

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: P194122

Luminaire Tested: **GLEON-AF-04-LED-E1-T4W-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21343 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

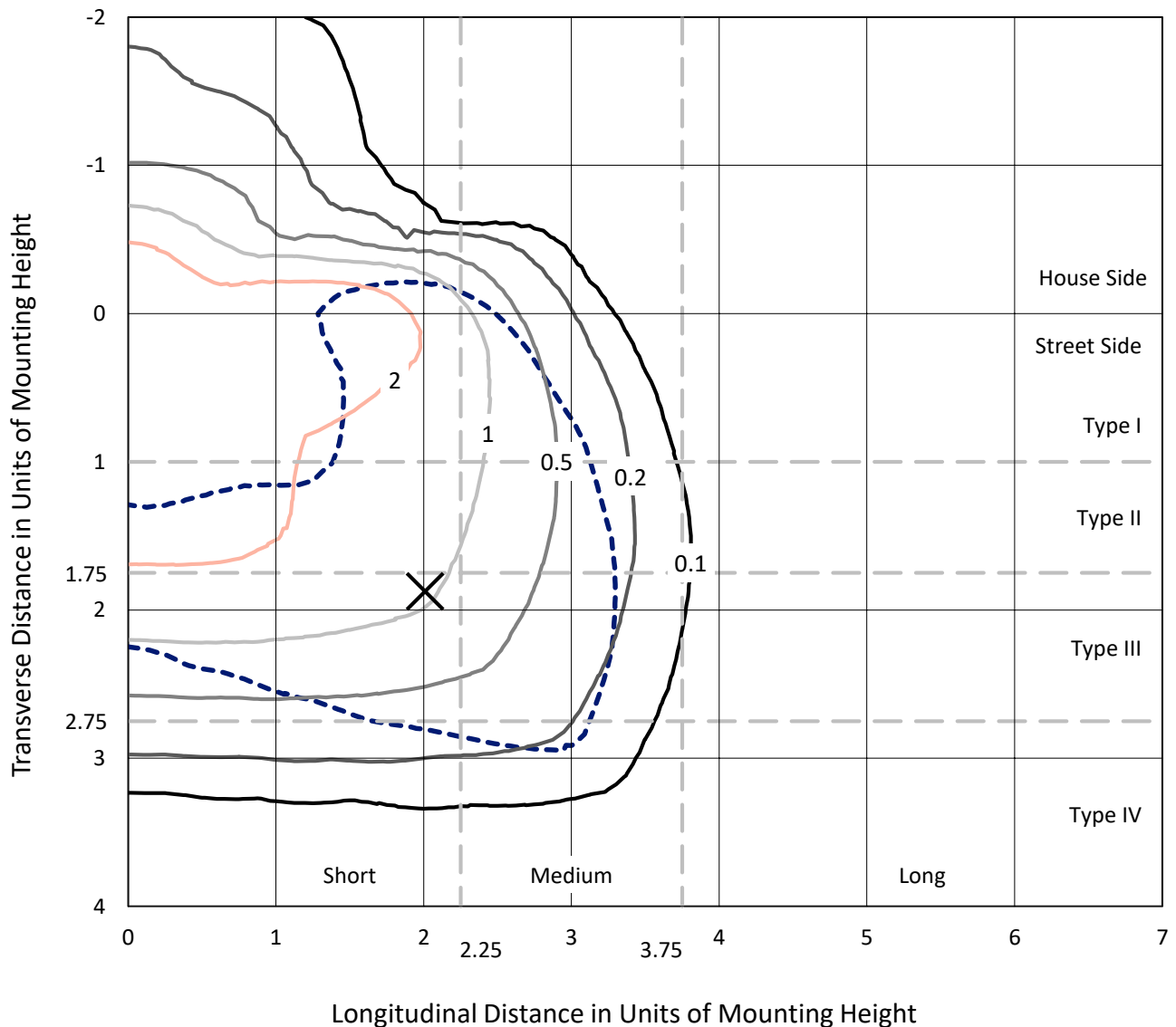
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

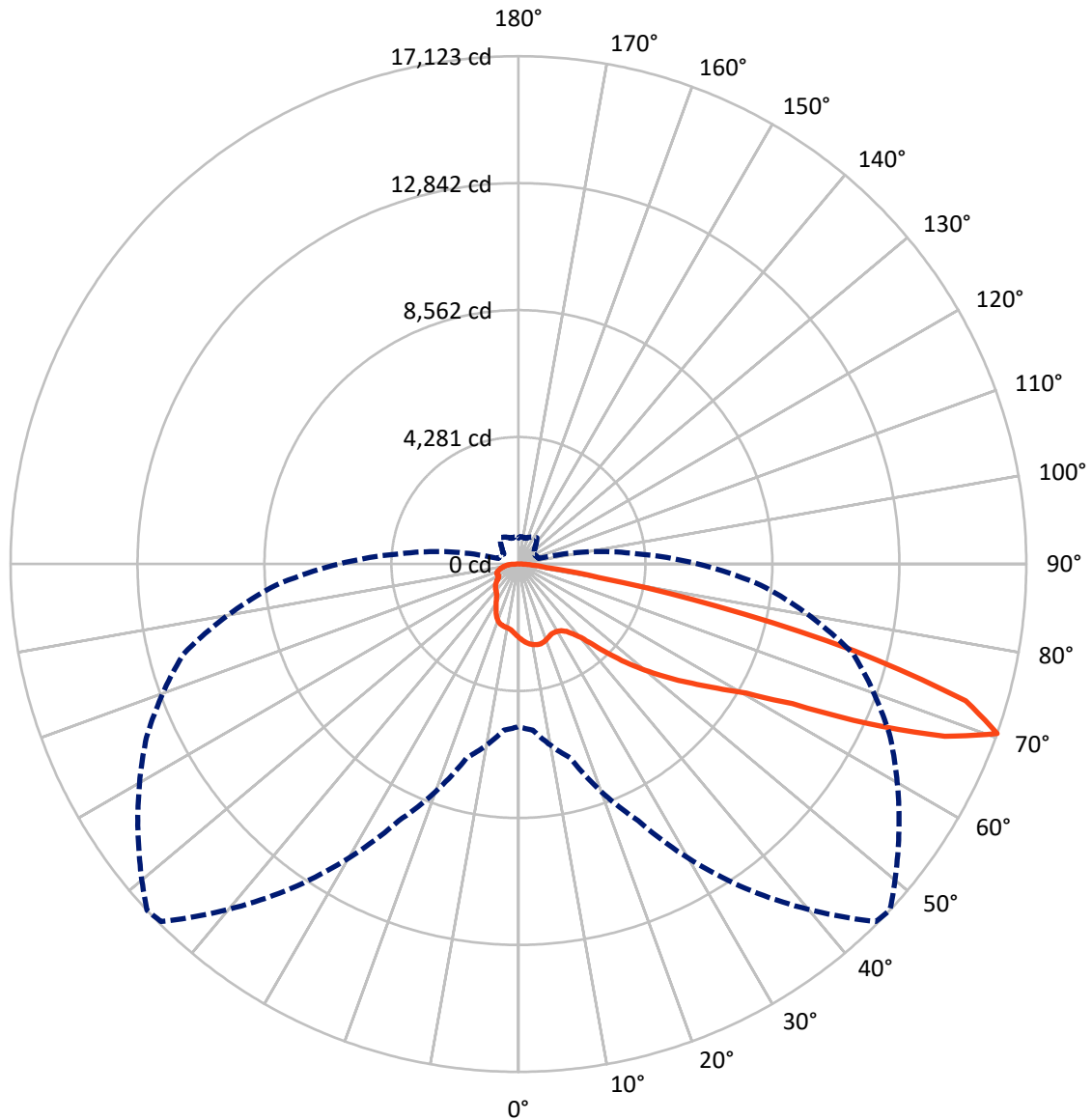


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4452.6	0.0	4452.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	16890.4	0.0	16890.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	21343.0	0.0	21343.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.3	1.1
10°-20°	696.1	3.3
20°-30°	1028.0	4.8
30°-40°	1494.2	7.0
40°-50°	2689.0	12.6
50°-60°	4658.4	21.8
60°-70°	6648.9	31.2
70°-80°	3413.2	16.0
80°-90°	477.9	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°	21343.0	100.0
0°-180°	21343.0	100.0



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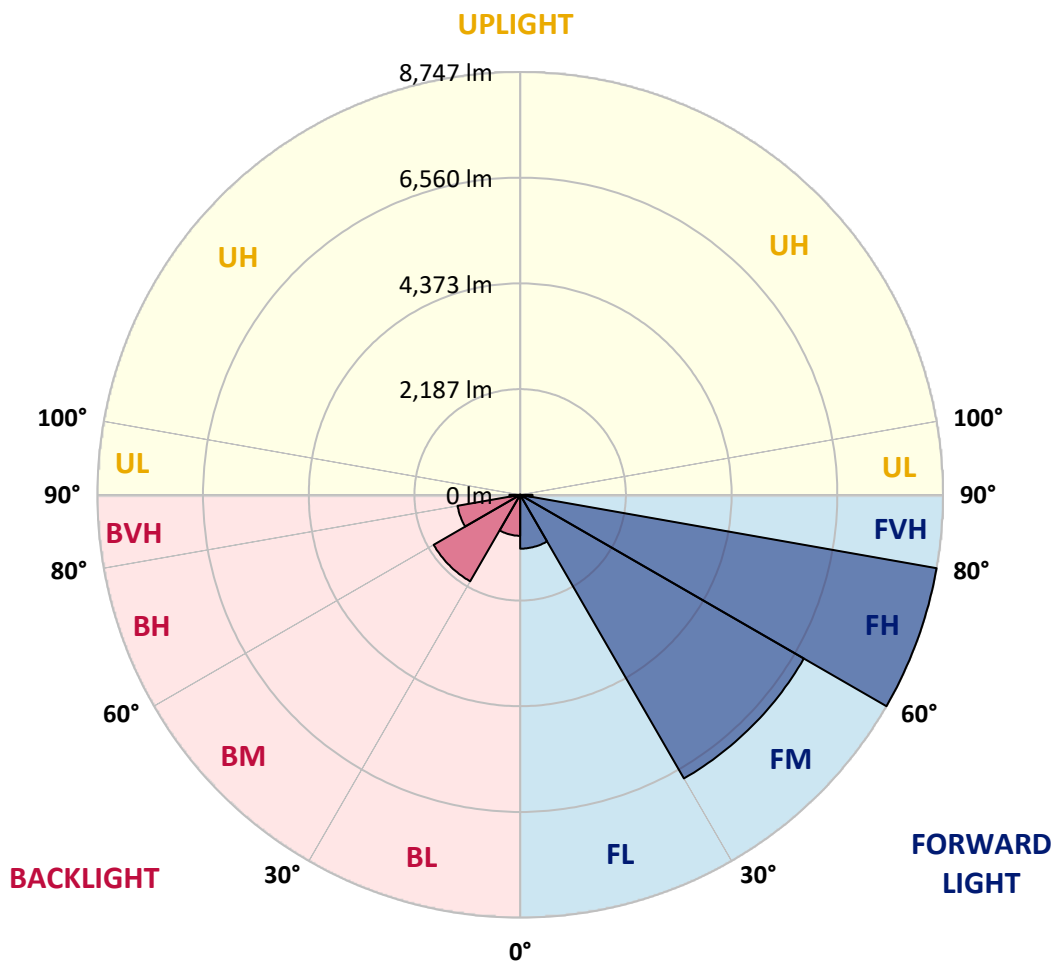
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1113.6	5.2			
FM	(30°-60°)	6774.9	31.7			
FH	(60°-80°)	8746.9	41.0			G4/12000
FVH	(80°-90°)	255.0	1.2			G3/500
BL	(0°-30°)	847.8	4.0	B2/1000		
BM	(30°-60°)	2066.7	9.7	B2/2500		
BH	(60°-80°)	1315.2	6.2	B3/2500		G3/2500
BVH	(80°-90°)	222.9	1.0			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°	47°	55°	65°	75°	85°
0°	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5
2.5°	2621.8	2616.6	2614.6	2610.4	2605.2	2579.2	2574.1	2555.4	2529.4	2502.4	2474.4
5°	2794.2	2793.1	2781.7	2761.0	2727.7	2670.6	2657.1	2611.4	2550.2	2491.0	2431.8
7.5°	2945.8	2936.4	2914.6	2873.1	2815.0	2737.1	2718.4	2655.0	2570.9	2490.0	2410.0
10°	3056.9	3051.7	3003.9	2946.8	2871.0	2784.8	2763.0	2692.4	2600.0	2497.2	2397.5
12.5°	3120.2	3109.8	3054.8	2986.3	2895.9	2811.8	2790.0	2718.4	2614.6	2497.2	2379.9
15°	3116.1	3108.8	3053.8	2979.0	2887.6	2813.9	2794.2	2722.5	2611.4	2486.8	2357.0
17.5°	3033.0	3036.1	2989.4	2915.7	2840.9	2784.8	2767.2	2700.7	2590.7	2466.1	2330.0
20°	2887.6	2902.2	2871.0	2805.6	2764.1	2725.7	2714.2	2658.2	2558.5	2436.0	2301.0
22.5°	2742.3	2755.8	2743.3	2688.3	2682.0	2659.2	2653.0	2612.5	2530.4	2417.3	2283.3
25°	2635.3	2647.8	2645.7	2597.9	2616.6	2615.6	2610.4	2590.7	2524.2	2417.3	2286.4
27.5°	2606.2	2610.4	2606.2	2562.6	2588.6	2609.4	2605.2	2602.1	2542.9	2447.4	2325.9
30°	2705.9	2699.7	2667.5	2579.2	2603.1	2632.2	2628.1	2630.1	2599.0	2526.3	2414.2
32.5°	3103.6	3075.6	2973.8	2725.7	2662.3	2677.9	2680.0	2714.2	2719.4	2647.8	2551.2
35°	3698.6	3667.4	3535.6	3118.1	2846.1	2792.1	2792.1	2844.0	2875.2	2822.2	2764.1
37.5°	4328.9	4294.6	4224.0	3662.2	3232.4	2990.4	2985.2	3021.6	3066.2	3078.7	3093.2
40°	5045.3	5009.0	5028.7	4272.8	3771.3	3334.1	3260.4	3234.4	3354.9	3434.8	3551.1
42.5°	5829.3	5812.7	5819.9	4952.9	4384.9	3848.1	3743.2	3609.3	3754.7	3896.9	4140.9
45°	6555.1	6569.6	6562.3	5680.8	5068.2	4475.3	4364.2	4104.6	4246.8	4490.8	4888.5
47.5°	7190.5	7130.3	7223.8	6476.2	5833.4	5177.2	5040.1	4692.3	4836.6	5137.7	5810.6
50°	7962.0	7953.7	7816.7	7537.3	6758.6	5882.2	5702.6	5299.7	5524.0	5942.4	6972.5
52.5°	8773.0	8622.4	8496.8	8362.8	7739.8	6604.9	6384.8	5905.1	6331.8	6858.3	8388.8
55°	8939.1	8871.6	9027.4	9252.7	8685.8	7355.6	7099.2	6664.1	7241.4	7904.9	10022.1
57.5°	9294.2	9293.2	9615.1	10016.9	9659.7	8152.0	7893.5	7581.0	8264.2	9104.2	11756.1
60°	9534.1	9601.6	10199.7	10979.5	10616.0	9072.0	8834.2	8639.0	9427.1	10444.7	13371.8
62.5°	9659.7	9751.1	10567.2	11369.9	11968.0	10603.6	10365.8	10084.4	10966.0	11915.0	14316.7
65°	9137.4	9317.1	10510.1	11707.3	13151.7	13086.3	12979.3	12485.1	12890.0	13076.9	13975.1
67.5°	7692.1	7875.8	9265.2	11392.7	13996.9	15480.7	15503.5	14659.4	14073.7	13176.6	11749.9
70°	5480.4	5624.7	6774.2	9551.7	13353.1	17045.5	17123.3	15661.4	13838.0	11685.5	8209.2
72.5°	2602.1	2690.4	3778.5	6216.6	10596.3	15617.7	15768.3	14382.1	11766.5	8651.5	4478.4
75°	956.3	983.3	1277.2	2644.7	6146.0	11517.3	11694.9	10309.7	7800.0	4307.1	1706.0
77.5°	573.2	590.8	716.5	1116.2	2417.3	6583.1	6845.8	5607.1	3408.9	1603.2	839.0
80°	400.8	413.3	514.0	694.7	1142.2	2508.6	2742.3	2288.5	1358.2	1014.5	610.5
82.5°	271.0	277.2	361.3	469.3	759.0	896.1	966.7	1017.6	915.8	754.9	387.3
85°	177.6	183.8	245.0	309.4	482.8	463.1	473.5	599.1	668.7	512.9	214.9
87.5°	101.8	105.9	147.4	165.1	236.7	196.2	198.3	315.7	427.8	345.8	130.8
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°	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5	2476.5
2.5°	2467.1	2453.6	2423.5	2404.8	2387.2	2383.0	2375.7	2374.7	2373.7	2373.7	2370.5
5°	2412.1	2389.2	2342.5	2316.5	2294.7	2292.7	2291.6	2296.8	2298.9	2301.0	2297.9
7.5°	2376.8	2345.6	2287.5	2250.1	2224.1	2217.9	2228.3	2252.2	2267.7	2274.0	2270.9
10°	2355.0	2316.5	2249.1	2208.6	2186.8	2183.6	2197.1	2225.2	2257.4	2269.8	2268.8
12.5°	2330.0	2286.4	2214.8	2172.2	2159.8	2166.0	2183.6	2209.6	2242.8	2262.6	2263.6
15°	2305.1	2254.2	2180.5	2143.1	2138.0	2146.3	2162.9	2182.6	2208.6	2228.3	2230.4
17.5°	2275.0	2222.1	2148.3	2109.9	2105.8	2109.9	2111.0	2121.3	2138.0	2156.6	2161.8
20°	2242.8	2188.8	2112.0	2073.6	2054.9	2038.3	2019.6	2021.7	2026.8	2045.5	2049.7
22.5°	2220.0	2166.0	2084.0	2031.0	1981.2	1931.3	1893.9	1888.7	1890.8	1906.4	1911.6
25°	2222.1	2164.9	2076.7	1985.3	1876.3	1796.3	1746.5	1738.2	1737.2	1748.6	1755.8
27.5°	2262.6	2205.4	2103.7	1938.6	1762.1	1643.7	1590.7	1584.5	1576.2	1579.3	1587.6
30°	2352.9	2299.9	2169.1	1890.8	1638.5	1494.2	1439.1	1432.9	1421.5	1416.3	1422.5
32.5°	2500.3	2456.7	2264.6	1845.1	1514.9	1366.5	1310.4	1296.9	1289.6	1283.4	1288.6
35°	2745.4	2726.7	2392.3	1795.3	1405.9	1267.8	1216.9	1196.2	1185.8	1197.2	1205.5
37.5°	3129.6	3140.0	2559.5	1717.4	1321.8	1202.4	1159.8	1135.9	1120.4	1129.7	1139.1
40°	3673.7	3680.9	2744.3	1607.4	1249.1	1164.0	1118.3	1096.5	1074.7	1058.1	1057.0
42.5°	4388.0	4314.3	2926.1	1487.9	1165.0	1140.1	1089.2	1062.2	1029.0	983.3	974.0
45°	5235.3	4976.8	3064.2	1350.9	1070.5	1111.0	1057.0	1019.7	967.7	917.9	912.7
47.5°	6211.4	5688.1	3131.6	1208.6	982.3	1068.5	1017.6	958.4	893.0	868.1	864.9
50°	7403.4	6532.2	3163.8	1070.5	905.4	1012.4	960.5	890.9	835.9	830.7	827.6
52.5°	8760.5	7547.7	3174.2	957.4	842.1	939.7	913.7	846.3	802.6	806.8	806.8
55°	10181.0	8596.5	3033.0	875.3	784.0	864.9	882.6	828.6	792.3	808.9	815.1
57.5°	11485.1	9525.8	2588.6	812.0	728.9	807.8	871.2	845.2	820.3	887.8	891.9
60°	12486.1	10075.1	1933.4	754.9	688.4	788.1	901.3	908.6	914.8	1075.7	1097.5
62.5°	12695.8	9892.3	1329.1	710.2	669.7	804.7	956.3	957.4	950.1	1062.2	1075.7
65°	11733.3	8736.6	966.7	685.3	654.2	834.8	1003.0	981.2	933.5	1018.6	993.7
67.5°	9318.1	6582.1	804.7	666.6	631.3	832.8	1052.9	1003.0	924.1	997.8	957.4
70°	6048.4	3980.0	716.5	651.0	604.3	793.3	1082.0	1001.0	897.1	928.3	880.5
72.5°	2951.0	1779.7	657.3	628.2	576.3	738.3	1080.9	982.3	869.1	867.0	841.1
75°	1154.6	815.1	603.3	593.9	528.5	676.0	1051.8	955.3	835.9	802.6	793.3
77.5°	676.0	581.5	534.7	543.1	471.4	613.7	1009.3	908.6	790.2	750.7	740.3
80°	492.2	435.1	455.8	469.3	402.9	551.4	952.2	851.4	739.3	759.0	744.5
82.5°	315.7	280.4	369.7	383.1	335.4	488.0	889.9	791.2	667.7	606.4	591.9
85°	160.9	177.6	275.2	291.8	258.5	400.8	814.1	711.3	586.7	504.6	512.9
87.5°	90.3	121.5	175.5	196.2	182.7	308.4	660.4	586.7	478.7	389.4	342.7
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)