

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: P194082

Luminaire Tested: **GLEON-AF-04-LED-E1-T4FT-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194082
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-04-LED-E1-T4FT-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 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: 21623 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 258
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

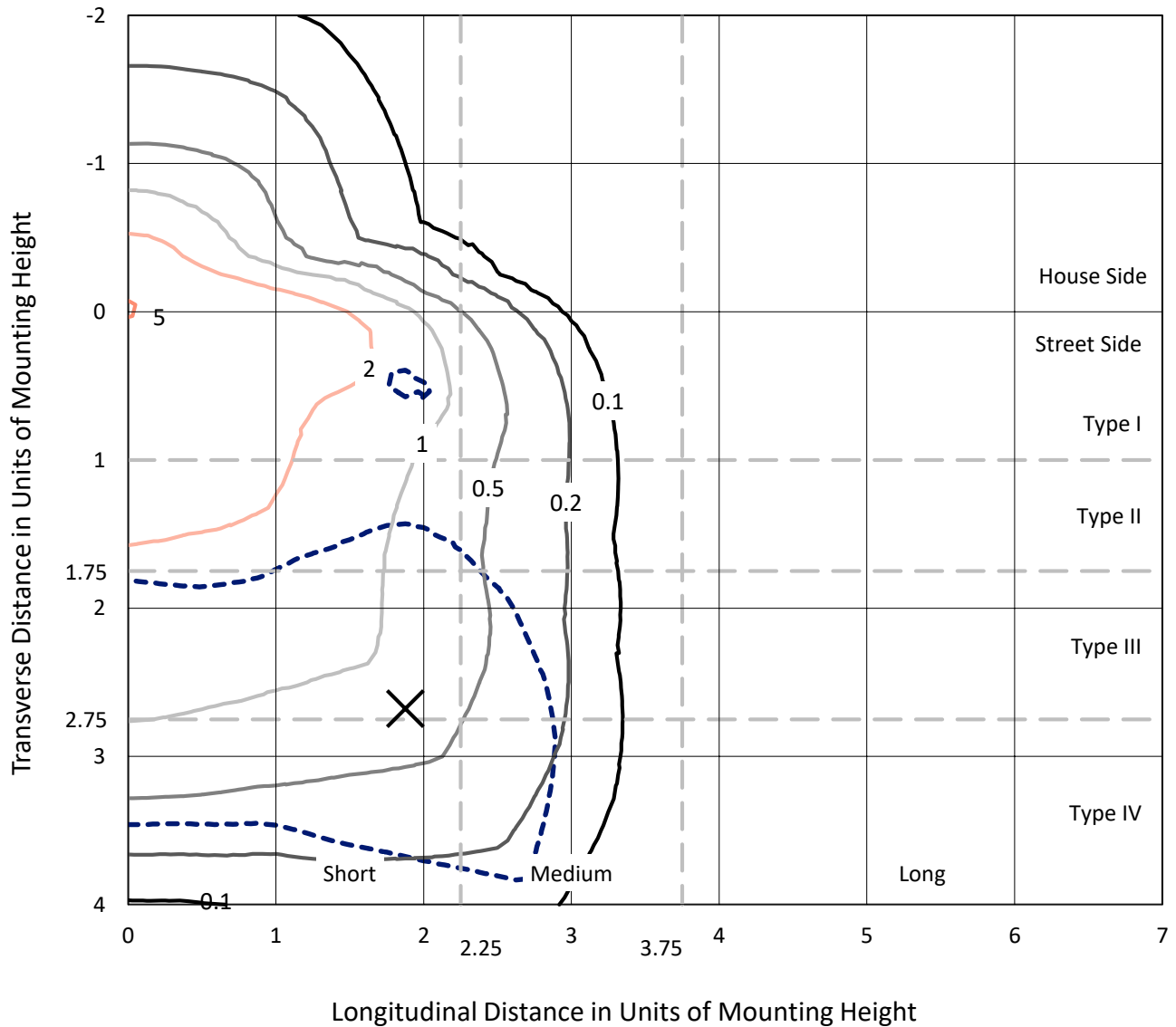


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Iso-Footcandle Lines of Horizontal Illumination

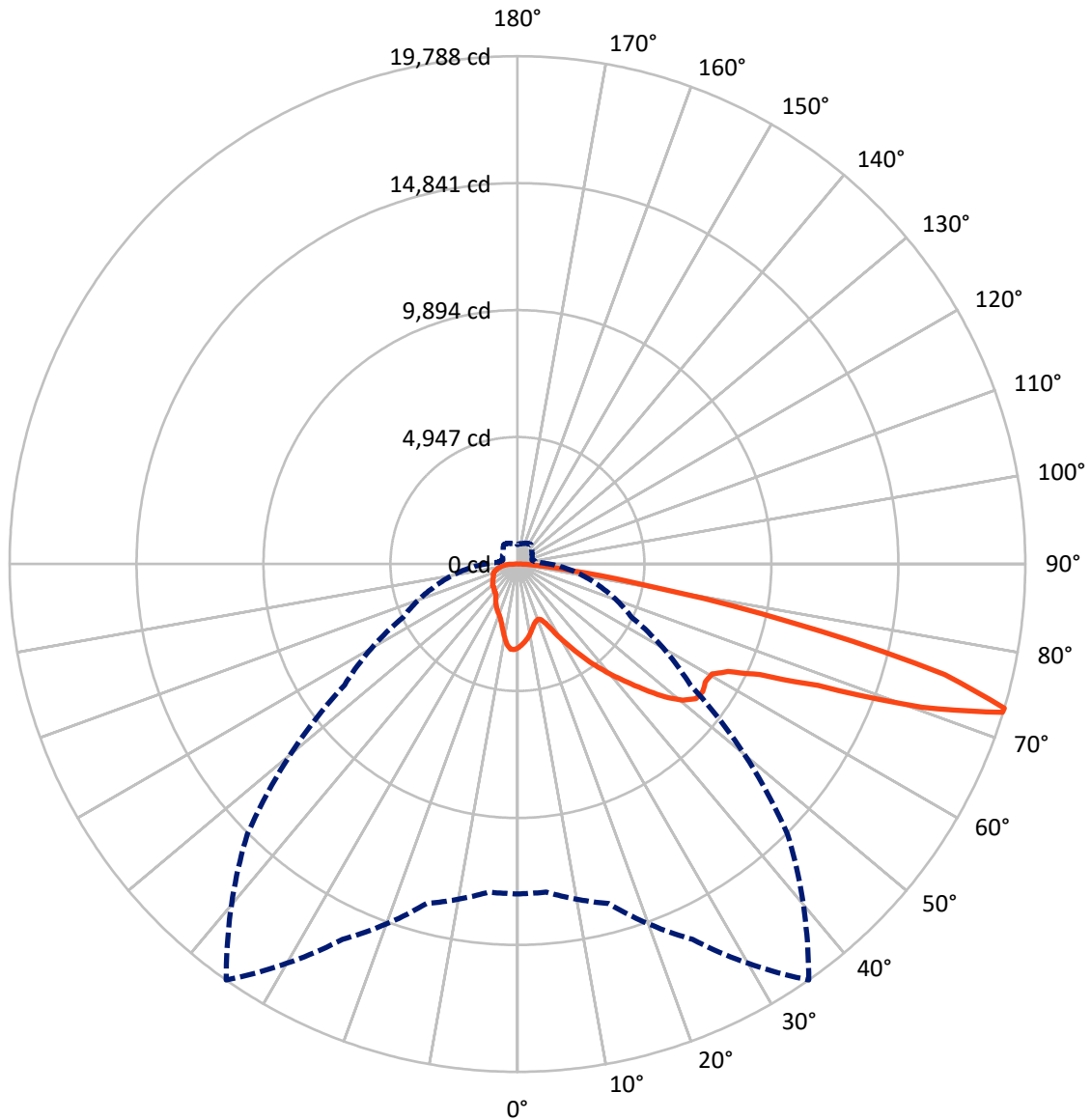
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	4124.1	0.0	4124.1
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	17498.9	0.0	17498.9
	% Fixture	80.9	0.0	80.9
Total	Lumens	21623.0	0.0	21623.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.4	1.4
10°-20°	737.4	3.4
20°-30°	1192.1	5.5
30°-40°	1999.0	9.2
40°-50°	3081.3	14.3
50°-60°	4134.0	19.1
60°-70°	5507.3	25.5
70°-80°	4200.4	19.4
80°-90°	476.1	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°	21623.0	100.0
0°-180°	21623.0	100.0

Coefficient of Utilization



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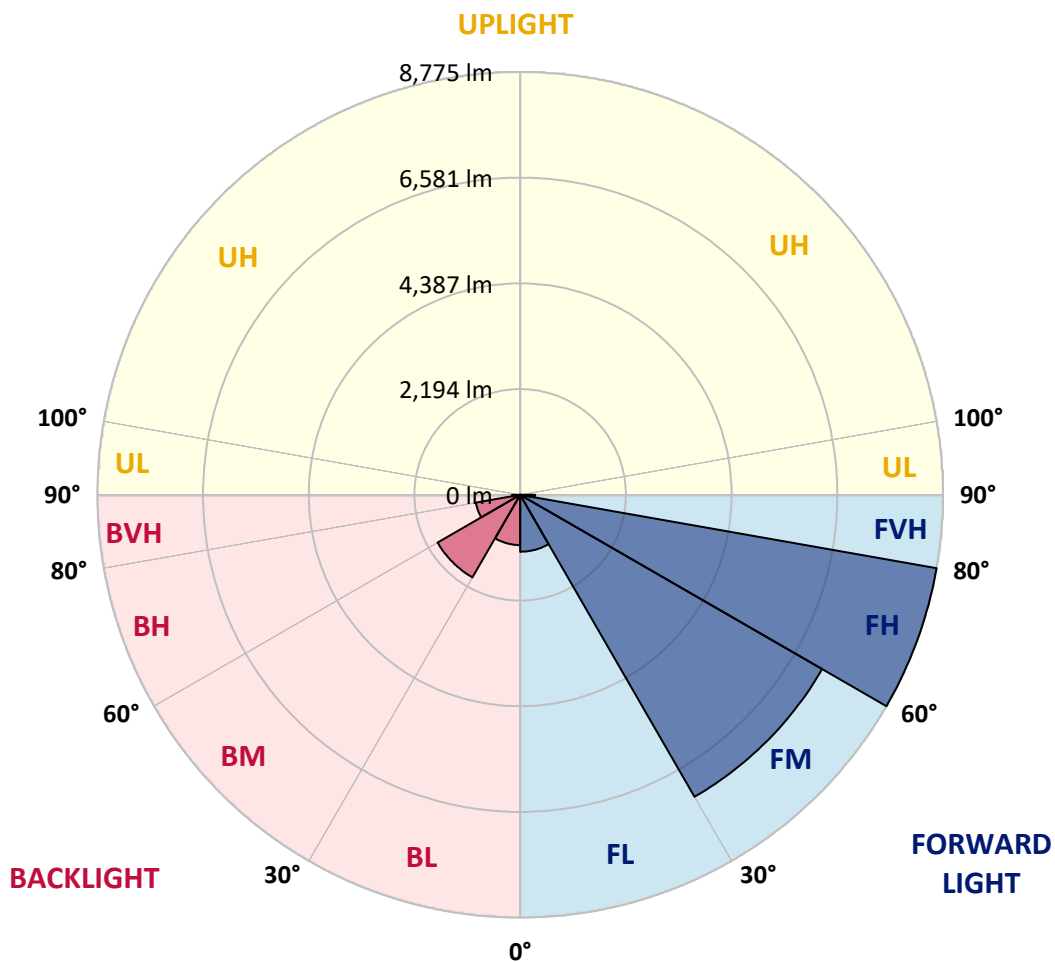
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1181.3	5.5			
FM	(30°-60°)	7235.2	33.5			
FH	(60°-80°)	8774.6	40.6			G4/12000
FVH	(80°-90°)	307.7	1.4			G3/500
BL	(0°-30°)	1043.6	4.8	B3/2500		
BM	(30°-60°)	1979.1	9.2	B2/2500		
BH	(60°-80°)	933.1	4.3	B2/1000		G2/1000
BVH	(80°-90°)	168.3	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3263.6	3263.6	3263.6	3263.6	3263.6	3263.6	3263.6	3263.6	3263.6	3263.6	3263.6
2.5°	3134.8	3141.1	3133.8	3143.1	3158.7	3175.3	3186.7	3203.4	3222.0	3248.0	3254.2
5°	2987.4	2996.7	2996.7	3013.3	3043.4	3070.4	3095.4	3122.4	3161.8	3206.5	3224.1
7.5°	2825.4	2830.6	2839.9	2864.9	2908.5	2946.9	2982.2	3025.8	3079.8	3139.0	3170.1
10°	2630.2	2637.4	2652.0	2687.3	2746.5	2799.4	2850.3	2910.5	2979.1	3052.8	3092.3
12.5°	2492.1	2490.0	2496.2	2522.2	2574.1	2638.5	2712.2	2789.0	2873.2	2959.3	3007.1
15°	2445.4	2433.9	2410.0	2403.8	2431.9	2496.2	2581.4	2675.9	2776.6	2880.4	2939.6
17.5°	2474.4	2454.7	2389.3	2341.5	2337.4	2386.2	2476.5	2582.4	2698.7	2825.4	2899.1
20°	2657.2	2610.5	2449.5	2338.4	2300.0	2323.9	2402.8	2514.9	2652.0	2820.2	2914.7
22.5°	3094.3	3025.8	2684.2	2477.5	2347.7	2318.7	2377.9	2497.3	2657.2	2884.6	3005.0
25°	3730.8	3633.2	3087.1	2824.4	2556.5	2401.7	2415.2	2537.8	2730.9	3034.1	3179.5
27.5°	4233.4	4170.1	3613.5	3313.4	2936.5	2626.0	2536.7	2639.5	2881.5	3279.2	3427.6
30°	4532.5	4494.0	4176.3	3867.9	3421.4	2983.2	2769.3	2830.6	3117.2	3618.7	3741.2
32.5°	4879.3	4856.4	4700.7	4417.2	3944.8	3452.6	3137.9	3116.1	3432.8	4026.8	4082.9
35°	5238.6	5231.3	5139.9	4936.4	4506.5	4071.4	3627.0	3479.6	3776.5	4450.4	4415.1
37.5°	5572.9	5560.4	5507.5	5389.1	5094.2	4736.0	4125.4	3852.3	4147.2	4855.4	4698.6
40°	6188.7	6091.1	5909.3	5820.0	5688.2	5295.7	4521.0	4200.2	4531.4	5241.7	4943.7
42.5°	6939.4	6780.5	6442.0	6319.5	6300.8	5737.0	4791.0	4537.7	4918.7	5624.8	5184.6
45°	7530.2	7380.7	7088.9	6934.2	7002.7	6136.7	5062.0	4898.0	5317.5	6026.7	5432.7
47.5°	8160.5	7925.8	7539.6	7586.3	7735.8	6514.7	5338.2	5285.3	5754.6	6476.3	5741.1
50°	8183.4	8003.7	7834.5	8113.8	8346.4	6862.6	5684.0	5691.3	6289.4	7042.2	6151.3
52.5°	7708.8	7670.4	7939.3	8378.6	8714.0	7137.7	6077.6	6110.8	6973.7	7692.2	6601.9
55°	7542.7	7499.1	7809.5	8286.2	8763.8	7365.1	6504.3	6564.5	7801.2	8377.5	7041.2
57.5°	7947.6	7851.1	7871.8	8242.5	8642.3	7614.3	6969.5	7091.0	8700.5	8976.7	7323.6
60°	9079.5	8872.8	8480.3	8471.0	8707.7	7988.1	7507.4	7655.9	9635.0	9263.3	7213.5
62.5°	10667.1	10460.5	9725.3	9246.6	9211.3	8604.9	8167.8	8207.2	10174.9	8874.9	6541.7
65°	12385.6	12200.8	11379.4	10703.5	10377.4	9626.7	8935.1	8453.3	9998.4	7806.4	5366.3
67.5°	14471.7	14273.4	13567.3	12943.2	12629.6	11275.6	9474.0	8217.6	8878.0	6047.4	3857.5
70°	15930.6	15728.1	15449.8	15955.5	16722.9	13654.5	9543.6	7259.2	6631.0	4019.5	2321.8
72.5°	14027.3	13932.8	14440.5	16570.2	19766.3	15097.8	8626.7	5285.3	3851.3	2133.8	1343.6
73°	12851.8	12831.1	13697.1	16139.3	19788.1	14875.6	8224.9	4912.5	3303.0	1887.7	1228.4
75°	5803.4	5970.6	7868.7	12327.5	17192.2	12257.9	5788.9	2818.1	1865.9	1304.2	927.3
77.5°	1394.5	1452.7	2462.0	5854.3	10857.1	7304.9	2622.9	1393.5	1193.1	921.0	677.0
80°	593.9	613.7	948.0	2162.9	5111.9	2941.7	1208.7	933.5	825.5	642.7	474.5
82.5°	330.2	351.0	537.9	981.3	2063.2	1003.1	737.2	650.0	543.1	387.3	308.4
85°	186.9	198.3	314.6	548.3	874.3	402.9	441.3	432.0	306.3	199.4	151.6
87.5°	88.3	95.5	151.6	254.4	342.7	157.8	224.3	247.1	192.1	121.5	78.9
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°	3263.6	3263.6	3263.6	3263.6	3263.6	3263.6	3263.6	3263.6	3263.6	3263.6
2.5°	3261.5	3280.2	3302.0	3313.4	3323.8	3336.3	3348.7	3348.7	3350.8	3351.8
5°	3238.7	3277.1	3311.3	3325.9	3329.0	3329.0	3325.9	3309.3	3294.7	3301.0
7.5°	3190.9	3247.0	3276.0	3270.9	3231.4	3185.7	3147.3	3100.6	3076.7	3072.5
10°	3122.4	3186.7	3191.9	3140.0	3042.4	2944.8	2863.8	2784.9	2747.5	2738.2
12.5°	3046.6	3105.8	3072.5	2965.6	2808.8	2666.5	2563.7	2483.8	2448.5	2439.1
15°	2985.3	3025.8	2941.7	2773.5	2576.2	2425.6	2340.5	2281.3	2256.4	2249.1
17.5°	2953.1	2961.4	2807.7	2580.3	2370.6	2244.9	2192.0	2164.0	2154.6	2149.4
20°	2968.7	2910.5	2680.0	2400.7	2202.4	2114.1	2101.7	2094.4	2092.3	2089.2
22.5°	3046.6	2895.0	2562.7	2230.4	2054.9	2016.5	2026.9	2025.9	2023.8	2021.7
25°	3185.7	2908.5	2448.5	2068.4	1931.4	1923.1	1941.7	1941.7	1933.4	1933.4
27.5°	3369.5	2936.5	2320.7	1914.7	1819.2	1820.3	1834.8	1830.6	1821.3	1815.1
30°	3593.8	2954.1	2171.2	1776.6	1714.3	1710.2	1714.3	1696.7	1668.7	1666.6
32.5°	3823.3	2932.3	1997.8	1654.1	1603.2	1593.9	1590.8	1565.9	1533.7	1524.3
35°	4030.9	2852.4	1821.3	1556.5	1497.3	1476.6	1491.1	1482.8	1453.7	1446.4
37.5°	4182.5	2703.9	1662.4	1470.3	1421.5	1416.3	1425.7	1428.8	1394.5	1387.3
40°	4284.3	2502.5	1526.4	1397.6	1407.0	1387.3	1356.1	1334.3	1323.9	1320.8
42.5°	4366.3	2292.7	1412.2	1363.4	1410.1	1353.0	1285.5	1250.2	1268.9	1277.2
45°	4460.8	2088.2	1316.6	1320.8	1394.5	1313.5	1236.7	1202.4	1209.7	1211.8
47.5°	4590.6	1838.9	1213.8	1252.3	1342.6	1286.5	1206.6	1157.8	1123.5	1107.9
50°	4770.3	1544.0	1106.9	1175.4	1291.7	1266.8	1159.9	1107.9	1044.6	1030.1
52.5°	4894.9	1268.9	1018.6	1111.1	1246.0	1227.3	1122.5	1055.0	988.5	976.1
55°	4827.4	1053.9	941.8	1039.4	1185.8	1178.5	1091.3	1001.0	949.1	938.7
57.5°	4489.9	917.9	882.6	971.9	1112.1	1137.0	1049.8	955.3	917.9	910.6
60°	3846.1	832.8	845.2	926.2	1051.9	1095.5	1008.3	930.4	905.5	900.3
62.5°	2984.3	775.7	817.2	893.0	1005.1	1066.4	985.4	927.3	917.9	911.7
65°	2138.0	730.0	787.1	859.8	962.6	1039.4	977.1	923.1	925.2	920.0
67.5°	1452.7	689.5	750.7	822.4	921.0	1015.5	965.7	908.6	934.5	928.3
70°	1016.6	650.0	708.2	774.6	869.1	982.3	944.9	886.8	884.7	859.8
72.5°	793.3	598.1	650.0	708.2	802.7	935.6	903.4	838.0	803.7	777.7
73°	757.0	585.6	635.5	693.6	788.1	924.1	892.0	824.5	786.0	762.2
75°	626.1	531.6	577.3	629.2	725.8	870.2	835.9	763.2	714.4	699.9
77.5°	492.2	454.8	498.4	545.1	639.6	791.2	752.8	683.2	656.2	643.8
80°	364.5	376.9	415.3	456.9	554.5	707.1	672.9	603.3	723.7	693.6
82.5°	256.5	285.6	320.9	358.2	465.2	625.1	583.6	511.9	529.6	440.3
85°	151.6	186.9	220.1	252.3	335.4	518.1	481.8	408.1	334.4	318.8
87.5°	88.3	103.8	113.2	146.4	230.5	390.4	339.5	302.2	173.4	117.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)