

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: P191491

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191491
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 19006.4 lumens
Efficiency: N/A
Efficacy: 114.5 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

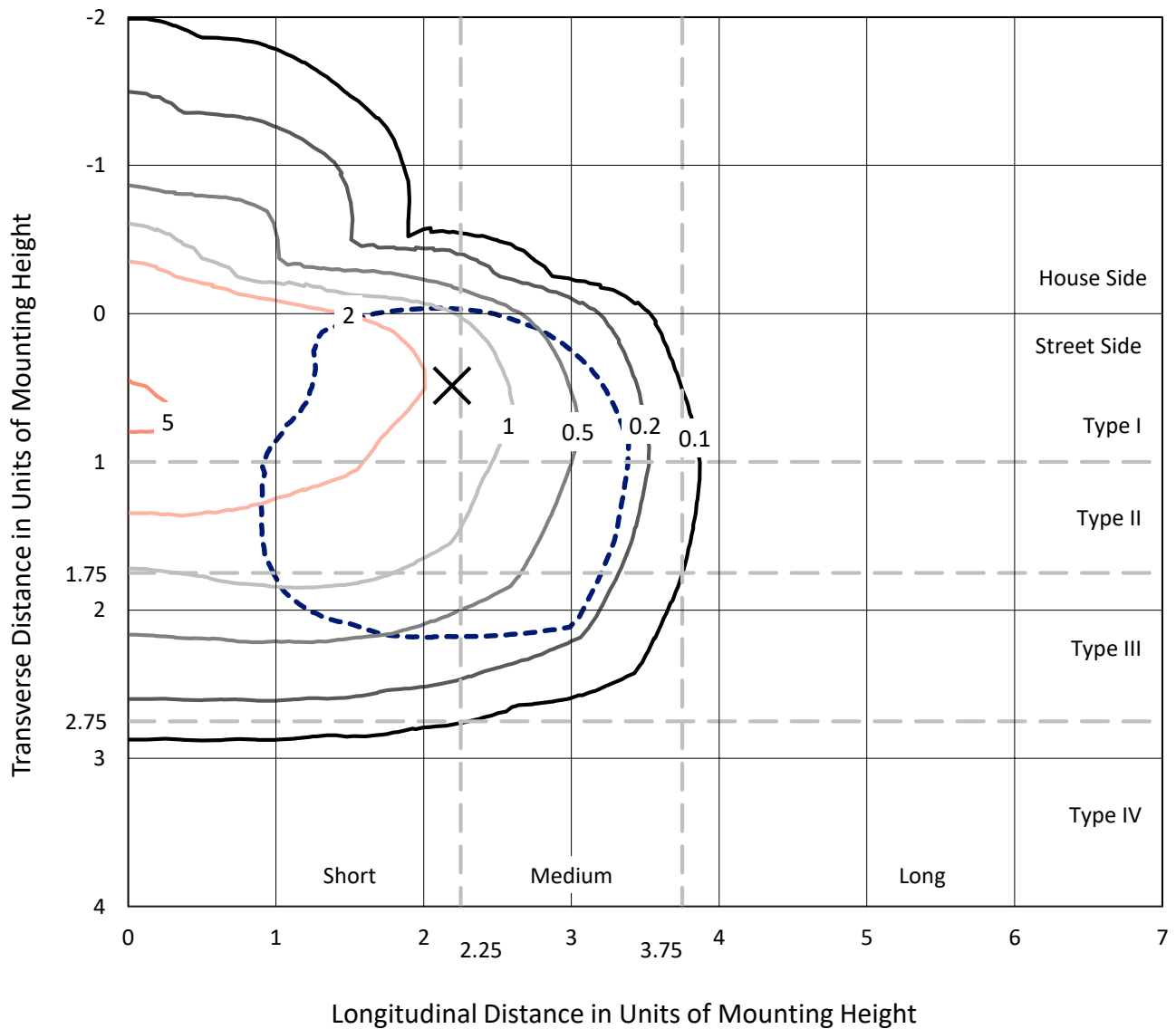


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Iso-Footcandle Lines of Horizontal Illumination

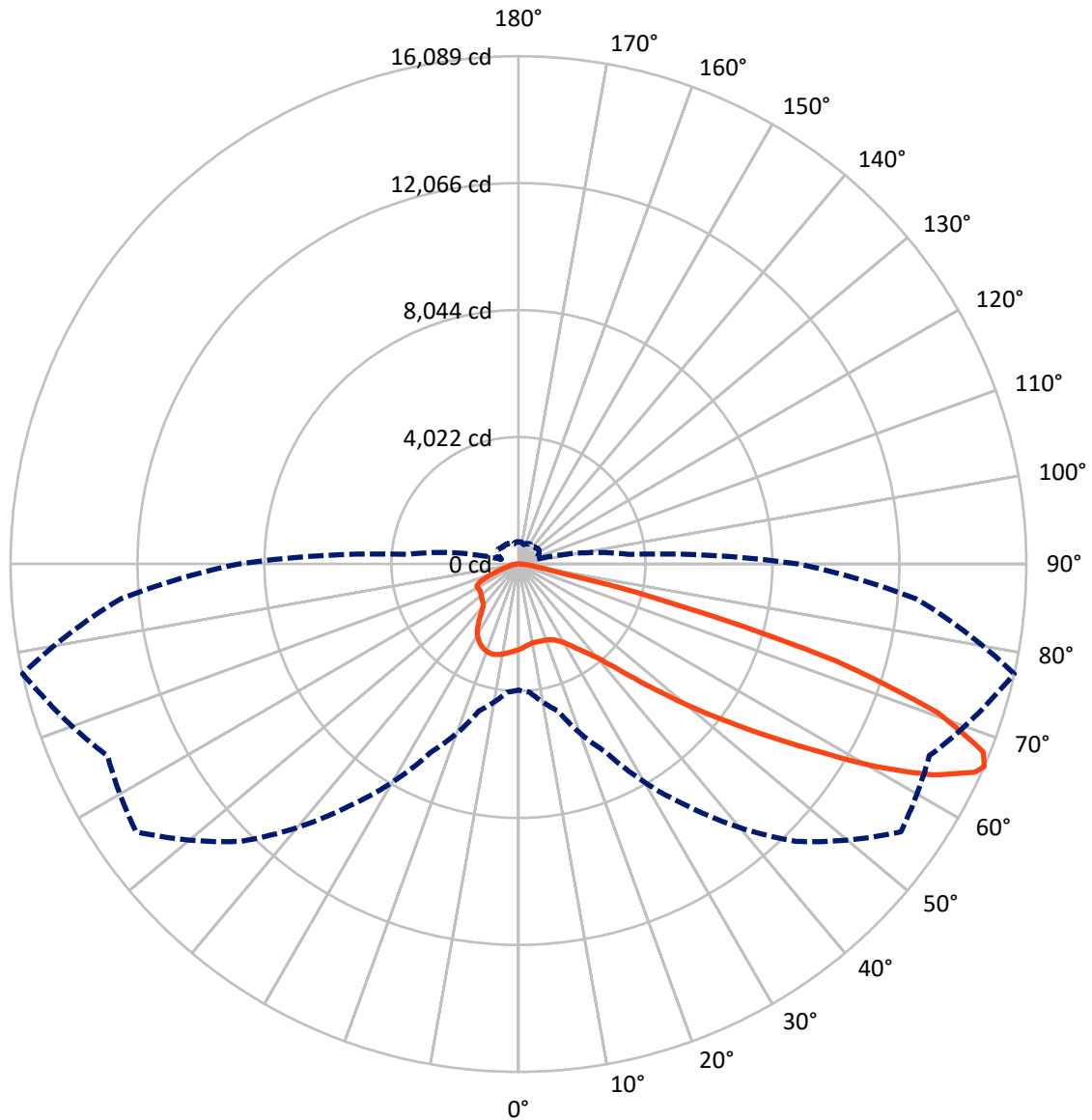
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	3247.1	0.0	3247.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	15759.3	0.0	15759.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	19006.4	0.0	19006.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.0	1.3
10°-20°	682.7	3.6
20°-30°	1165.1	6.1
30°-40°	1865.1	9.8
40°-50°	2881.4	15.2
50°-60°	4086.8	21.5
60°-70°	5467.1	28.8
70°-80°	2374.2	12.5
80°-90°	242.1	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°	19006.4	100.0
0°-180°	19006.4	100.0



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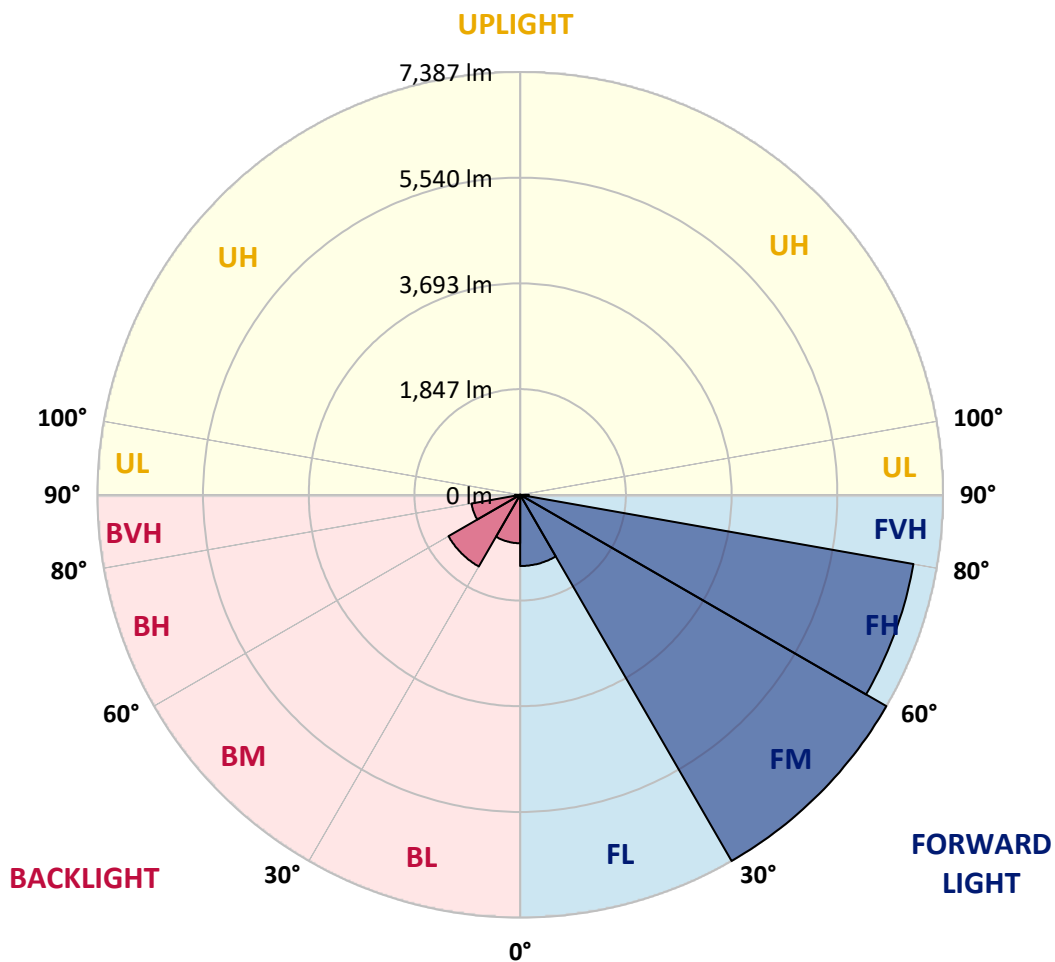
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1244.1	6.5			
FM	(30°-60°)	7386.9	38.9			
FH	(60°-80°)	6976.5	36.7			G3/7500
FVH	(80°-90°)	151.8	0.8			G2/225
BL	(0°-30°)	845.7	4.4	B2/1000		
BM	(30°-60°)	1446.4	7.6	B2/2500		
BH	(60°-80°)	864.8	4.5	B2/1000		G2/1000
BVH	(80°-90°)	90.3	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°	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5
2.5°	2396.0	2412.1	2425.6	2438.2	2463.4	2504.7	2552.3	2590.8	2646.6	2657.3	2687.0
5°	2175.9	2175.9	2186.8	2205.6	2239.8	2301.7	2366.4	2452.5	2573.8	2602.5	2681.6
7.5°	2069.1	2070.0	2076.3	2092.4	2122.1	2178.7	2249.6	2351.0	2515.4	2563.0	2697.7
10°	2108.6	2099.6	2086.2	2078.1	2082.5	2115.8	2183.2	2296.3	2479.5	2540.6	2733.6
12.5°	2329.6	2312.5	2265.7	2203.8	2144.5	2120.3	2159.8	2270.2	2464.3	2535.2	2781.2
15°	2690.6	2683.4	2596.2	2467.9	2324.1	2203.8	2176.8	2260.4	2466.0	2541.4	2837.9
17.5°	3143.1	3133.3	3018.3	2831.5	2597.2	2362.7	2237.0	2268.5	2472.4	2552.3	2892.6
20°	3600.3	3569.7	3445.8	3223.1	2922.3	2579.2	2336.7	2289.2	2480.5	2563.9	2950.1
22.5°	3941.5	3916.4	3805.1	3588.6	3241.9	2829.8	2470.5	2325.1	2506.4	2598.1	3021.0
25°	4241.5	4243.3	4132.8	3923.5	3565.3	3095.6	2643.0	2421.1	2572.9	2668.1	3118.1
27.5°	4612.4	4590.8	4487.6	4280.1	3885.0	3364.1	2851.3	2553.2	2671.6	2767.8	3245.5
30°	5056.0	5040.7	4921.3	4686.0	4239.7	3652.3	3089.3	2706.7	2799.2	2898.9	3412.6
32.5°	5577.7	5570.6	5446.6	5144.0	4649.2	3991.9	3368.6	2909.7	2989.6	3092.9	3652.3
35°	6190.2	6191.1	6044.7	5681.1	5097.3	4386.9	3685.6	3171.0	3221.3	3329.1	3938.0
37.5°	6567.4	6613.2	6558.4	6187.5	5604.7	4828.8	4096.9	3517.6	3485.3	3593.9	4244.1
40°	6648.3	6703.9	6877.2	6688.7	6172.3	5315.6	4461.5	3850.8	3810.4	3943.3	4638.4
42.5°	6535.1	6612.4	6978.7	7111.7	6774.9	5915.4	4951.8	4345.6	4294.4	4473.2	5128.8
45°	6467.7	6525.2	6949.1	7331.7	7297.5	6593.4	5576.0	4967.1	4948.2	5182.6	5694.5
47.5°	6351.0	6403.1	6810.8	7382.8	7604.6	7214.9	6325.8	5726.9	5763.6	6070.8	6333.0
50°	6413.8	6435.4	6656.3	7252.6	7693.5	7670.2	7163.7	6606.9	6732.7	7116.2	7055.9
52.5°	6404.9	6460.5	6638.3	7038.9	7705.3	7951.3	7989.0	7588.5	7853.4	8293.5	7857.9
55°	5178.2	5280.5	6427.3	6985.0	7746.5	8227.0	8723.6	8623.1	9116.9	9629.8	8763.1
57.5°	4944.6	5009.3	5645.2	7098.2	7965.6	8753.3	9540.9	9761.7	10588.0	11183.4	9866.0
60°	4898.8	4978.8	5637.1	7236.5	8410.2	9610.9	10752.3	11140.2	12377.8	13029.7	11144.7
62.5°	4756.0	4842.2	5584.1	7218.5	9041.6	10797.2	12303.2	12605.8	14075.1	14709.1	12214.3
65°	4303.5	4384.3	5152.1	6928.4	9467.2	12063.5	14138.8	13949.4	15414.9	15891.8	12747.8
66°	3993.6	4072.7	4811.8	6587.2	9368.4	12422.7	14789.0	14365.1	15714.9	16088.5	12643.6
67.5°	3427.0	3488.9	4150.7	5822.9	8843.1	12523.3	15336.0	14677.7	15746.4	15878.3	12048.2
70°	2165.2	2183.2	2697.7	4019.7	6694.0	10861.0	14503.4	13901.8	14447.7	14090.3	10100.3
72.5°	939.4	933.0	1295.0	2044.9	3789.7	7287.6	11732.1	11470.8	11333.4	10517.9	7070.3
75°	522.6	529.9	672.6	949.2	1540.2	3579.6	7674.7	7344.2	6201.0	5291.3	3206.0
77.5°	419.4	429.2	557.7	673.5	691.5	1248.3	3591.3	2922.3	1759.3	1411.8	890.9
80°	331.3	349.3	486.7	524.5	466.1	514.5	1160.2	927.7	696.0	638.5	461.6
82.5°	262.2	274.8	417.6	396.9	326.0	346.7	555.9	541.6	452.7	412.2	266.7
85°	188.6	212.0	343.1	299.0	213.7	233.5	369.1	353.8	259.5	212.0	117.6
87.5°	77.2	100.6	242.4	198.5	119.5	108.6	184.1	173.3	123.1	89.8	58.4
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°	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5	2708.5
2.5°	2705.8	2727.4	2755.2	2772.3	2781.2	2787.5	2797.5	2796.5	2799.2	2800.1	2803.7
5°	2723.8	2759.7	2800.1	2810.9	2810.9	2801.0	2791.1	2775.0	2768.7	2766.9	2768.7
7.5°	2770.5	2809.9	2845.0	2832.4	2805.5	2766.0	2714.8	2669.9	2645.7	2637.6	2635.7
10°	2829.8	2877.4	2891.7	2844.1	2765.0	2669.9	2568.4	2494.8	2452.5	2440.9	2437.3
12.5°	2901.6	2946.5	2926.8	2826.1	2679.7	2526.2	2386.1	2268.5	2180.4	2152.6	2150.9
15°	2980.6	3015.7	2946.5	2770.5	2552.3	2326.0	2076.3	1873.3	1763.8	1728.8	1726.0
17.5°	3054.2	3072.2	2934.8	2673.5	2364.6	1998.1	1666.8	1510.5	1472.8	1481.7	1483.6
20°	3117.1	3117.1	2895.3	2534.3	2069.1	1566.2	1356.9	1354.3	1381.2	1408.1	1413.5
22.5°	3186.3	3145.0	2826.1	2337.6	1650.6	1281.6	1251.0	1276.1	1306.6	1336.3	1340.8
25°	3271.6	3167.4	2730.1	2039.5	1297.7	1163.9	1175.6	1196.2	1211.5	1230.3	1233.1
27.5°	3366.7	3196.1	2603.4	1629.0	1126.2	1090.3	1099.2	1106.4	1104.6	1111.7	1113.6
30°	3480.8	3229.4	2430.1	1273.5	1055.2	1027.3	1011.2	1004.9	1004.9	1016.6	1021.1
32.5°	3633.5	3278.8	2181.3	1091.1	1021.1	982.4	930.4	907.1	916.1	955.5	964.5
35°	3801.4	3331.8	1844.6	1029.2	1013.8	961.8	881.0	837.9	838.8	875.5	887.3
37.5°	3984.6	3399.1	1475.5	1017.5	1030.0	962.7	855.0	795.7	771.4	771.4	775.9
40°	4219.1	3468.2	1194.4	1025.6	1064.2	973.4	841.5	762.4	694.2	696.0	699.6
42.5°	4524.3	3527.5	1043.5	1042.6	1105.5	987.9	840.6	718.4	659.2	699.6	736.4
45°	4863.8	3557.2	977.1	1057.9	1138.7	996.9	826.2	711.3	663.7	784.0	854.1
47.5°	5254.5	3540.1	940.3	1063.3	1146.8	996.9	810.1	728.3	695.1	908.0	989.6
50°	5682.8	3490.7	904.3	1052.5	1144.1	995.0	825.3	745.4	706.8	929.5	986.0
52.5°	6186.6	3449.4	866.6	1029.2	1125.2	985.2	843.2	738.2	669.9	845.1	884.5
55°	6761.4	3461.1	824.4	995.9	1095.6	966.3	837.0	709.4	631.4	744.5	768.7
57.5°	7496.0	3600.3	774.1	953.7	1055.2	934.9	814.6	696.0	619.6	675.4	689.7
60°	8315.9	3842.7	711.3	911.6	1004.9	884.5	797.5	702.3	625.0	669.9	677.1
62.5°	8917.6	3983.8	657.3	849.6	936.6	828.9	775.9	710.3	639.4	688.8	687.0
65°	9081.0	3752.1	590.0	758.8	844.1	770.5	749.0	719.3	645.7	704.1	696.0
66°	8852.0	3502.4	560.4	716.7	797.5	741.7	735.5	718.4	643.0	705.8	692.4
67.5°	8296.1	2990.5	509.2	654.7	722.9	698.7	713.9	710.3	635.9	704.1	685.2
70°	6765.9	2040.4	435.6	545.1	601.7	615.2	672.6	681.6	612.4	672.6	631.4
72.5°	4727.4	1242.9	385.2	423.0	486.7	524.5	616.0	642.1	581.0	587.3	547.8
75°	2284.7	660.1	349.3	327.8	378.1	438.2	547.8	588.2	531.6	491.2	476.9
77.5°	712.2	403.2	296.3	264.0	296.3	353.8	458.0	515.5	473.3	411.3	405.9
80°	382.6	296.3	228.1	212.0	234.4	277.5	360.1	430.2	406.8	369.1	329.6
82.5°	252.4	192.2	168.8	164.4	178.7	212.0	267.6	356.5	356.5	316.1	229.9
85°	130.2	117.6	115.8	115.8	124.8	141.0	182.3	274.8	292.8	167.0	138.3
87.5°	64.7	67.3	62.9	65.6	70.1	69.2	87.2	138.3	165.2	101.5	84.4
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)