.3	1010.7	1031.0	1055.7	1079.6	1083.2
25°	2643.1	2559.0	2205.7	1647.7	1048.4	940.3	949.7	966.4	978.8	994.0	996.1
27.5°	2720.0	2582.2	2103.4	1316.1	909.8	880.8	888.0	893.9	892.4	898.3	899.7
30°	2812.2	2609.0	1963.3	1028.8	852.5	830.0	816.9	811.9	811.9	821.3	824.9
32.5°	2935.6	2648.9	1762.3	881.6	824.9	793.7	751.7	732.8	740.0	772.0	779.2
35°	3071.2	2691.8	1490.2	831.5	819.2	777.0	711.8	676.9	677.7	707.4	716.9
37.5°	3219.2	2746.2	1192.0	822.0	832.2	777.7	690.7	642.8	623.3	623.3	626.9
40°	3408.6	2802.1	964.9	828.6	859.8	786.4	679.9	616.0	560.9	562.3	565.2
42.5°	3655.3	2849.9	843.1	842.4	893.1	798.1	679.1	580.4	532.5	565.2	594.9
45°	3929.6	2873.9	789.4	854.7	919.9	805.4	667.5	574.6	536.1	633.4	690.0
47.5°	4245.1	2860.1	759.6	859.1	926.5	805.4	654.5	588.4	561.6	733.6	799.5
50°	4591.2	2820.2	730.6	850.4	924.3	803.9	666.8	602.2	571.0	750.9	796.7
52.5°	4998.2	2786.8	700.1	831.5	909.1	796.0	681.3	596.4	541.2	682.7	714.6
55°	5462.6	2796.2	666.0	804.7	885.2	780.7	676.2	573.2	510.0	601.5	621.0
57.5°	6056.1	2908.7	625.4	770.5	852.5	755.2	658.1	562.3	500.6	545.6	557.2
60°	6718.5	3104.6	574.6	736.4	811.9	714.6	644.3	567.3	504.9	541.2	547.1
62.5°	7204.6	3218.5	531.1	686.4	756.8	669.7	626.9	573.9	516.6	556.5	555.1
65°	7336.7	3031.3	476.7	613.1	682.0	622.5	605.1	581.1	521.7	568.9	562.3
66°	7151.7	2829.6	452.8	579.0	644.3	599.3	594.2	580.4	519.5	570.3	559.3
67.5°	6702.6	2416.0	411.4	529.0	584.1	564.5	576.8	573.9	513.7	568.9	553.6
70°	5466.2	1648.4	351.9	440.4	486.1	496.9	543.4	550.7	494.8	543.4	510.0
72.5°	3819.3	1004.1	311.3	341.8	393.2	423.7	497.8	518.7	469.4	474.5	442.6
75°	1845.8	533.3	282.2	264.8	305.5	354.0	442.6	475.3	429.5	396.9	385.2
77.5°	575.3	325.8	239.5	213.3	239.5	285.8	370.0	416.4	382.4	332.3	328.0
80°	309.0	239.5	184.3	171.2	189.3	224.2	290.9	347.5	328.7	298.2	266.3
82.5°	203.9	155.3	136.4	132.8	144.3	171.2	216.3	288.1	288.1	255.4	185.8
85°	105.2	95.0	93.6	93.6	100.9	114.0	147.3	222.0	236.5	134.9	111.7
87.5°	52.3	54.4	50.7	53.0	56.6	55.9	70.4	111.7	133.5	81.9	68.2
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)