

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: P269277

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269277
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20716.1 lumens
Efficiency: N/A
Efficacy: 92.1 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

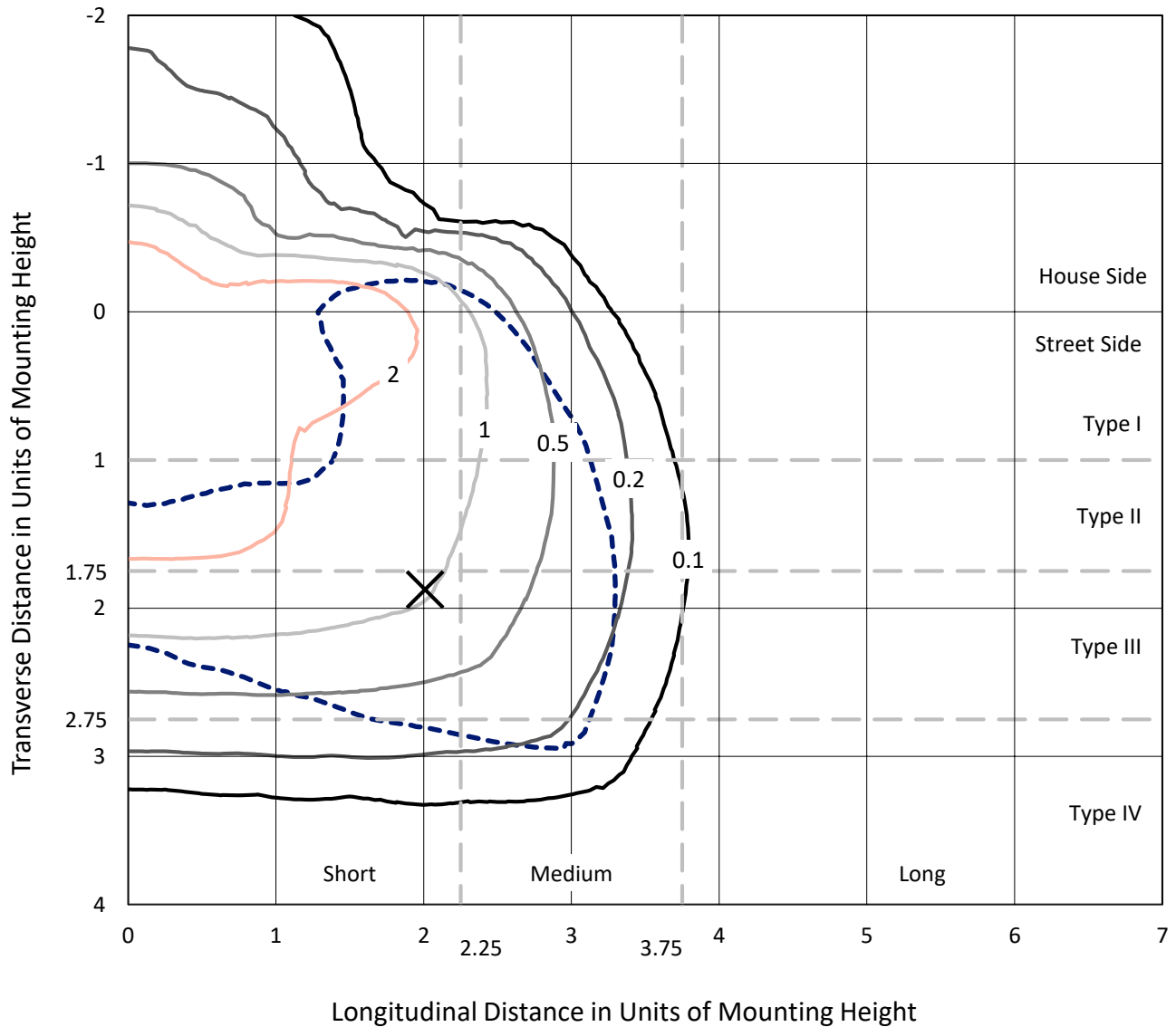
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

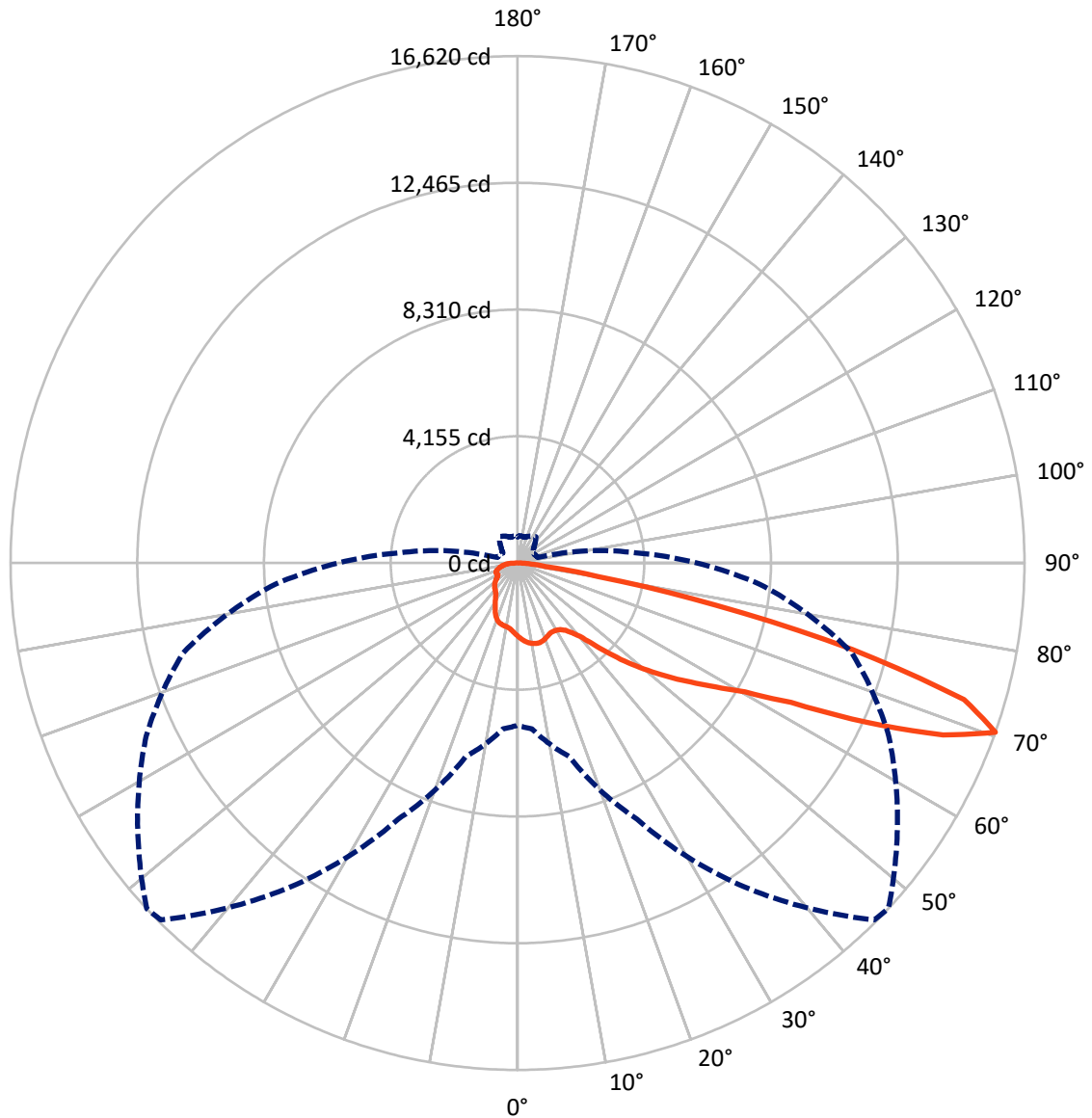
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	4321.8	0.0	4321.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	16394.3	0.0	16394.3
	% Fixture	79.1	0.0	79.1
Total	Lumens	20716.1	0.0	20716.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.3	1.1
10°-20°	675.7	3.3
20°-30°	997.8	4.8
30°-40°	1450.3	7.0
40°-50°	2610.0	12.6
50°-60°	4521.6	21.8
60°-70°	6453.6	31.2
70°-80°	3312.9	16.0
80°-90°	463.8	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°	20716.1	100.0
0°-180°	20716.1	100.0

Coefficient of Utilization



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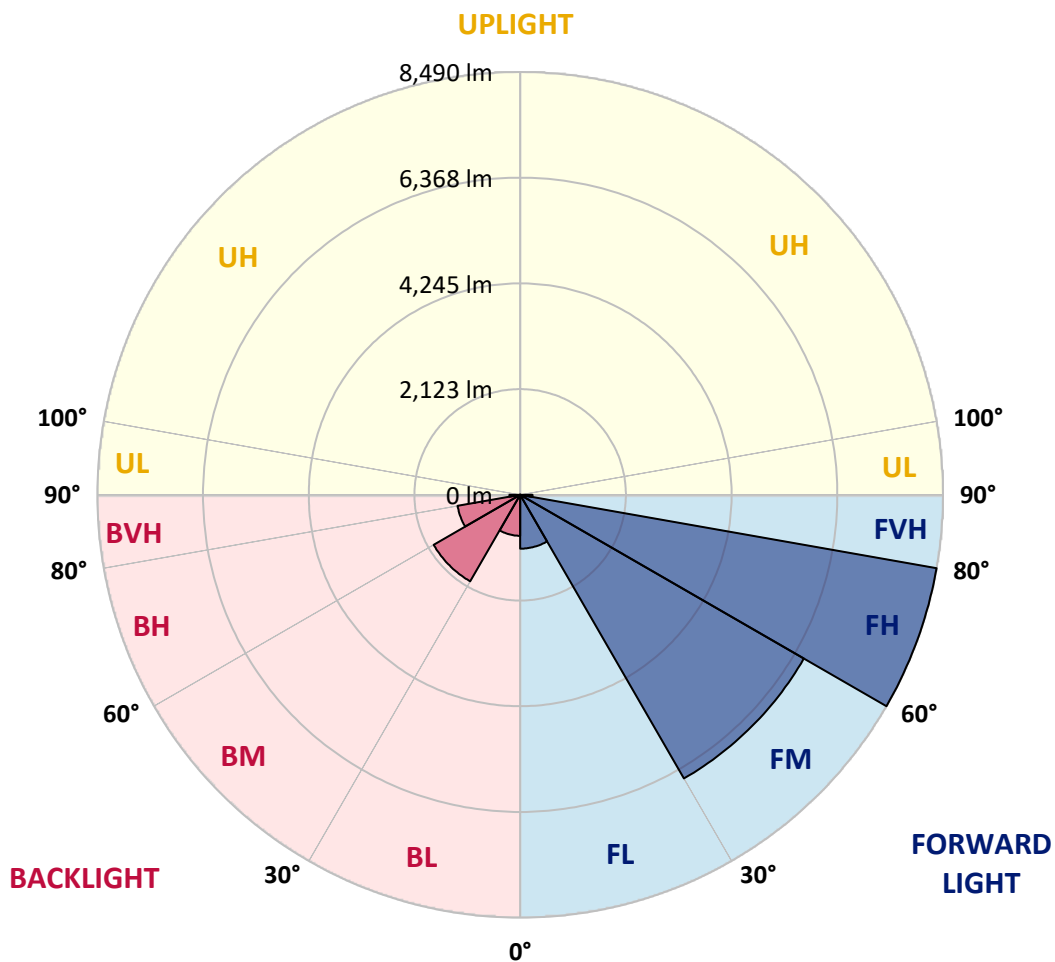
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1080.9	5.2			
FM	(30°-60°)	6575.9	31.7			
FH	(60°-80°)	8490.0	41.0			G4/12000
FVH	(80°-90°)	247.5	1.2			G3/500
BL	(0°-30°)	822.9	4.0	B2/1000		
BM	(30°-60°)	2006.0	9.7	B2/2500		
BH	(60°-80°)	1276.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	216.3	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°	2403.8	2403.8	2403.8	2403.8	2403.8	2403.8	2403.8	2403.8	2403.8	2403.8	2403.8
2.5°	2544.8	2539.8	2537.7	2533.7	2528.6	2503.4	2498.5	2480.3	2455.1	2428.8	2401.7
5°	2712.2	2711.2	2700.0	2679.9	2647.7	2592.1	2579.0	2534.7	2475.3	2417.8	2360.3
7.5°	2859.2	2850.2	2829.0	2788.7	2732.3	2656.6	2638.5	2577.1	2495.4	2416.8	2339.1
10°	2967.1	2962.2	2915.7	2860.3	2786.7	2703.0	2681.9	2613.3	2523.7	2423.8	2327.1
12.5°	3028.5	3018.6	2965.0	2898.7	2810.8	2729.2	2708.1	2638.5	2537.7	2423.8	2310.0
15°	3024.6	3017.4	2964.0	2891.6	2802.8	2731.2	2712.2	2642.5	2534.7	2413.7	2287.9
17.5°	2943.9	2946.9	2901.5	2830.0	2757.4	2703.0	2685.9	2621.4	2514.5	2393.7	2261.7
20°	2802.8	2816.9	2786.7	2723.2	2682.9	2645.6	2634.5	2580.1	2483.4	2364.3	2233.4
22.5°	2661.7	2674.9	2662.8	2609.2	2603.3	2581.1	2575.0	2535.7	2456.1	2346.3	2216.3
25°	2558.0	2570.1	2568.0	2521.6	2539.8	2538.8	2533.7	2514.5	2450.0	2346.3	2219.4
27.5°	2529.6	2533.7	2529.6	2487.3	2512.6	2532.7	2528.6	2525.7	2468.3	2375.5	2257.6
30°	2626.5	2620.4	2589.2	2503.4	2526.7	2554.9	2550.8	2552.9	2522.6	2452.2	2343.3
32.5°	3012.5	2985.2	2886.4	2645.6	2584.2	2599.2	2601.2	2634.5	2639.6	2570.1	2476.3
35°	3589.9	3559.8	3431.7	3026.6	2762.5	2710.0	2710.0	2760.5	2790.8	2739.3	2682.9
37.5°	4201.7	4168.4	4100.0	3554.7	3137.4	2902.7	2897.6	2932.8	2976.2	2988.2	3002.3
40°	4897.1	4861.8	4881.0	4147.3	3660.6	3236.2	3164.6	3139.4	3256.4	3334.0	3446.8
42.5°	5658.1	5642.0	5649.0	4807.4	4256.1	3735.2	3633.3	3503.3	3644.3	3782.5	4019.2
45°	6362.5	6376.7	6369.6	5513.9	4919.3	4343.8	4236.0	3984.1	4122.1	4358.9	4744.9
47.5°	6979.3	6920.9	7011.6	6285.9	5662.0	5025.1	4892.1	4554.4	4694.5	4986.9	5639.9
50°	7728.2	7720.2	7587.1	7315.9	6560.1	5709.4	5535.0	5144.1	5361.8	5767.8	6767.7
52.5°	8515.4	8369.1	8247.2	8117.3	7512.4	6410.9	6197.2	5731.6	6145.8	6656.8	8142.3
55°	8676.5	8611.1	8762.2	8981.0	8430.7	7139.5	6890.7	6468.3	7028.7	7672.8	9727.7
57.5°	9021.3	9020.2	9332.8	9722.7	9376.0	7912.6	7661.6	7358.2	8021.4	8836.7	11410.8
60°	9254.1	9319.6	9900.1	10657.0	10304.3	8805.5	8574.9	8385.3	9150.2	10137.9	12979.0
62.5°	9376.0	9464.7	10256.8	11035.9	11616.4	10292.2	10061.3	9788.2	10643.8	11565.0	13896.2
65°	8869.1	9043.3	10201.4	11363.5	12765.5	12701.9	12598.1	12118.3	12511.5	12692.8	13564.6
67.5°	7466.2	7644.5	8993.0	11058.0	13585.7	15025.9	15048.1	14228.9	13660.3	12789.6	11404.8
70°	5319.5	5459.4	6575.2	9271.1	12960.9	16544.9	16620.4	15201.4	13431.5	11342.3	7968.1
72.5°	2525.7	2611.4	3667.6	6033.9	10285.1	15159.1	15305.1	13959.8	11421.0	8397.4	4346.9
75°	928.2	954.4	1239.7	2566.9	5965.5	11179.0	11351.4	10006.8	7570.9	4180.5	1655.8
77.5°	556.3	573.5	695.4	1083.4	2346.3	6389.7	6644.8	5442.4	3308.7	1556.1	814.4
80°	389.1	401.2	498.9	674.3	1108.6	2434.9	2661.7	2221.2	1318.3	984.6	592.6
82.5°	263.1	269.1	350.7	455.5	736.7	869.7	938.3	987.6	889.0	732.7	375.9
85°	172.4	178.5	237.8	300.4	468.6	449.5	459.6	581.6	649.0	497.9	208.6
87.5°	98.8	102.8	143.1	160.3	229.7	190.5	192.4	306.4	415.2	335.5	127.0
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°	2403.8	2403.8	2403.8	2403.8	2403.8	2403.8	2403.8	2403.8	2403.8	2403.8	2403.8
2.5°	2394.6	2381.5	2352.3	2334.2	2317.1	2313.0	2305.9	2305.0	2304.0	2304.0	2300.9
5°	2341.3	2319.1	2273.7	2248.5	2227.3	2225.3	2224.4	2229.4	2231.4	2233.4	2230.3
7.5°	2306.9	2276.8	2220.3	2184.0	2158.7	2152.8	2162.8	2186.0	2201.1	2207.1	2204.3
10°	2285.7	2248.5	2183.1	2143.6	2122.5	2119.6	2132.5	2159.9	2191.1	2203.2	2202.1
12.5°	2261.7	2219.4	2149.7	2108.4	2096.4	2102.4	2119.6	2144.8	2177.0	2196.0	2197.2
15°	2237.4	2188.0	2116.4	2080.1	2075.2	2083.2	2099.3	2118.6	2143.6	2162.8	2164.8
17.5°	2208.3	2156.8	2085.2	2048.0	2044.0	2048.0	2048.9	2059.1	2075.2	2093.3	2098.4
20°	2177.0	2124.5	2049.9	2012.7	1994.5	1978.3	1960.2	1962.3	1967.3	1985.4	1989.4
22.5°	2154.8	2102.4	2022.8	1971.3	1923.0	1874.7	1838.3	1833.4	1835.2	1850.4	1855.4
25°	2156.8	2101.3	2015.6	1927.0	1821.1	1743.6	1695.2	1687.1	1686.1	1697.2	1704.3
27.5°	2196.0	2140.8	2041.8	1881.7	1710.4	1595.4	1544.0	1538.0	1530.0	1533.0	1541.0
30°	2283.9	2232.4	2105.4	1835.2	1590.4	1450.4	1396.9	1390.8	1379.7	1374.6	1380.8
32.5°	2427.0	2384.6	2198.2	1791.0	1470.4	1326.3	1271.9	1258.9	1251.8	1245.7	1250.7
35°	2664.7	2646.5	2322.1	1742.5	1364.6	1230.6	1181.2	1161.0	1151.0	1162.0	1170.1
37.5°	3037.7	3047.7	2484.4	1667.0	1283.0	1167.1	1125.8	1102.6	1087.5	1096.6	1105.6
40°	3565.7	3572.7	2663.7	1560.1	1212.4	1129.8	1085.4	1064.3	1043.1	1027.0	1026.0
42.5°	4259.1	4187.5	2840.1	1444.2	1130.7	1106.6	1057.2	1031.1	998.7	954.4	945.3
45°	5081.5	4830.6	2974.2	1311.2	1039.1	1078.3	1026.0	989.8	939.3	890.8	885.9
47.5°	6029.0	5521.1	3039.7	1173.1	953.5	1037.1	987.6	930.3	866.8	842.6	839.6
50°	7185.9	6340.3	3070.9	1039.1	878.8	982.7	932.3	864.7	811.3	806.3	803.3
52.5°	8503.1	7326.0	3080.9	929.2	817.4	912.0	886.8	821.4	779.1	783.1	783.1
55°	9882.0	8343.9	2943.9	849.5	761.0	839.6	856.7	804.3	768.9	785.1	791.1
57.5°	11147.7	9246.0	2512.6	788.2	707.5	784.1	845.6	820.4	796.2	861.7	865.7
60°	12119.4	9779.2	1876.6	732.7	668.2	764.9	874.8	881.9	888.0	1044.1	1065.3
62.5°	12322.9	9601.8	1290.1	689.4	650.1	781.0	928.2	929.2	922.2	1031.1	1044.1
65°	11388.7	8480.0	938.3	665.1	634.9	810.4	973.6	952.5	906.1	988.8	964.5
67.5°	9044.5	6388.7	781.0	647.0	612.7	808.2	1021.9	973.6	897.0	968.6	929.2
70°	5870.8	3863.2	695.4	631.9	586.6	769.9	1050.2	971.5	870.7	901.0	854.6
72.5°	2864.2	1727.4	637.9	609.8	559.4	716.6	1049.2	953.5	843.6	841.5	816.4
75°	1120.7	791.1	585.5	576.5	513.0	656.1	1021.0	927.2	811.3	779.1	769.9
77.5°	656.1	564.3	519.0	527.0	457.5	595.7	979.6	881.9	767.0	728.6	718.6
80°	477.7	422.4	442.4	455.5	391.0	535.2	924.1	826.4	717.6	736.7	722.6
82.5°	306.4	272.1	358.9	371.9	325.5	473.6	863.7	768.1	648.0	588.6	574.5
85°	156.2	172.4	267.1	283.1	250.9	389.1	790.1	690.3	569.4	489.8	497.9
87.5°	87.7	117.9	170.3	190.5	177.3	299.3	641.0	569.4	464.7	377.9	332.6
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)