

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: P269280

Luminaire Tested: **GLEON-AF-04-LED-E1-T4W-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269280
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-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 22724.2 lumens
Efficiency: N/A
Efficacy: 88.1 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

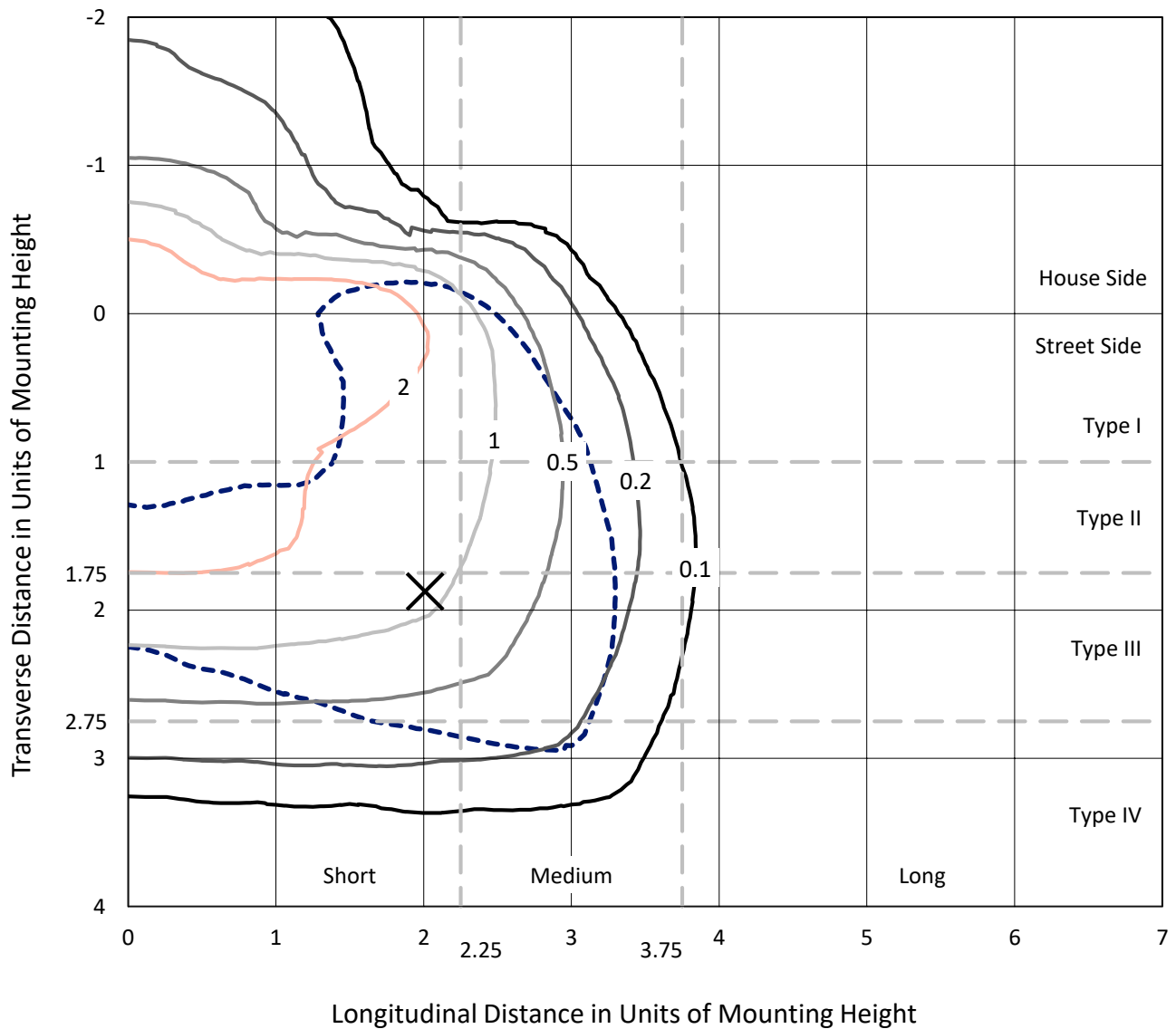


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

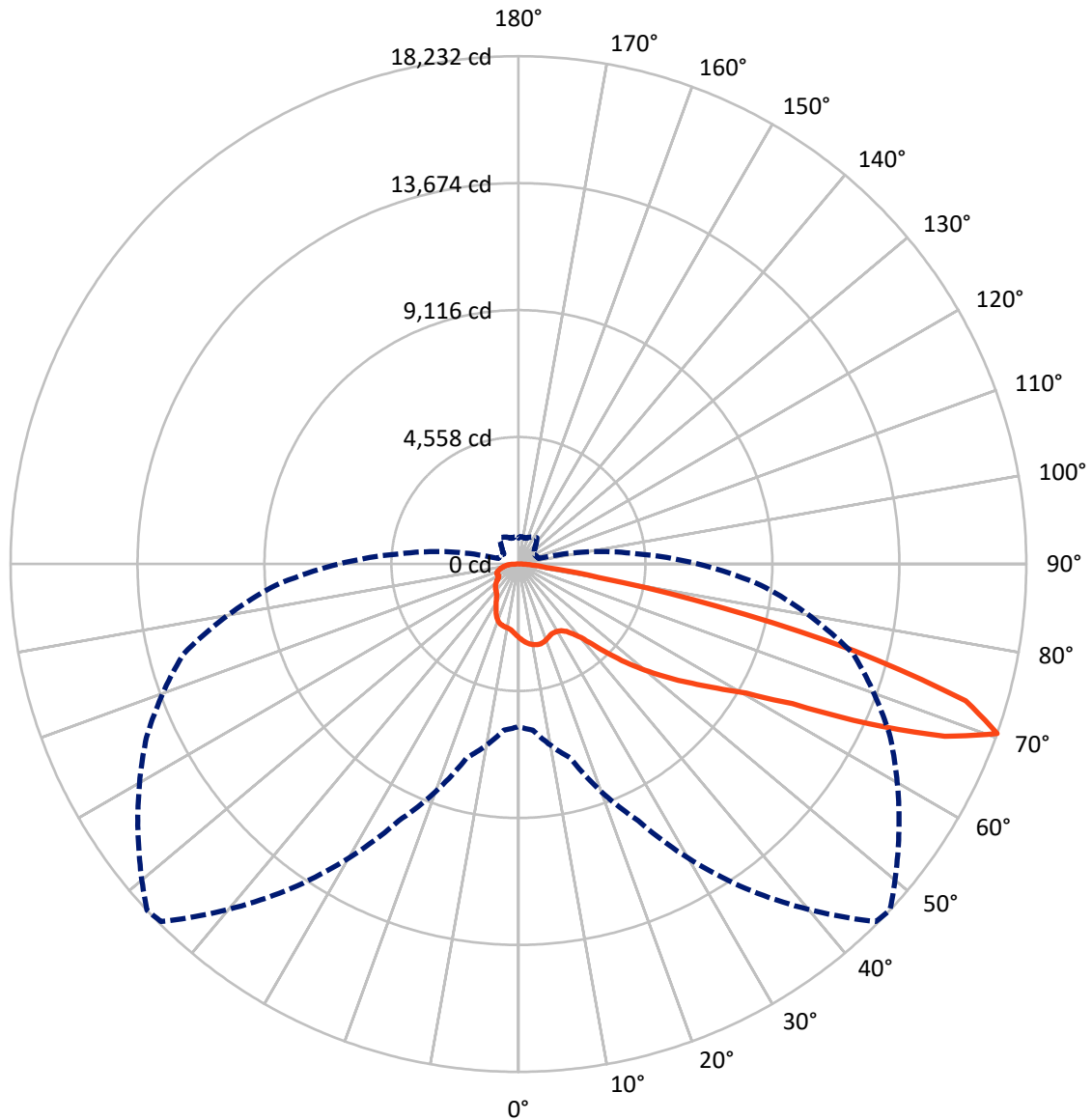


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - Semi-Cutoff

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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	4740.7	0.0	4740.7
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	17983.5	0.0	17983.5
	% Fixture	79.1	0.0	79.1
Total	Lumens	22724.2	0.0	22724.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.6	1.1
10°-20°	741.2	3.3
20°-30°	1094.5	4.8
30°-40°	1590.9	7.0
40°-50°	2863.0	12.6
50°-60°	4959.9	21.8
60°-70°	7079.2	31.2
70°-80°	3634.1	16.0
80°-90°	508.8	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°	22724.2	100.0
0°-180°	22724.2	100.0

Coefficient of Utilization



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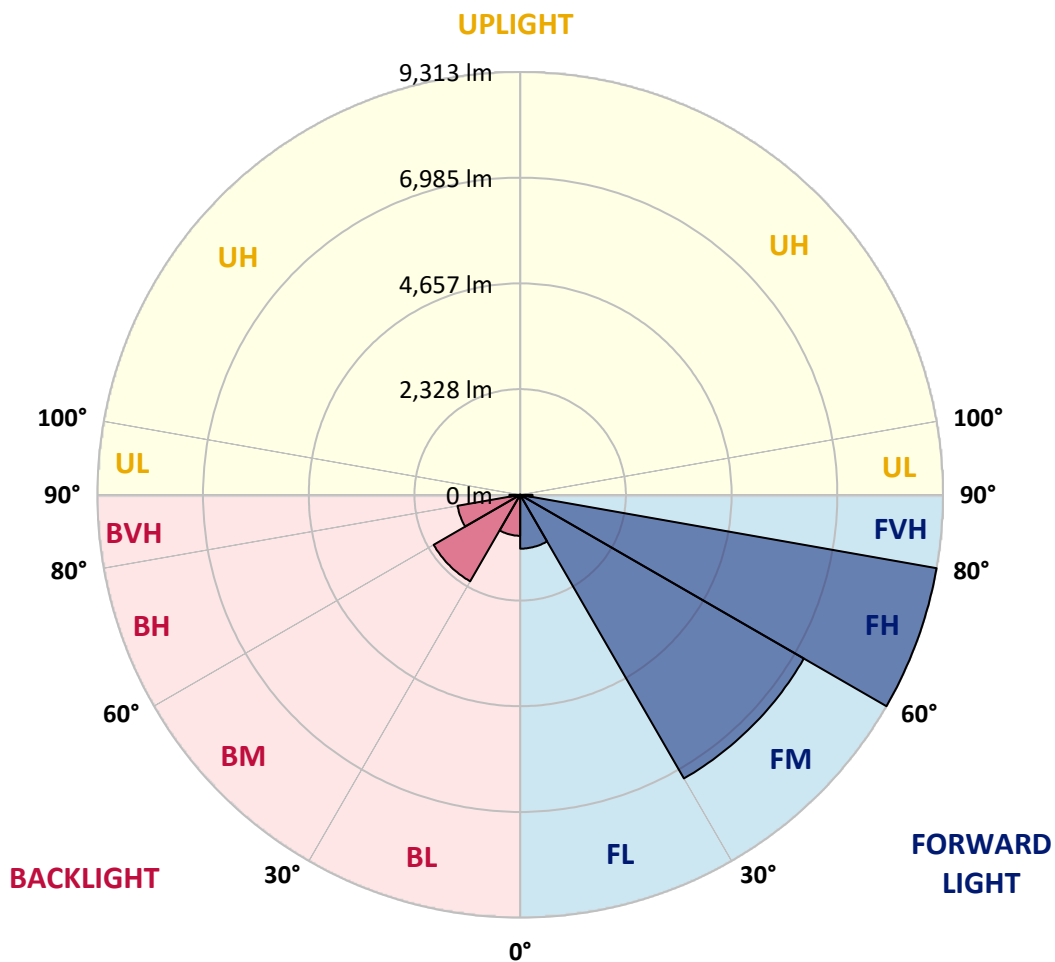
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1185.7	5.2			
FM	(30°-60°)	7213.3	31.7			
FH	(60°-80°)	9313.0	41.0			G4/12000
FVH	(80°-90°)	271.5	1.2			G3/500
BL	(0°-30°)	902.7	4.0	B2/1000		
BM	(30°-60°)	2200.5	9.7	B2/2500		
BH	(60°-80°)	1400.3	6.2	B3/2500		G3/2500
BVH	(80°-90°)	237.3	1.0			G3/500
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°	2636.7	2636.7	2636.7	2636.7	2636.7	2636.7	2636.7	2636.7	2636.7	2636.7	2636.7
2.5°	2791.6	2786.0	2783.8	2779.4	2773.7	2746.2	2740.6	2720.7	2693.1	2664.4	2634.5
5°	2974.9	2973.8	2961.7	2939.7	2904.3	2843.4	2829.1	2780.4	2715.1	2652.2	2589.2
7.5°	3136.4	3126.6	3103.3	3059.1	2997.1	2914.2	2894.2	2826.8	2737.3	2651.1	2566.0
10°	3254.6	3249.2	3198.3	3137.5	3056.8	2965.0	2941.9	2866.8	2768.2	2658.9	2552.8
12.5°	3322.1	3311.2	3252.6	3179.6	3083.3	2993.8	2970.5	2894.2	2783.8	2658.9	2533.8
15°	3317.7	3310.0	3251.3	3171.7	3074.4	2995.9	2974.9	2898.7	2780.4	2647.8	2509.5
17.5°	3229.2	3232.6	3182.9	3104.4	3024.8	2965.0	2946.4	2875.6	2758.3	2625.7	2480.8
20°	3074.4	3090.0	3056.8	2987.1	2942.9	2902.1	2889.8	2830.2	2724.1	2593.5	2449.9
22.5°	2919.8	2934.1	2920.8	2862.3	2855.6	2831.3	2824.7	2781.5	2694.1	2573.7	2431.2
25°	2805.9	2819.2	2816.9	2766.2	2786.0	2784.8	2779.4	2758.3	2687.5	2573.7	2434.3
27.5°	2775.0	2779.4	2775.0	2728.5	2756.1	2778.2	2773.7	2770.6	2707.5	2605.8	2476.4
30°	2881.0	2874.3	2840.1	2746.2	2771.6	2802.5	2798.1	2800.3	2767.1	2689.7	2570.4
32.5°	3304.4	3274.6	3166.3	2902.1	2834.6	2851.2	2853.3	2889.8	2895.3	2819.2	2716.4
35°	3937.9	3904.8	3764.3	3320.0	3030.3	2972.9	2972.9	3028.0	3061.2	3004.9	2942.9
37.5°	4609.1	4572.6	4497.4	3899.3	3441.5	3184.0	3178.5	3217.1	3264.7	3277.9	3293.5
40°	5371.9	5333.1	5354.2	4549.2	4015.3	3549.9	3471.4	3443.7	3572.0	3657.1	3781.0
42.5°	6206.5	6188.9	6196.6	5273.4	4668.8	4097.1	3985.5	3842.9	3997.6	4149.1	4408.9
45°	6979.3	6994.7	6987.0	6048.4	5396.2	4764.9	4646.7	4370.3	4521.7	4781.5	5204.9
47.5°	7655.9	7591.8	7691.3	6895.3	6210.9	5512.2	5366.4	4996.0	5149.7	5470.1	6186.5
50°	8477.3	8468.4	8322.5	8025.2	7196.1	6263.0	6071.6	5642.8	5881.6	6327.0	7423.8
52.5°	9340.8	9180.4	9046.7	8904.0	8240.7	7032.3	6798.0	6287.1	6741.6	7302.1	8931.7
55°	9517.6	9445.8	9611.5	9851.5	9248.0	7831.7	7558.6	7095.4	7710.1	8416.5	10670.6
57.5°	9895.6	9894.7	10237.4	10665.1	10284.9	8679.7	8404.4	8071.6	8799.0	9693.4	12517.0
60°	10151.0	10222.9	10859.7	11690.1	11303.1	9659.1	9406.0	9198.1	10037.2	11120.7	14237.1
62.5°	10284.9	10382.2	11251.1	12105.6	12742.5	11289.8	11036.7	10737.0	11675.6	12686.1	15243.2
65°	9728.7	9920.1	11190.2	12465.1	14002.8	13933.2	13819.3	13293.1	13724.2	13923.2	14879.4
67.5°	8189.8	8385.6	9864.7	12130.1	14902.7	16482.6	16506.8	15608.1	14984.5	14029.3	12510.3
70°	5835.0	5988.7	7212.5	10169.9	14217.2	18148.5	18231.6	16674.9	14733.6	12441.7	8740.4
72.5°	2770.6	2864.4	4023.1	6618.9	11282.1	16628.4	16788.8	15312.9	12528.0	9211.4	4768.3
75°	1018.1	1047.0	1359.9	2815.7	6543.8	12262.8	12451.8	10976.8	8304.8	4585.8	1816.5
77.5°	610.3	629.1	762.8	1188.5	2573.7	7009.1	7288.8	5970.0	3629.5	1707.0	893.3
80°	426.8	440.0	547.2	739.7	1216.0	2671.0	2919.8	2436.7	1446.0	1080.1	650.1
82.5°	288.5	295.2	384.7	499.6	808.1	954.1	1029.3	1083.4	975.1	803.8	412.3
85°	189.1	195.7	260.9	329.5	514.1	493.1	504.0	637.8	711.9	546.1	228.9
87.5°	108.3	112.7	156.9	175.8	252.1	208.9	211.1	336.1	455.5	368.1	139.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2636.7	2636.7	2636.7	2636.7	2636.7	2636.7	2636.7	2636.7	2636.7	2636.7	2636.7
2.5°	2626.7	2612.5	2580.3	2560.3	2541.7	2537.3	2529.4	2528.4	2527.3	2527.3	2524.0
5°	2568.2	2543.9	2494.1	2466.4	2443.2	2441.1	2439.9	2445.5	2447.7	2449.9	2446.5
7.5°	2530.5	2497.4	2435.6	2395.7	2368.1	2361.5	2372.6	2397.9	2414.6	2421.1	2417.8
10°	2507.3	2466.4	2394.6	2351.6	2328.2	2325.0	2339.4	2369.2	2403.4	2416.7	2415.6
12.5°	2480.8	2434.3	2358.1	2312.7	2299.5	2306.2	2325.0	2352.7	2388.0	2409.0	2410.2
15°	2454.3	2400.1	2321.6	2281.9	2276.3	2285.2	2302.8	2323.8	2351.6	2372.6	2374.7
17.5°	2422.2	2365.9	2287.4	2246.4	2242.0	2246.4	2247.6	2258.6	2276.3	2296.2	2301.7
20°	2388.0	2330.6	2248.6	2207.8	2187.8	2170.1	2150.4	2152.5	2158.0	2177.9	2182.3
22.5°	2363.6	2306.2	2218.9	2162.4	2109.4	2056.3	2016.5	2010.9	2013.2	2029.8	2035.3
25°	2365.9	2305.1	2211.1	2113.8	1997.7	1912.6	1859.5	1850.7	1849.6	1861.7	1869.5
27.5°	2409.0	2348.2	2239.8	2064.0	1876.1	1750.1	1693.7	1687.0	1678.3	1681.5	1690.4
30°	2505.2	2448.8	2309.5	2013.2	1744.6	1590.9	1532.2	1525.6	1513.5	1508.0	1514.6
32.5°	2662.1	2615.8	2411.2	1964.6	1612.9	1454.8	1395.2	1380.9	1373.1	1366.4	1372.0
35°	2923.1	2903.1	2547.1	1911.5	1496.8	1349.9	1295.6	1273.5	1262.6	1274.7	1283.6
37.5°	3332.2	3343.1	2725.2	1828.6	1407.4	1280.3	1234.9	1209.5	1192.9	1202.8	1212.8
40°	3911.4	3919.1	2921.9	1711.5	1330.0	1239.3	1190.7	1167.4	1144.3	1126.6	1125.4
42.5°	4672.1	4593.6	3115.4	1584.3	1240.4	1213.9	1159.7	1131.0	1095.7	1047.0	1037.1
45°	5574.2	5298.8	3262.5	1438.2	1139.8	1183.0	1125.4	1085.6	1030.4	977.3	971.7
47.5°	6613.3	6056.2	3334.2	1286.8	1045.8	1137.7	1083.4	1020.5	950.8	924.3	920.9
50°	7882.4	6954.9	3368.6	1139.8	964.1	1077.8	1022.6	948.6	890.0	884.4	881.1
52.5°	9327.6	8036.1	3379.7	1019.2	896.6	1000.5	972.9	901.0	854.6	859.0	859.0
55°	10839.8	9152.8	3229.2	932.0	834.6	920.9	939.6	882.2	843.5	861.2	867.9
57.5°	12228.4	10142.3	2756.1	864.4	776.0	860.0	927.6	899.9	873.4	945.2	949.7
60°	13294.1	10727.1	2058.6	803.8	732.9	839.0	959.6	967.4	974.0	1145.3	1168.5
62.5°	13517.4	10532.4	1415.1	756.3	713.1	856.9	1018.1	1019.2	1011.6	1131.0	1145.3
65°	12492.5	9301.9	1029.3	729.7	696.5	888.9	1067.9	1044.6	993.9	1084.6	1058.1
67.5°	9921.2	7008.0	856.9	709.8	672.2	886.6	1121.1	1067.9	984.0	1062.4	1019.2
70°	6439.8	4237.6	762.8	693.2	643.5	844.6	1151.9	1065.7	955.2	988.3	937.6
72.5°	3141.9	1895.0	699.8	668.9	613.6	786.0	1150.9	1045.8	925.3	923.1	895.5
75°	1229.4	867.9	642.3	632.3	562.7	719.7	1119.8	1017.2	890.0	854.6	844.6
77.5°	719.7	619.1	569.3	578.1	502.0	653.3	1074.6	967.4	841.4	799.3	788.3
80°	524.0	463.3	485.4	499.6	428.9	587.0	1013.7	906.5	787.2	808.1	792.7
82.5°	336.1	298.4	393.5	407.9	357.0	519.6	947.4	842.4	710.9	645.6	630.2
85°	171.3	189.1	292.9	310.6	275.3	426.8	866.8	757.4	624.6	537.2	546.1
87.5°	96.2	129.4	186.8	208.9	194.6	328.3	703.2	624.6	509.7	414.6	364.8
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)