

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: P191541

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191541
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-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 20515.3 lumens
Efficiency: N/A
Efficacy: 107.4 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

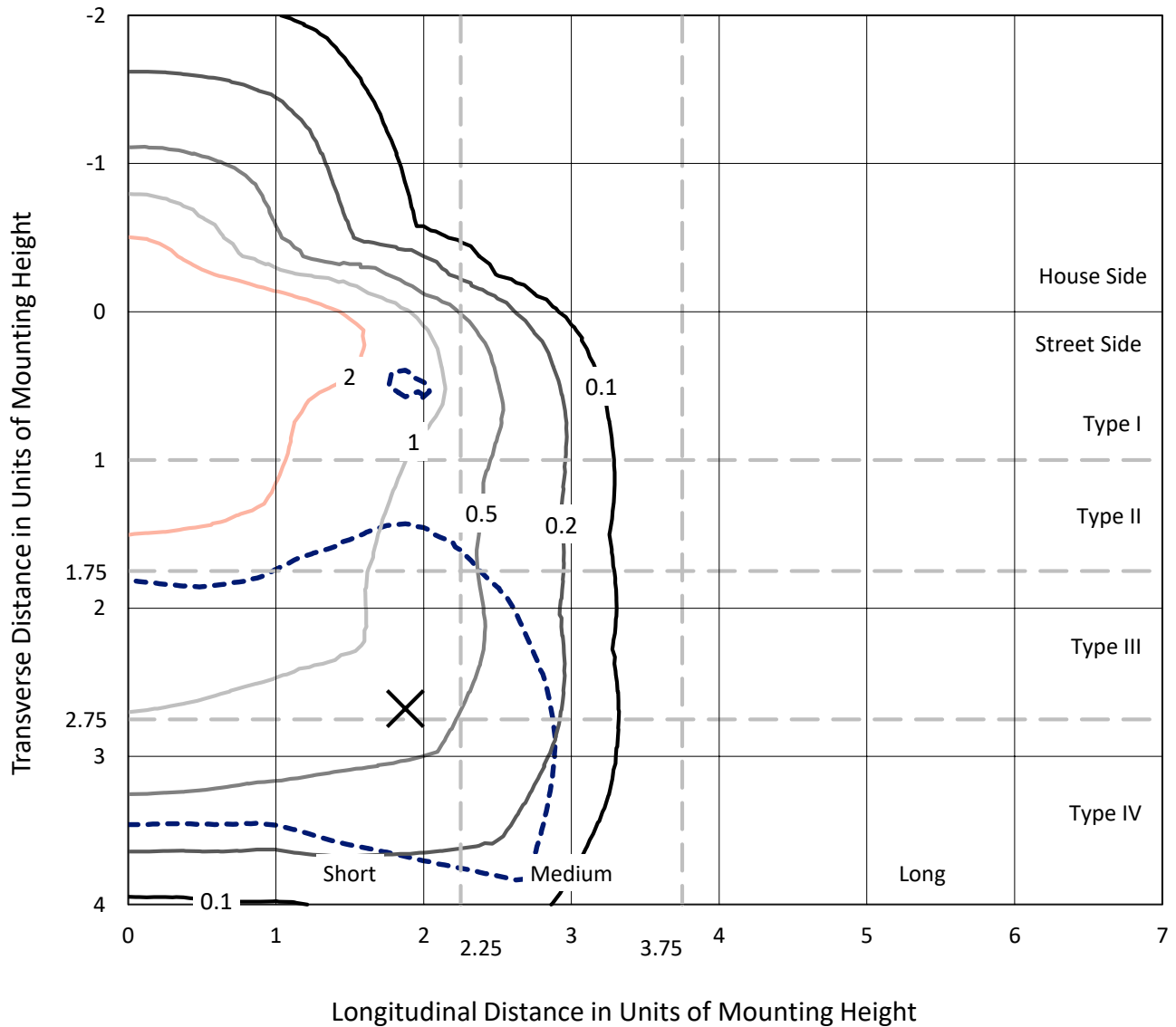
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

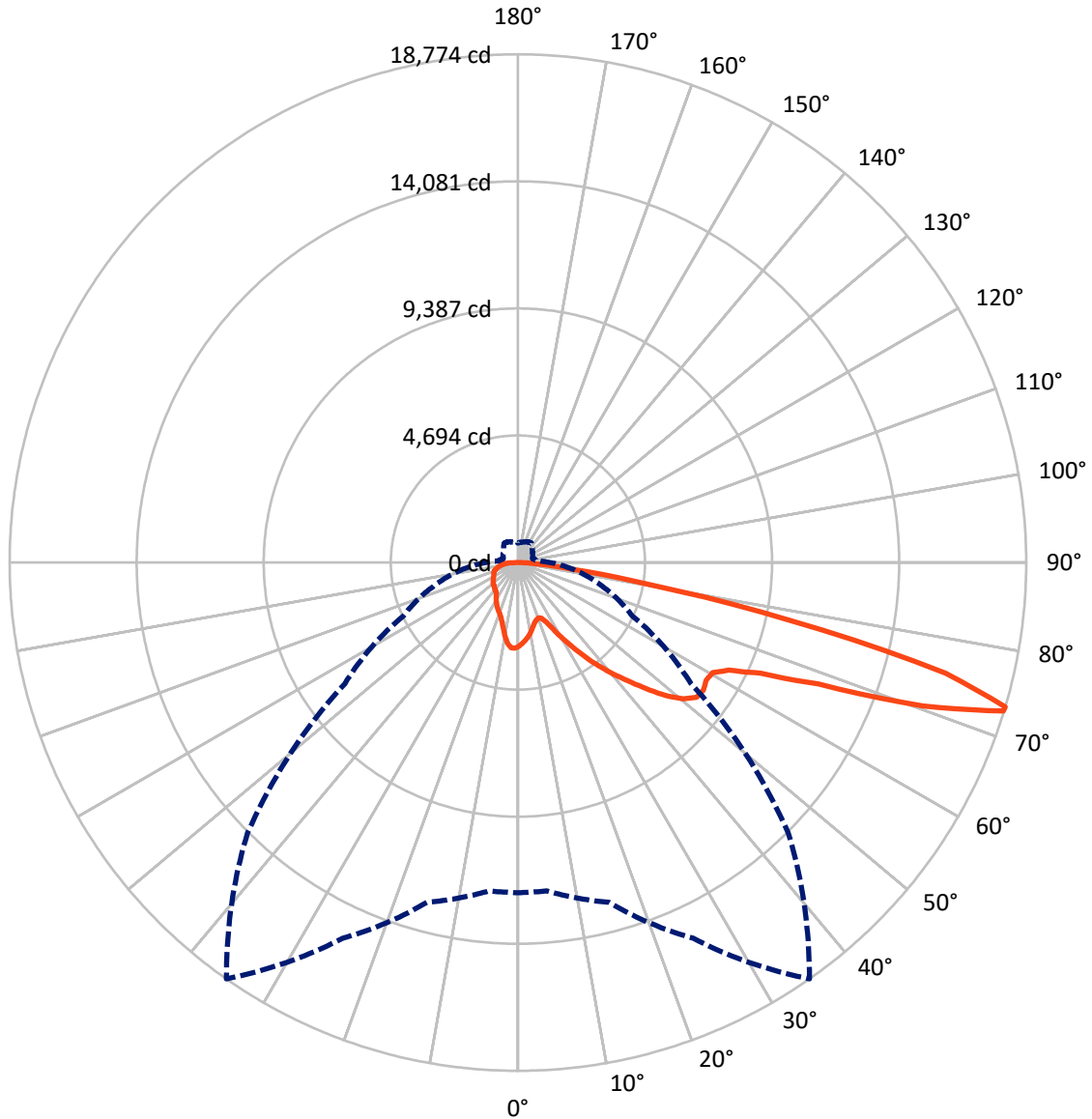
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	3912.8	0.0	3912.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	16602.4	0.0	16602.4
	% Fixture	80.9	0.0	80.9
Total	Lumens	20515.3	0.0	20515.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.3	1.4
10°-20°	699.6	3.4
20°-30°	1131.0	5.5
30°-40°	1896.6	9.2
40°-50°	2923.5	14.3
50°-60°	3922.2	19.1
60°-70°	5225.1	25.5
70°-80°	3985.2	19.4
80°-90°	451.7	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°	20515.3	100.0
0°-180°	20515.3	100.0



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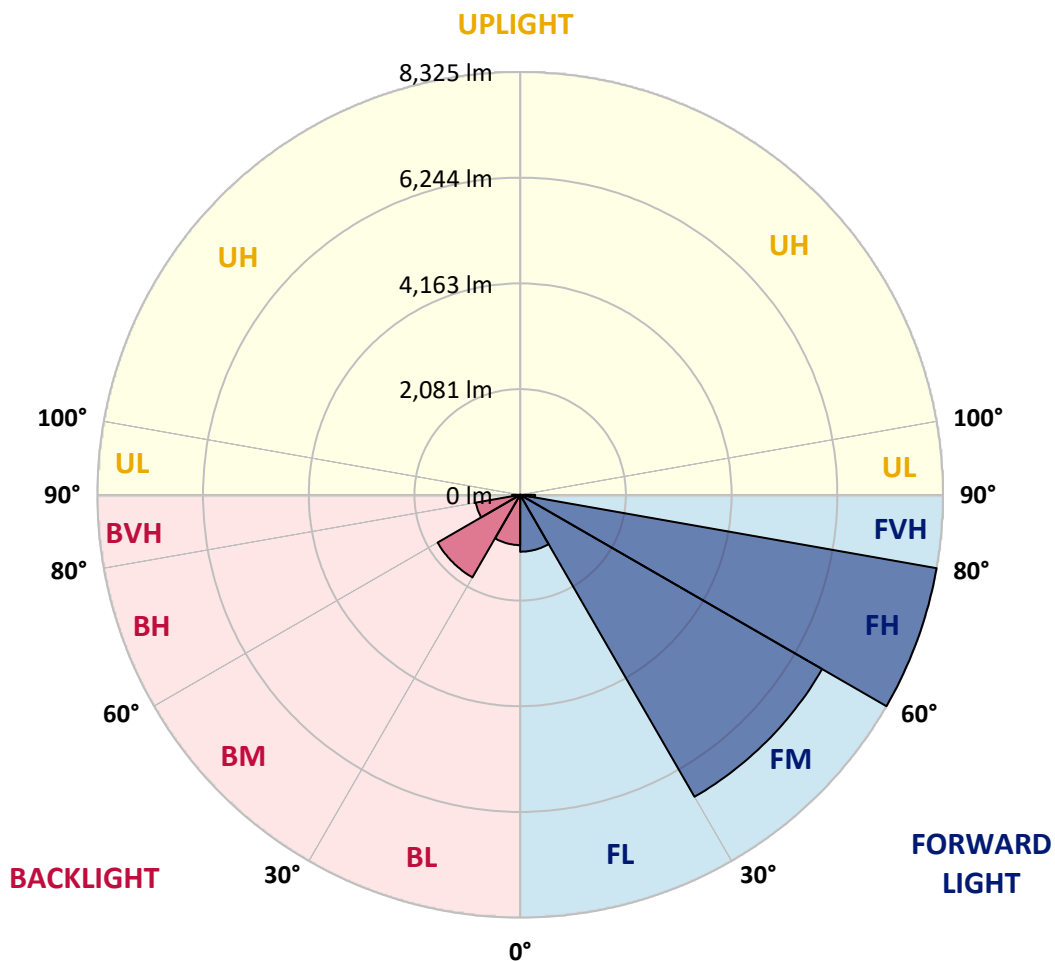
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1120.8	5.5			
FM	(30°-60°)	6864.5	33.5			
FH	(60°-80°)	8325.1	40.6			G4/12000
FVH	(80°-90°)	292.0	1.4			G3/500
BL	(0°-30°)	990.1	4.8	B2/1000		
BM	(30°-60°)	1877.7	9.2	B2/2500		
BH	(60°-80°)	885.2	4.3	B2/1000		G2/1000
BVH	(80°-90°)	159.7	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°	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4
2.5°	2974.2	2980.2	2973.2	2982.1	2996.9	3012.7	3023.5	3039.3	3057.0	3081.6	3087.6
5°	2834.3	2843.2	2843.2	2858.9	2887.6	2913.2	2936.8	2962.4	2999.8	3042.3	3058.9
7.5°	2680.6	2685.6	2694.5	2718.1	2759.5	2795.9	2829.4	2870.8	2922.1	2978.2	3007.7
10°	2495.5	2502.3	2516.2	2549.6	2605.8	2656.0	2704.3	2761.5	2826.4	2896.4	2933.8
12.5°	2364.4	2362.4	2368.3	2393.0	2442.2	2503.4	2573.2	2646.2	2726.0	2807.7	2853.0
15°	2320.1	2309.2	2286.6	2280.7	2307.3	2368.3	2449.1	2538.8	2634.3	2732.9	2789.0
17.5°	2347.7	2329.0	2266.9	2221.5	2217.7	2263.9	2349.6	2450.1	2560.4	2680.6	2750.6
20°	2521.1	2476.8	2324.0	2218.6	2182.2	2204.8	2279.6	2386.1	2516.2	2675.7	2765.3
22.5°	2935.8	2870.8	2546.6	2350.6	2227.5	2199.9	2256.0	2369.4	2521.1	2736.8	2851.1
25°	3539.7	3447.1	2928.9	2679.6	2425.5	2278.7	2291.5	2407.7	2591.0	2878.7	3016.6
27.5°	4016.5	3956.5	3428.4	3143.6	2786.1	2491.5	2406.8	2504.3	2733.8	3111.2	3252.1
30°	4300.3	4263.9	3962.4	3669.7	3246.1	2830.4	2627.4	2685.6	2957.5	3433.3	3549.5
32.5°	4629.4	4607.7	4459.9	4190.9	3742.7	3275.7	2977.2	2956.5	3257.0	3820.5	3873.7
35°	4970.2	4963.3	4876.6	4683.5	4275.6	3862.9	3441.2	3301.3	3583.1	4222.4	4189.0
37.5°	5287.4	5275.6	5225.3	5113.0	4833.2	4493.4	3914.1	3655.0	3934.8	4606.7	4457.9
40°	5871.6	5779.1	5606.6	5521.9	5396.8	5024.3	4289.4	3985.0	4299.3	4973.2	4690.4
42.5°	6583.9	6433.1	6112.0	5995.7	5978.0	5443.1	4545.6	4305.2	4666.8	5336.6	4919.0
45°	7144.5	7002.6	6725.8	6579.0	6644.0	5822.3	4802.8	4647.1	5045.1	5717.9	5154.4
47.5°	7742.5	7519.8	7153.3	7197.7	7339.6	6181.0	5064.7	5014.5	5459.8	6144.6	5447.0
50°	7764.1	7593.7	7433.1	7698.1	7918.8	6511.0	5392.8	5399.7	5967.2	6681.4	5836.1
52.5°	7313.9	7277.5	7532.6	7949.4	8267.6	6772.0	5766.2	5797.8	6616.4	7298.1	6263.7
55°	7156.3	7114.9	7409.4	7861.7	8314.9	6987.8	6171.2	6228.2	7401.6	7948.3	6680.5
57.5°	7540.5	7448.9	7468.6	7820.3	8199.6	7224.3	6612.5	6727.7	8254.7	8516.8	6948.4
60°	8614.4	8418.3	8045.9	8037.0	8261.7	7578.9	7122.8	7263.7	9141.4	8788.7	6844.0
62.5°	10120.7	9924.6	9227.1	8772.9	8739.5	8164.1	7749.4	7786.8	9653.7	8420.2	6206.5
65°	11751.1	11575.7	10796.5	10155.1	9845.8	9133.5	8477.4	8020.2	9486.2	7406.5	5091.3
67.5°	13730.4	13542.1	12872.2	12280.1	11982.6	10698.0	8988.7	7796.6	8423.2	5737.6	3659.9
70°	15114.5	14922.4	14658.4	15138.1	15866.2	12955.0	9054.8	6887.3	6291.4	3813.6	2202.8
72.5°	13308.7	13219.0	13700.8	15721.3	18753.8	14324.4	8184.8	5014.5	3654.0	2024.5	1274.8
73°	12193.5	12173.7	12995.4	15312.6	18774.4	14113.6	7803.6	4660.9	3133.8	1791.1	1165.4
75°	5506.1	5664.7	7465.6	11695.9	16311.5	11629.9	5492.3	2673.8	1770.3	1237.4	879.7
77.5°	1323.1	1378.2	2335.8	5554.4	10300.9	6930.7	2488.5	1322.1	1132.0	873.8	642.3
80°	563.5	582.3	899.5	2052.1	4850.0	2791.0	1146.7	885.7	783.2	609.8	450.2
82.5°	313.3	333.0	510.4	931.0	1957.5	951.7	699.5	616.7	515.3	367.4	292.6
85°	177.4	188.1	298.5	520.2	829.5	382.3	418.7	409.8	290.6	189.1	143.8
87.5°	83.8	90.6	143.8	241.4	325.1	149.8	212.8	234.5	182.3	115.3	74.9
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°	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4	3096.4
2.5°	3094.4	3112.1	3132.9	3143.6	3153.6	3165.3	3177.2	3177.2	3179.1	3180.1
5°	3072.7	3109.2	3141.7	3155.5	3158.5	3158.5	3155.5	3139.7	3125.9	3131.9
7.5°	3027.4	3080.6	3108.2	3103.3	3065.9	3022.5	2986.1	2941.7	2919.1	2915.1
10°	2962.4	3023.5	3028.4	2979.1	2886.6	2794.0	2717.1	2642.2	2606.8	2597.9
12.5°	2890.4	2946.6	2915.1	2813.6	2664.9	2530.0	2432.4	2356.6	2323.0	2314.1
15°	2832.3	2870.8	2791.0	2631.4	2444.2	2301.3	2220.6	2164.5	2140.7	2133.9
17.5°	2801.9	2809.7	2663.9	2448.1	2249.2	2130.0	2079.7	2053.1	2044.3	2039.4
20°	2816.6	2761.5	2542.7	2277.7	2089.6	2005.8	1993.9	1987.1	1985.1	1982.2
22.5°	2890.4	2746.6	2431.5	2116.2	1949.6	1913.2	1923.0	1922.0	1920.1	1918.1
25°	3022.5	2759.5	2323.0	1962.4	1832.4	1824.5	1842.2	1842.2	1834.4	1834.4
27.5°	3196.9	2786.1	2201.9	1816.7	1726.0	1727.0	1740.8	1736.9	1728.0	1722.0
30°	3409.7	2802.8	2060.0	1685.6	1626.5	1622.6	1626.5	1609.8	1583.2	1581.2
32.5°	3627.4	2782.1	1895.4	1569.4	1521.1	1512.2	1509.3	1485.6	1455.1	1446.2
35°	3824.4	2706.2	1728.0	1476.7	1420.6	1400.9	1414.7	1406.9	1379.2	1372.4
37.5°	3968.2	2565.4	1577.3	1395.0	1348.7	1343.7	1352.6	1355.6	1323.1	1316.2
40°	4064.8	2374.3	1448.2	1326.1	1335.0	1316.2	1286.7	1265.9	1256.1	1253.1
42.5°	4142.6	2175.3	1339.9	1293.5	1337.8	1283.7	1219.7	1186.1	1203.9	1211.8
45°	4232.3	1981.1	1249.2	1253.1	1323.1	1246.3	1173.3	1140.8	1147.8	1149.7
47.5°	4355.4	1744.7	1151.6	1188.2	1273.8	1220.6	1144.8	1098.4	1065.9	1051.2
50°	4525.8	1465.0	1050.2	1115.2	1225.6	1201.9	1100.4	1051.2	991.0	977.3
52.5°	4644.1	1203.9	966.5	1054.2	1182.2	1164.4	1065.0	1001.0	937.8	926.1
55°	4580.1	999.9	893.5	986.1	1125.0	1118.2	1035.4	949.7	900.4	890.6
57.5°	4259.9	870.9	837.4	922.1	1055.1	1078.8	996.0	906.3	870.9	864.0
60°	3649.1	790.1	801.9	878.8	998.0	1039.3	956.6	882.7	859.1	854.2
62.5°	2831.4	735.9	775.3	847.2	953.6	1011.8	935.0	879.7	870.9	865.0
65°	2028.5	692.5	746.8	815.7	913.3	986.1	927.0	875.9	877.8	872.9
67.5°	1378.2	654.2	712.3	780.2	873.8	963.5	916.3	862.0	886.7	880.8
70°	964.4	616.7	671.9	734.9	824.6	932.0	896.5	841.4	839.3	815.7
72.5°	752.7	567.4	616.7	671.9	761.6	887.6	857.1	795.0	762.5	737.9
73°	718.2	555.7	602.9	658.1	747.8	876.8	846.3	782.3	745.7	723.1
75°	594.0	504.4	547.8	597.0	688.7	825.6	793.1	724.1	677.8	664.0
77.5°	467.0	431.5	472.9	517.2	606.8	750.7	714.2	648.2	622.7	610.8
80°	345.8	357.6	394.0	433.4	526.1	670.9	638.4	572.3	686.7	658.1
82.5°	243.4	270.9	304.4	339.9	441.4	593.1	553.6	485.7	502.5	417.7
85°	143.8	177.4	208.9	239.4	318.2	491.6	457.2	387.2	317.2	302.5
87.5°	83.8	98.5	107.4	138.9	218.7	370.4	322.1	286.7	164.5	111.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)