

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: P269192

Luminaire Tested: **GLEON-AF-03-LED-E1-T3R-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269192
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-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17707.9 lumens
Efficiency: N/A
Efficacy: 92.7 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): 191
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

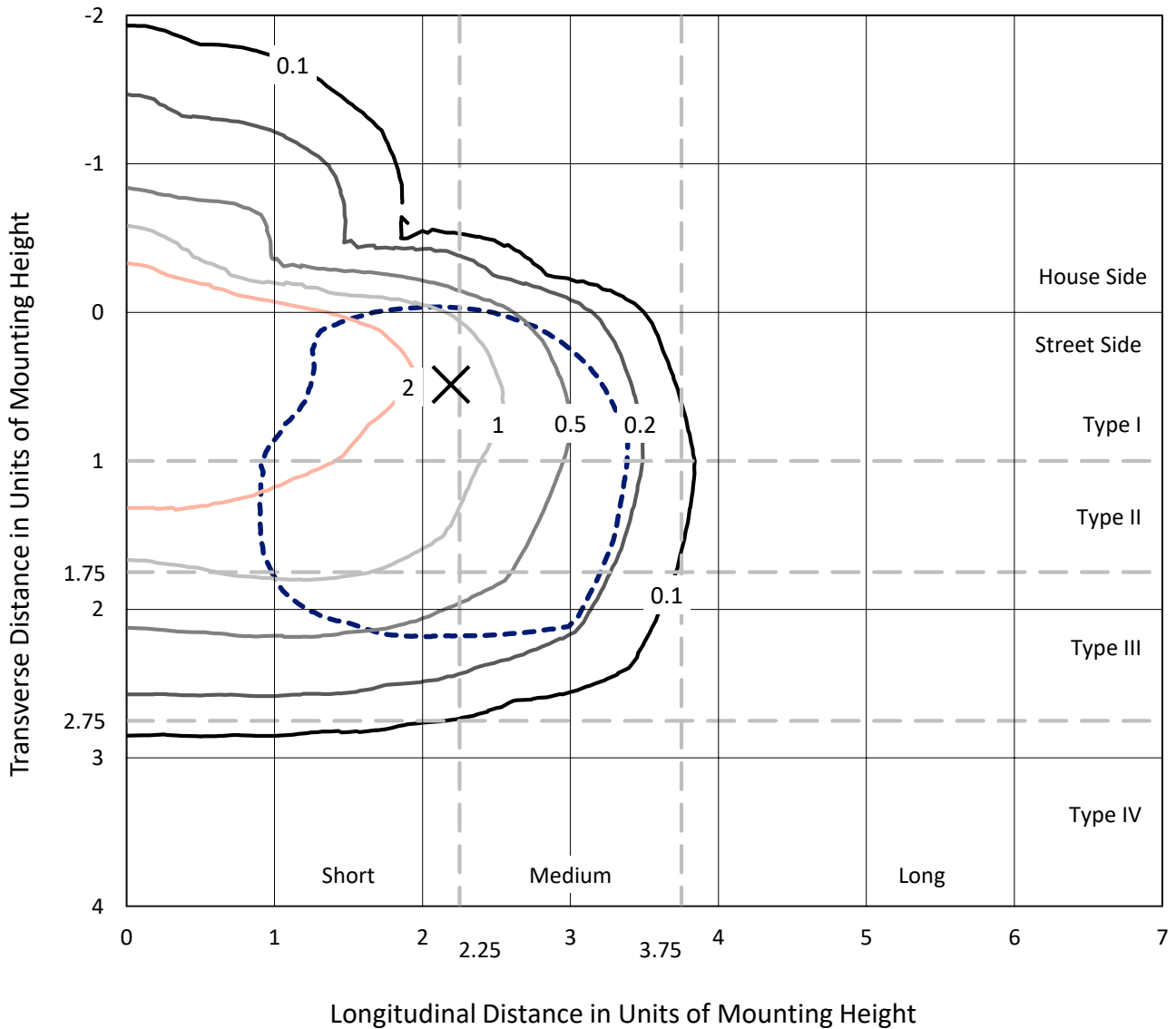


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Iso-Footcandle Lines of Horizontal Illumination

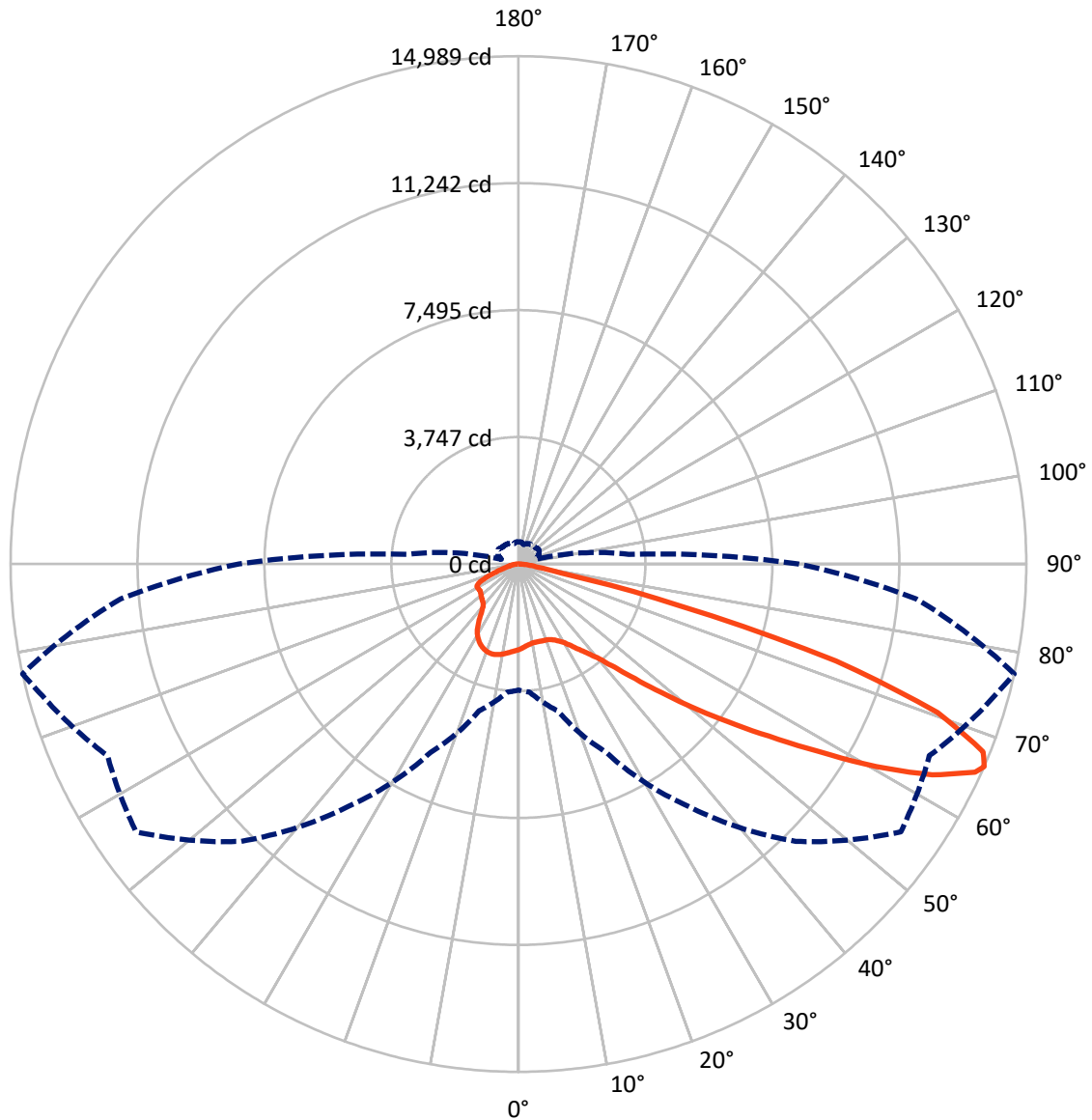
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	3025.3	0.0	3025.3
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	14682.6	0.0	14682.6
	% Fixture	82.9	0.0	82.9
Total	Lumens	17707.9	0.0	17707.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.5	1.3
10°-20°	636.0	3.6
20°-30°	1085.5	6.1
30°-40°	1737.7	9.8
40°-50°	2684.5	15.2
50°-60°	3807.6	21.5
60°-70°	5093.5	28.8
70°-80°	2212.0	12.5
80°-90°	225.6	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°	17707.9	100.0
0°-180°	17707.9	100.0



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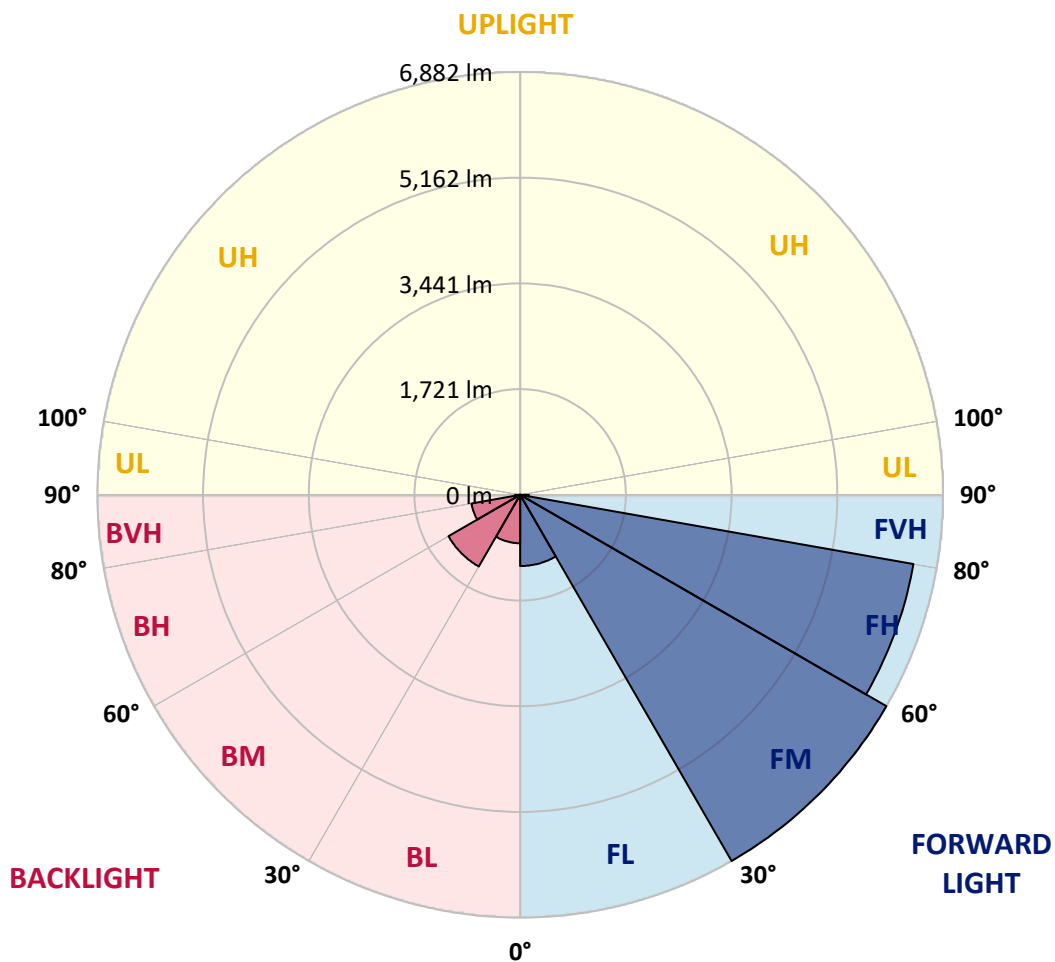
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1159.1	6.5			
FM	(30°-60°)	6882.2	38.9			
FH	(60°-80°)	6499.9	36.7			G3/7500
FVH	(80°-90°)	141.5	0.8			G2/225
BL	(0°-30°)	787.9	4.4	B2/1000		
BM	(30°-60°)	1347.6	7.6	B2/2500		
BH	(60°-80°)	805.7	4.5	B2/1000		G2/1000
BVH	(80°-90°)	84.1	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°	2523.5	2523.5	2523.5	2523.5	2523.5	2523.5	2523.5	2523.5	2523.5	2523.5	2523.5
2.5°	2232.3	2247.4	2259.9	2271.6	2295.0	2333.5	2377.9	2413.8	2465.7	2475.8	2503.3
5°	2027.4	2027.4	2037.4	2055.0	2086.8	2144.4	2204.7	2285.0	2397.9	2424.7	2498.4
7.5°	1927.8	1928.7	1934.4	1949.5	1977.1	2029.8	2095.9	2190.4	2343.6	2388.0	2513.4
10°	1964.6	1956.1	1943.7	1936.0	1940.2	1971.2	2034.0	2139.5	2310.1	2367.0	2546.9
12.5°	2170.3	2154.4	2110.9	2053.3	1998.0	1975.5	2012.3	2115.1	2295.9	2362.0	2591.3
15°	2506.7	2500.1	2418.9	2299.2	2165.4	2053.3	2028.2	2105.9	2297.5	2367.8	2643.9
17.5°	2928.5	2919.2	2812.1	2638.1	2419.8	2201.3	2084.2	2113.5	2303.4	2377.9	2694.9
20°	3354.4	3325.9	3210.5	3002.9	2722.7	2403.0	2177.0	2132.8	2310.9	2388.8	2748.5
22.5°	3672.2	3648.8	3545.0	3343.4	3020.5	2636.4	2301.7	2166.3	2335.2	2420.6	2814.6
25°	3951.6	3953.4	3850.4	3655.6	3321.7	2884.1	2462.3	2255.7	2397.0	2485.8	2904.9
27.5°	4297.2	4277.2	4180.9	3987.7	3619.5	3134.2	2656.5	2378.7	2489.2	2578.7	3023.9
30°	4710.5	4696.3	4585.0	4365.9	3949.9	3402.8	2878.2	2521.8	2608.0	2700.8	3179.5
32.5°	5196.6	5190.0	5074.5	4792.5	4331.5	3719.2	3138.4	2710.8	2785.4	2881.6	3402.8
35°	5767.3	5768.1	5631.7	5293.0	4749.1	4087.3	3433.9	2954.3	3001.1	3101.6	3668.9
37.5°	6118.7	6161.4	6110.4	5764.9	5221.8	4498.9	3817.0	3277.3	3247.3	3348.4	3954.2
40°	6194.1	6245.8	6407.4	6231.6	5750.6	4952.4	4156.6	3587.7	3550.1	3673.9	4321.4
42.5°	6088.6	6160.5	6501.9	6625.8	6312.0	5511.3	4613.5	4048.8	4001.1	4167.5	4778.4
45°	6025.8	6079.4	6474.4	6830.7	6798.9	6143.0	5195.0	4627.8	4610.1	4828.5	5305.5
47.5°	5917.0	5965.6	6345.4	6878.4	7085.1	6721.9	5893.6	5335.6	5369.9	5656.0	5900.3
50°	5975.6	5995.7	6201.5	6757.1	7167.9	7146.1	6674.2	6155.5	6272.7	6629.9	6573.8
52.5°	5967.4	6019.2	6184.8	6557.9	7178.9	7408.1	7443.1	7070.0	7316.9	7726.9	7321.0
55°	4824.3	4919.7	5988.2	6507.9	7217.3	7664.9	8127.7	8033.9	8494.1	8971.8	8164.4
57.5°	4606.8	4667.1	5259.4	6613.2	7421.4	8155.3	8889.0	9094.8	9864.6	10419.4	9191.8
60°	4564.2	4638.6	5251.9	6742.0	7835.6	8954.2	10017.7	10379.1	11532.1	12139.5	10383.2
62.5°	4431.1	4511.5	5202.5	6725.3	8423.8	10059.5	11462.6	11744.6	13113.5	13704.2	11379.8
65°	4009.4	4084.8	4800.2	6455.1	8820.4	11239.2	13172.8	12996.3	14361.8	14806.0	11876.9
66°	3720.8	3794.4	4483.0	6137.1	8728.3	11573.9	13778.7	13383.7	14641.2	14989.3	11779.7
67.5°	3192.8	3250.5	3867.2	5425.1	8238.9	11667.6	14288.3	13674.9	14670.5	14793.5	11225.0
70°	2017.2	2034.0	2513.4	3745.0	6236.8	10119.0	13512.6	12951.9	13460.7	13127.7	9410.3
72.5°	875.2	869.3	1206.6	1905.1	3530.9	6789.7	10930.5	10687.0	10559.0	9799.3	6587.4
75°	486.9	493.7	626.7	884.4	1435.0	3335.0	7150.4	6842.5	5777.4	4929.8	2987.0
77.5°	390.8	399.9	519.6	627.6	644.3	1162.9	3345.9	2722.7	1639.0	1315.3	830.0
80°	308.7	325.5	453.5	488.6	434.2	479.4	1081.0	864.3	648.4	594.9	430.1
82.5°	244.2	256.0	389.1	369.8	303.6	323.0	518.0	504.5	421.7	384.0	248.6
85°	175.7	197.4	319.5	278.7	199.2	217.5	344.0	329.7	241.9	197.4	109.7
87.5°	72.0	93.8	226.0	185.0	111.3	101.1	171.5	161.4	114.7	83.6	54.3
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°	2523.5	2523.5	2523.5	2523.5	2523.5	2523.5	2523.5	2523.5	2523.5	2523.5	2523.5
2.5°	2521.0	2541.0	2566.9	2582.8	2591.3	2597.1	2606.3	2605.4	2608.0	2608.8	2612.1
5°	2537.7	2571.2	2608.8	2618.9	2618.9	2609.7	2600.5	2585.4	2579.6	2577.9	2579.6
7.5°	2581.2	2618.0	2650.5	2639.0	2613.8	2577.0	2529.3	2487.4	2464.9	2457.4	2455.6
10°	2636.4	2680.7	2694.1	2649.8	2576.2	2487.4	2392.9	2324.4	2285.0	2274.1	2270.7
12.5°	2703.4	2745.2	2726.7	2633.0	2496.7	2353.6	2223.0	2113.5	2031.4	2005.6	2003.8
15°	2777.0	2809.5	2745.2	2581.2	2377.9	2167.0	1934.4	1745.3	1643.3	1610.7	1608.1
17.5°	2845.7	2862.3	2734.4	2490.8	2203.1	1861.6	1552.9	1407.4	1372.3	1380.5	1382.2
20°	2904.1	2904.1	2697.5	2361.1	1927.8	1459.1	1264.3	1261.7	1286.8	1312.0	1316.9
22.5°	2968.5	2930.1	2633.0	2177.9	1537.9	1193.9	1165.6	1188.9	1217.5	1245.1	1249.2
25°	3048.0	2951.0	2543.6	1900.2	1208.9	1084.3	1095.3	1114.4	1128.7	1146.2	1148.8
27.5°	3136.7	2977.8	2425.6	1517.7	1049.2	1015.8	1024.1	1030.8	1029.1	1035.8	1037.5
30°	3243.1	3008.8	2264.1	1186.4	983.1	957.1	942.1	936.3	936.3	947.2	951.3
32.5°	3385.3	3054.7	2032.3	1016.6	951.3	915.4	866.9	845.0	853.4	890.2	898.7
35°	3541.7	3104.2	1718.5	958.9	944.6	896.1	820.8	780.6	781.4	815.8	826.6
37.5°	3712.3	3166.9	1374.6	948.0	959.7	897.0	796.5	741.3	718.7	718.7	722.9
40°	3930.8	3231.4	1112.8	955.4	991.5	907.0	784.0	710.4	646.8	648.4	651.8
42.5°	4215.2	3286.4	972.2	971.3	1029.9	920.4	783.1	669.3	614.1	651.8	686.0
45°	4531.5	3314.1	910.3	985.6	1060.9	928.7	769.8	662.7	618.4	730.4	795.7
47.5°	4895.5	3298.2	875.9	990.7	1068.4	928.7	754.7	678.6	647.6	845.9	922.0
50°	5294.6	3252.3	842.5	980.6	1066.0	927.1	768.9	694.5	658.5	866.0	918.6
52.5°	5764.0	3213.7	807.3	958.9	1048.4	917.9	785.7	687.7	624.1	787.4	824.1
55°	6299.5	3224.6	768.1	927.9	1020.7	900.3	779.8	661.1	588.2	693.6	716.2
57.5°	6983.9	3354.4	721.2	888.6	983.1	870.9	758.9	648.4	577.3	629.3	642.6
60°	7747.7	3580.1	662.7	849.3	936.3	824.1	743.0	654.2	582.3	624.1	630.9
62.5°	8308.3	3711.5	612.5	791.4	872.7	772.3	722.9	661.8	595.8	641.7	640.0
65°	8460.5	3495.7	549.8	707.0	786.5	717.8	697.9	670.1	601.5	655.9	648.4
66°	8247.2	3263.2	522.0	667.7	743.0	691.1	685.2	669.3	599.1	657.6	645.2
67.5°	7729.3	2786.2	474.5	609.9	673.5	650.9	665.1	661.8	592.4	655.9	638.3
70°	6303.6	1901.0	405.9	507.9	560.6	573.1	626.7	635.0	570.7	626.7	588.2
72.5°	4404.3	1157.9	359.0	394.0	453.5	488.6	573.9	598.2	541.4	547.2	510.3
75°	2128.5	615.0	325.5	305.5	352.2	408.3	510.3	548.1	495.3	457.6	444.3
77.5°	663.5	375.8	276.0	246.0	276.0	329.7	426.8	480.2	441.0	383.1	378.1
80°	356.4	276.0	212.4	197.4	218.4	258.5	335.4	400.7	379.1	344.0	307.1
82.5°	235.0	179.0	157.4	153.2	166.5	197.4	249.3	332.2	332.2	294.6	214.2
85°	121.4	109.7	107.9	107.9	116.3	131.3	169.9	256.0	272.7	155.6	128.8
87.5°	60.2	62.7	58.6	61.1	65.2	64.4	81.1	128.8	154.0	94.5	78.6
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)