

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: P192341

Luminaire Tested: **GLEON-AF-03-LED-E1-T4FT-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20055 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

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

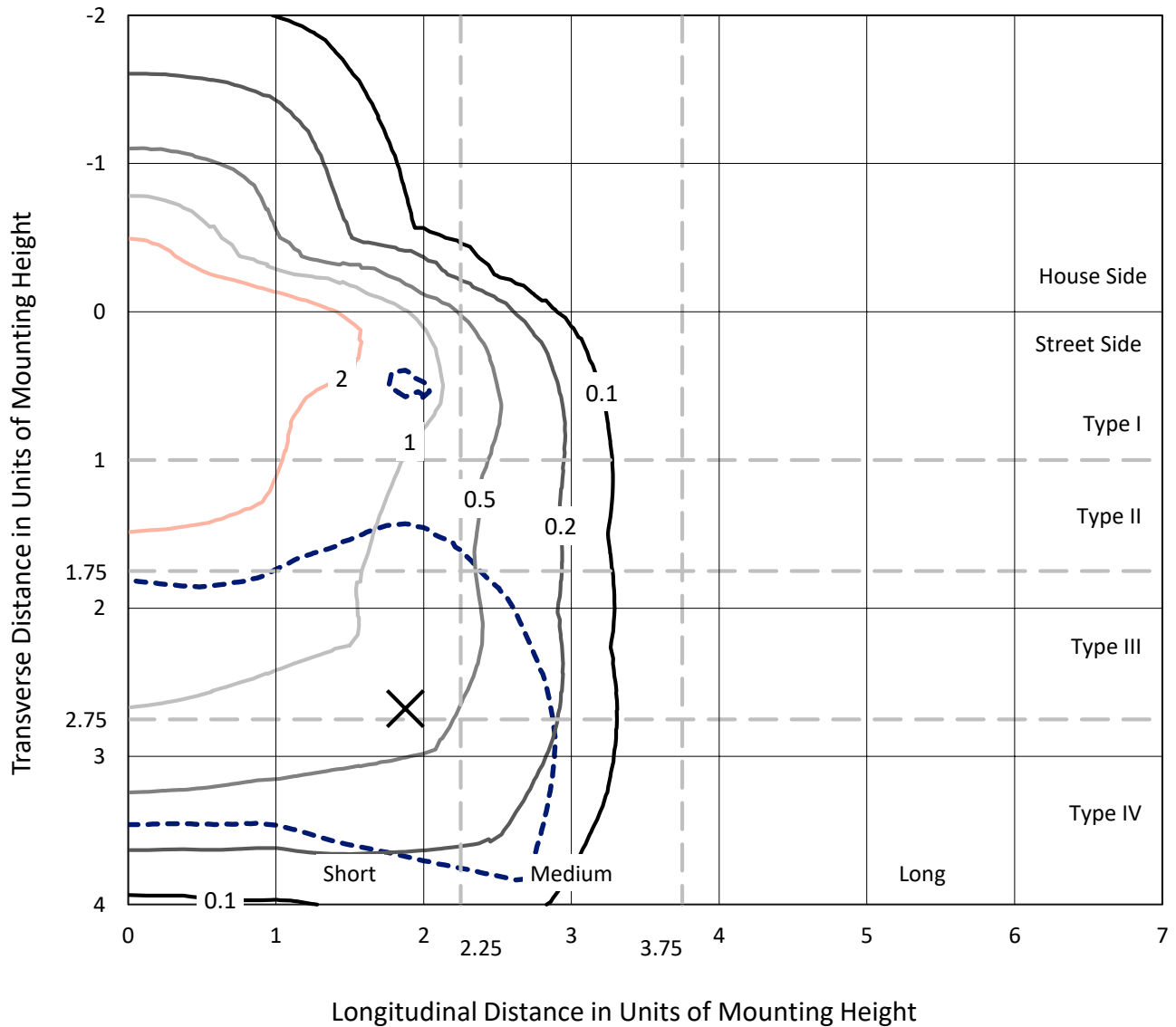


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

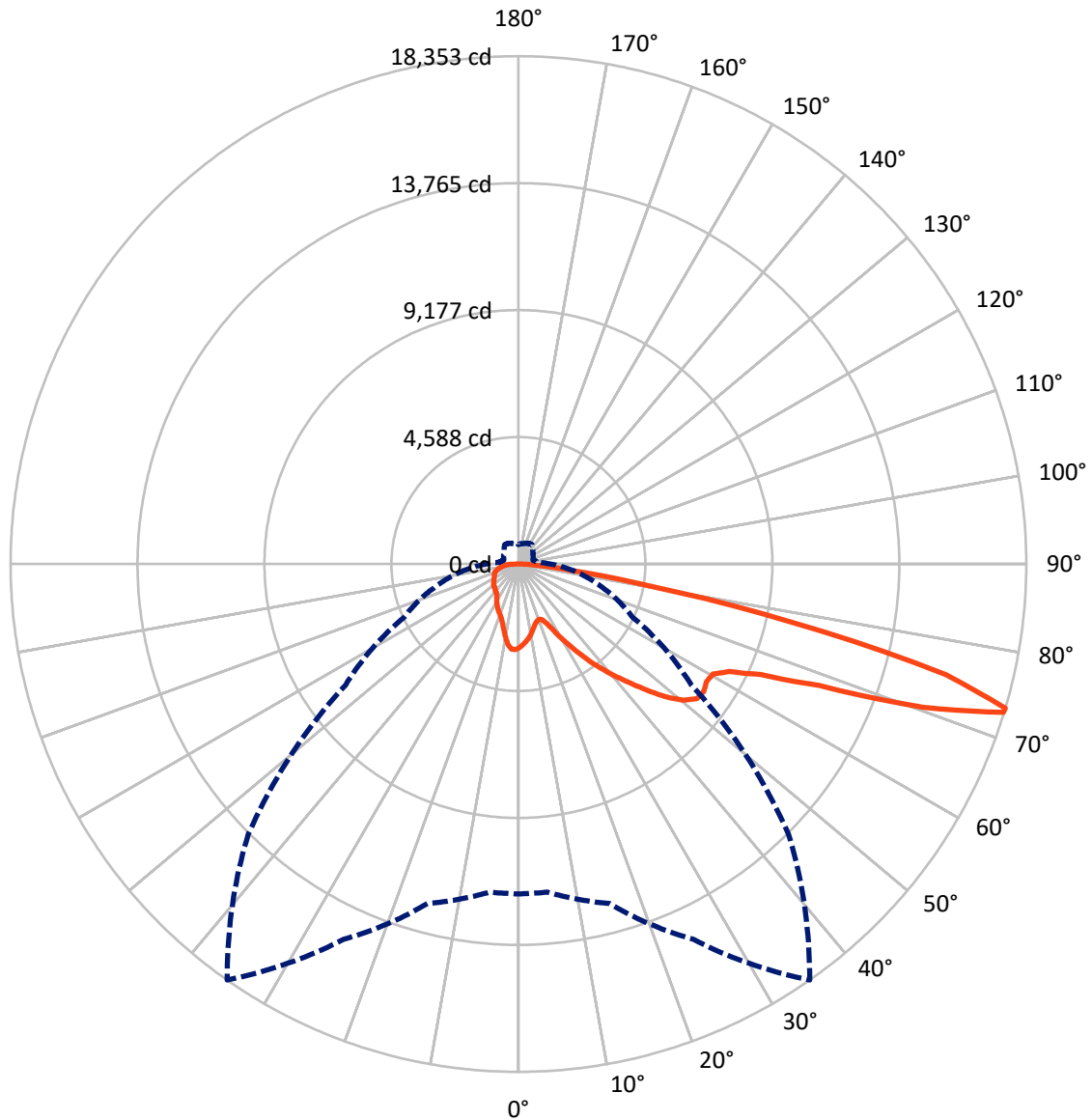


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3825.0	0.0	3825.0
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	16229.9	0.0	16229.9
	% Fixture	80.9	0.0	80.9
Total	Lumens	20055.0	0.0	20055.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.0	1.4
10°-20°	683.9	3.4
20°-30°	1105.7	5.5
30°-40°	1854.0	9.2
40°-50°	2857.9	14.3
50°-60°	3834.2	19.1
60°-70°	5107.9	25.5
70°-80°	3895.8	19.4
80°-90°	441.6	2.2
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°	20055.0	100.0
0°-180°	20055.0	100.0

Coefficient of Utilization



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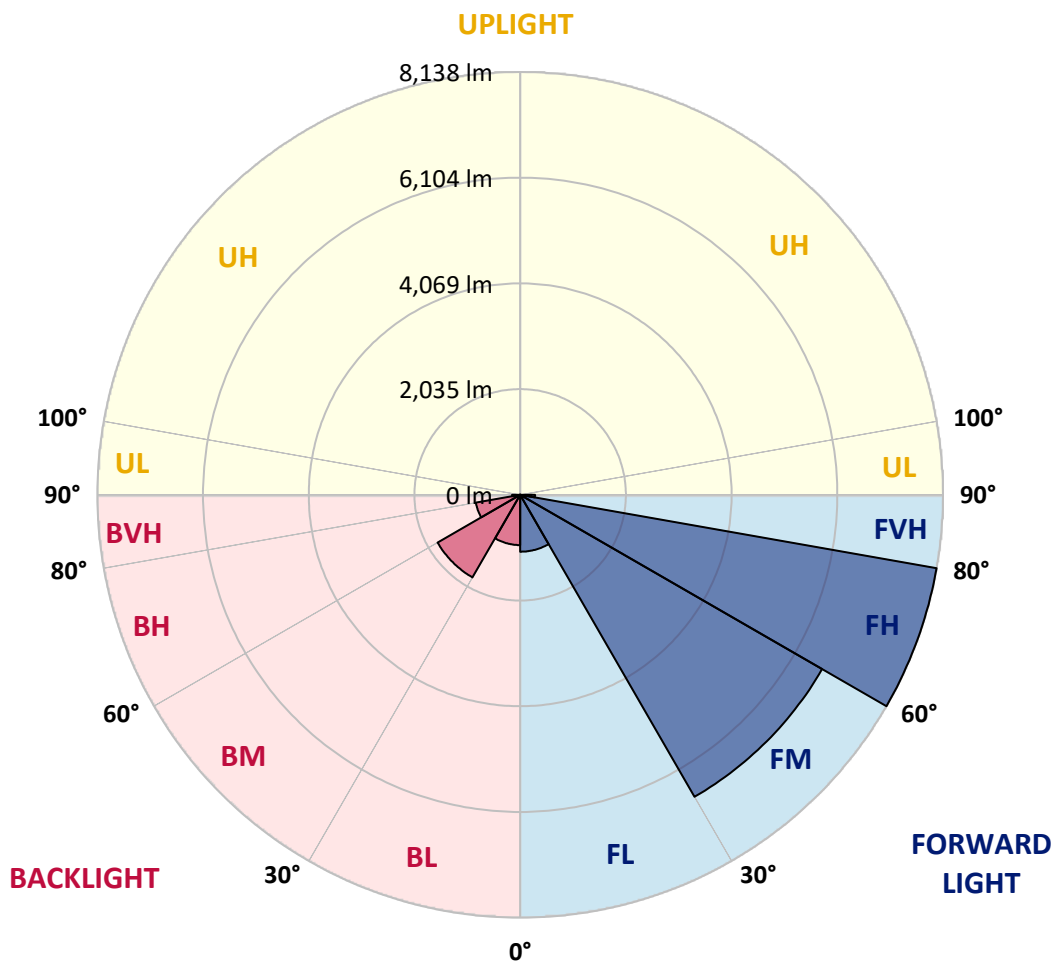
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1095.7	5.5			
FM	(30°-60°)	6710.5	33.5			
FH	(60°-80°)	8138.3	40.6			G4/12000
FVH	(80°-90°)	285.4	1.4			G3/500
BL	(0°-30°)	967.9	4.8	B2/1000		
BM	(30°-60°)	1835.6	9.2	B2/2500		
BH	(60°-80°)	865.4	4.3	B2/1000		G2/1000
BVH	(80°-90°)	156.1	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3026.9	3026.9	3026.9	3026.9	3026.9	3026.9	3026.9	3026.9	3026.9	3026.9	3026.9
2.5°	2907.5	2913.3	2906.5	2915.2	2929.7	2945.1	2955.7	2971.1	2988.4	3012.5	3018.3
5°	2770.7	2779.4	2779.4	2794.8	2822.8	2847.8	2870.9	2895.9	2932.5	2974.0	2990.3
7.5°	2620.5	2625.3	2634.0	2657.1	2697.6	2733.2	2765.9	2806.4	2856.5	2911.4	2940.2
10°	2439.5	2446.2	2459.7	2492.4	2547.3	2596.4	2643.6	2699.5	2763.0	2831.4	2868.0
12.5°	2311.4	2309.4	2315.2	2339.3	2387.4	2447.2	2515.5	2586.8	2664.8	2744.7	2789.0
15°	2268.0	2257.4	2235.3	2229.5	2255.5	2315.2	2394.2	2481.8	2575.2	2671.6	2726.4
17.5°	2295.0	2276.7	2216.0	2171.7	2167.9	2213.1	2296.9	2395.1	2503.0	2620.5	2688.9
20°	2464.5	2421.2	2271.9	2168.8	2133.2	2155.3	2228.5	2332.6	2459.7	2615.7	2703.3
22.5°	2869.9	2806.4	2489.5	2297.9	2177.5	2150.5	2205.4	2316.2	2464.5	2675.4	2787.1
25°	3460.3	3369.8	2863.2	2619.5	2371.1	2227.6	2240.1	2353.7	2532.9	2814.1	2948.9
27.5°	3926.4	3867.7	3351.5	3073.1	2723.6	2435.6	2352.8	2448.1	2672.5	3041.4	3179.1
30°	4203.8	4168.2	3873.5	3587.4	3173.3	2766.9	2568.5	2625.3	2891.1	3356.3	3469.9
32.5°	4525.5	4504.3	4359.8	4096.9	3658.7	3202.2	2910.4	2890.2	3183.9	3734.8	3786.8
35°	4858.7	4851.9	4767.2	4578.4	4179.7	3776.2	3364.0	3227.2	3502.7	4127.7	4095.0
37.5°	5168.8	5157.2	5108.1	4998.3	4724.8	4392.6	3826.3	3573.0	3846.5	4503.3	4357.9
40°	5739.9	5649.4	5480.8	5398.0	5275.7	4911.6	4193.2	3895.6	4202.8	4861.6	4585.2
42.5°	6436.2	6288.8	5974.9	5861.2	5843.9	5321.0	4443.6	4208.6	4562.1	5216.9	4808.6
45°	6984.2	6845.5	6574.9	6431.4	6494.9	5691.7	4695.0	4542.8	4931.9	5589.6	5038.8
47.5°	7568.8	7351.1	6992.8	7036.2	7174.9	6042.3	4951.1	4902.0	5337.3	6006.7	5324.8
50°	7589.9	7423.3	7266.3	7525.4	7741.1	6364.9	5271.8	5278.6	5833.3	6531.5	5705.2
52.5°	7149.8	7114.2	7363.6	7771.0	8082.1	6620.1	5636.8	5667.7	6468.0	7134.4	6123.2
55°	6995.7	6955.3	7243.2	7685.3	8128.3	6831.0	6032.7	6088.5	7235.5	7770.0	6530.6
57.5°	7371.3	7281.8	7301.0	7644.8	8015.6	7062.2	6464.1	6576.8	8069.5	8325.7	6792.5
60°	8421.1	8229.4	7865.4	7856.7	8076.3	7408.9	6963.0	7100.7	8936.3	8591.5	6690.4
62.5°	9893.6	9701.9	9020.1	8576.1	8543.4	7980.9	7575.5	7612.1	9437.1	8231.3	6067.3
65°	11487.5	11316.0	10554.3	9927.3	9624.9	8928.6	8287.2	7840.3	9273.4	7240.3	4977.1
67.5°	13422.3	13238.3	12583.4	12004.6	11713.8	10458.0	8787.0	7621.7	8234.2	5608.9	3577.8
70°	14775.4	14587.6	14329.5	14798.5	15510.2	12664.3	8851.6	6732.8	6150.2	3728.0	2153.4
72.5°	13010.1	12922.4	13393.4	15368.6	18333.0	14003.0	8001.2	4902.0	3572.0	1979.1	1246.2
73°	11919.9	11900.6	12703.8	14969.0	18353.2	13796.9	7628.5	4556.3	3063.5	1750.9	1139.3
75°	5382.6	5537.6	7298.1	11433.5	15945.5	11369.0	5369.1	2613.8	1730.6	1209.6	860.0
77.5°	1293.4	1347.3	2283.4	5429.8	10069.8	6775.2	2432.7	1292.4	1106.6	854.2	627.9
80°	550.9	569.2	879.3	2006.1	4741.2	2728.4	1121.0	865.8	765.6	596.1	440.1
82.5°	306.3	325.5	498.9	910.1	1913.6	930.3	683.8	602.9	503.7	359.2	286.0
85°	173.4	183.9	291.8	508.5	810.9	373.7	409.3	400.6	284.1	184.9	140.6
87.5°	81.9	88.6	140.6	236.0	317.8	146.4	208.0	229.2	178.2	112.7	73.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3026.9	3026.9	3026.9	3026.9	3026.9	3026.9	3026.9	3026.9	3026.9	3026.9
2.5°	3025.0	3042.3	3062.6	3073.1	3082.8	3094.3	3105.9	3105.9	3107.8	3108.8
5°	3003.8	3039.4	3071.2	3084.7	3087.6	3087.6	3084.7	3069.3	3055.8	3061.6
7.5°	2959.5	3011.5	3038.5	3033.7	2997.1	2954.7	2919.1	2875.7	2853.6	2849.7
10°	2895.9	2955.7	2960.5	2912.3	2821.8	2731.3	2656.1	2582.9	2548.3	2539.6
12.5°	2825.6	2880.5	2849.7	2750.5	2605.1	2473.2	2377.8	2303.7	2270.9	2262.2
15°	2768.8	2806.4	2728.4	2572.4	2389.4	2249.7	2170.8	2115.9	2092.7	2086.0
17.5°	2739.0	2746.7	2604.1	2393.2	2198.7	2082.2	2033.0	2007.0	1998.4	1993.6
20°	2753.4	2699.5	2485.7	2226.6	2042.7	1960.8	1949.2	1942.5	1940.6	1937.7
22.5°	2825.6	2685.0	2376.9	2068.7	1905.9	1870.3	1879.9	1878.9	1877.0	1875.1
25°	2954.7	2697.6	2270.9	1918.4	1791.3	1783.6	1800.9	1800.9	1793.2	1793.2
27.5°	3125.2	2723.6	2152.5	1775.9	1687.3	1688.3	1701.7	1697.9	1689.2	1683.4
30°	3333.2	2739.9	2013.8	1647.8	1590.0	1586.2	1590.0	1573.7	1547.7	1545.7
32.5°	3546.0	2719.7	1852.9	1534.2	1487.0	1478.3	1475.4	1452.3	1422.5	1413.8
35°	3738.6	2645.5	1689.2	1443.6	1388.7	1369.5	1383.0	1375.3	1348.3	1341.6
37.5°	3879.2	2507.8	1541.9	1363.7	1318.4	1313.6	1322.3	1325.2	1293.4	1286.7
40°	3973.6	2321.0	1415.7	1296.3	1305.0	1286.7	1257.8	1237.5	1227.9	1225.0
42.5°	4049.7	2126.5	1309.8	1264.5	1307.8	1254.9	1192.3	1159.5	1176.9	1184.6
45°	4137.3	1936.7	1221.2	1225.0	1293.4	1218.3	1147.0	1115.2	1122.0	1123.9
47.5°	4257.7	1705.6	1125.8	1161.5	1245.2	1193.2	1119.1	1073.8	1042.0	1027.6
50°	4424.3	1432.1	1026.6	1090.2	1198.1	1174.9	1075.7	1027.6	968.8	955.4
52.5°	4539.9	1176.9	944.8	1030.5	1155.7	1138.3	1041.1	978.5	916.8	905.3
55°	4477.3	977.5	873.5	964.0	1099.8	1093.1	1012.2	928.4	880.2	870.6
57.5°	4164.3	851.4	818.6	901.4	1031.4	1054.6	973.7	886.0	851.4	844.6
60°	3567.2	772.4	783.9	859.1	975.6	1016.0	935.1	862.9	839.8	835.0
62.5°	2767.9	719.4	757.9	828.2	932.2	989.1	914.0	860.0	851.4	845.6
65°	1983.0	677.0	730.0	797.4	892.8	964.0	906.2	856.2	858.1	853.3
67.5°	1347.3	639.5	696.3	762.7	854.2	941.9	895.7	842.7	866.8	861.0
70°	942.8	602.9	656.8	718.4	806.1	911.1	876.4	822.5	820.5	797.4
72.5°	735.8	554.7	602.9	656.8	744.5	867.7	837.9	777.2	745.4	721.3
73°	702.1	543.2	589.4	643.3	731.0	857.1	827.3	764.7	729.0	706.9
75°	580.7	493.1	535.5	583.6	673.2	807.1	775.3	707.9	662.6	649.1
77.5°	456.5	421.8	462.3	505.6	593.2	733.9	698.2	633.7	608.7	597.1
80°	338.0	349.6	385.2	423.7	514.3	655.8	624.1	559.5	671.3	643.3
82.5°	237.9	264.8	297.6	332.3	431.5	579.8	541.2	474.8	491.2	408.3
85°	140.6	173.4	204.2	234.0	311.1	480.6	446.9	378.5	310.1	295.7
87.5°	81.9	96.3	105.0	135.8	213.8	362.1	314.9	280.3	160.8	108.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)