

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: P318518

Luminaire Tested: **GLEON-SA4B-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4B-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16950 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 171
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: 24 FT

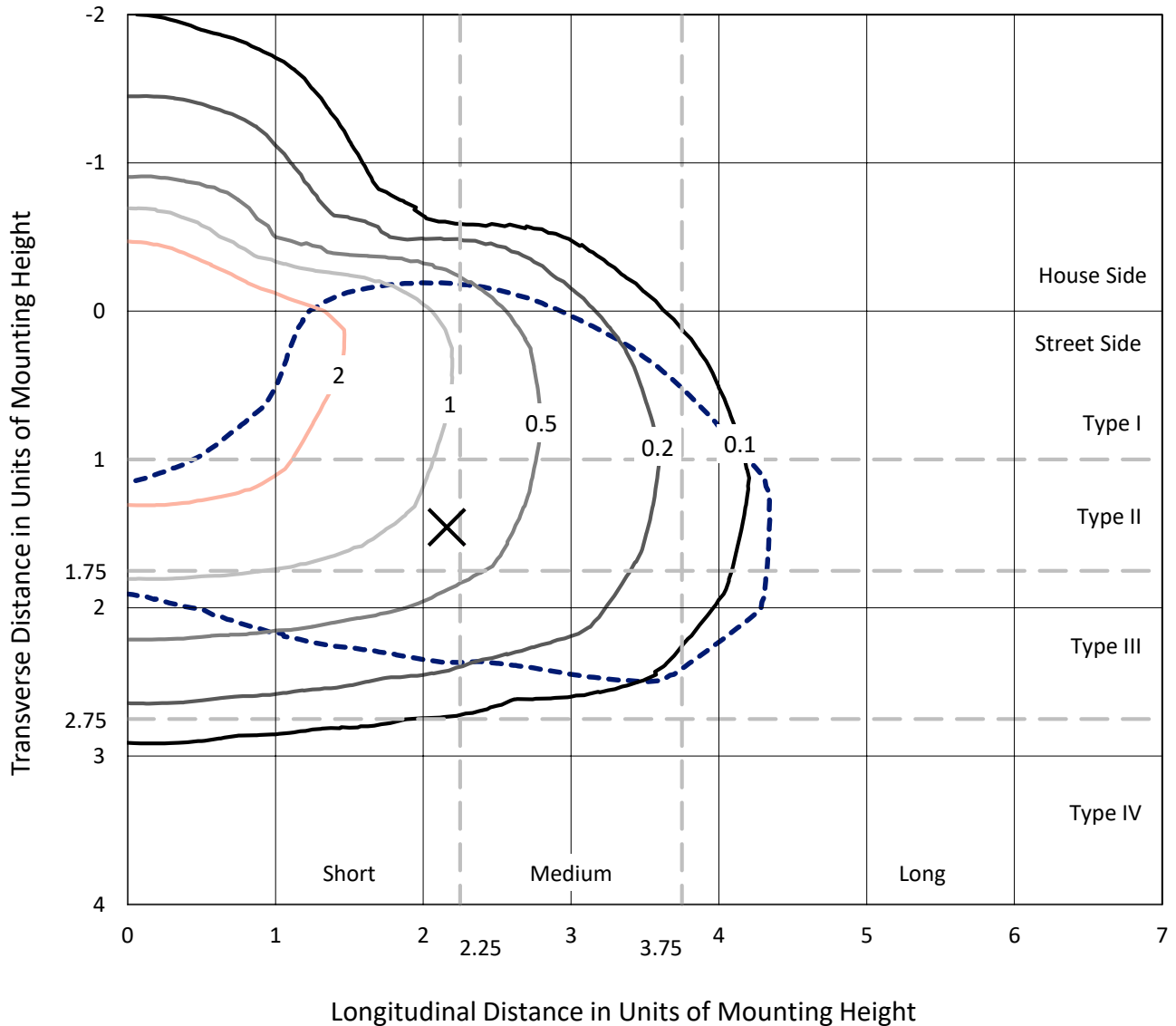




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Iso-Footcandle Lines of Horizontal Illumination

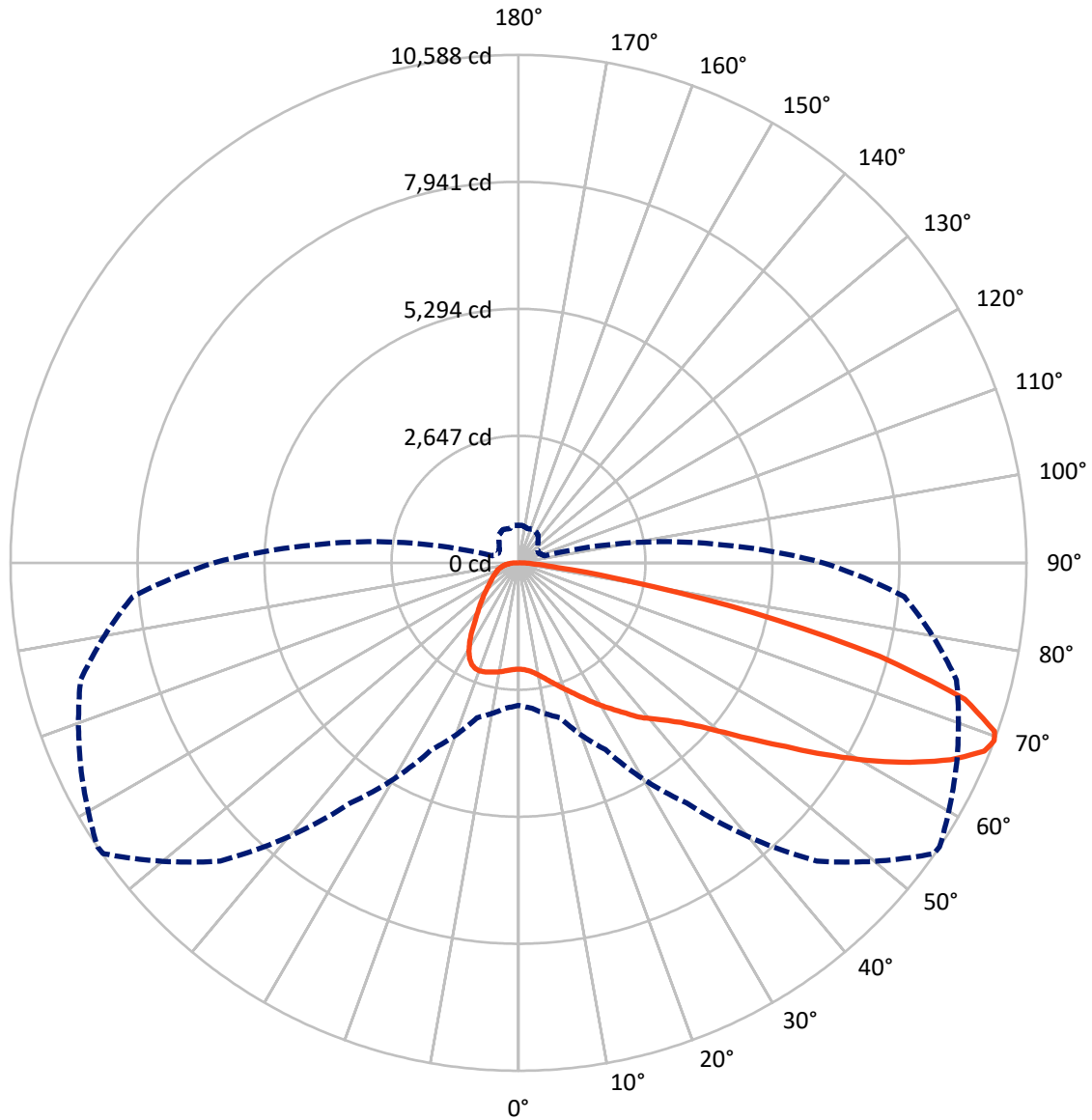
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3774.7	0.0	3774.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	13175.3	0.0	13175.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	16950.0	0.0	16950.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.6	1.3
10°-20°	699.9	4.1
20°-30°	1221.7	7.2
30°-40°	1754.9	10.4
40°-50°	2428.7	14.3
50°-60°	3558.3	21.0
60°-70°	4338.3	25.6
70°-80°	2398.5	14.2
80°-90°	332.2	2.0
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°	16950.0	100.0
0°-180°	16950.0	100.0

Coefficient of Utilization

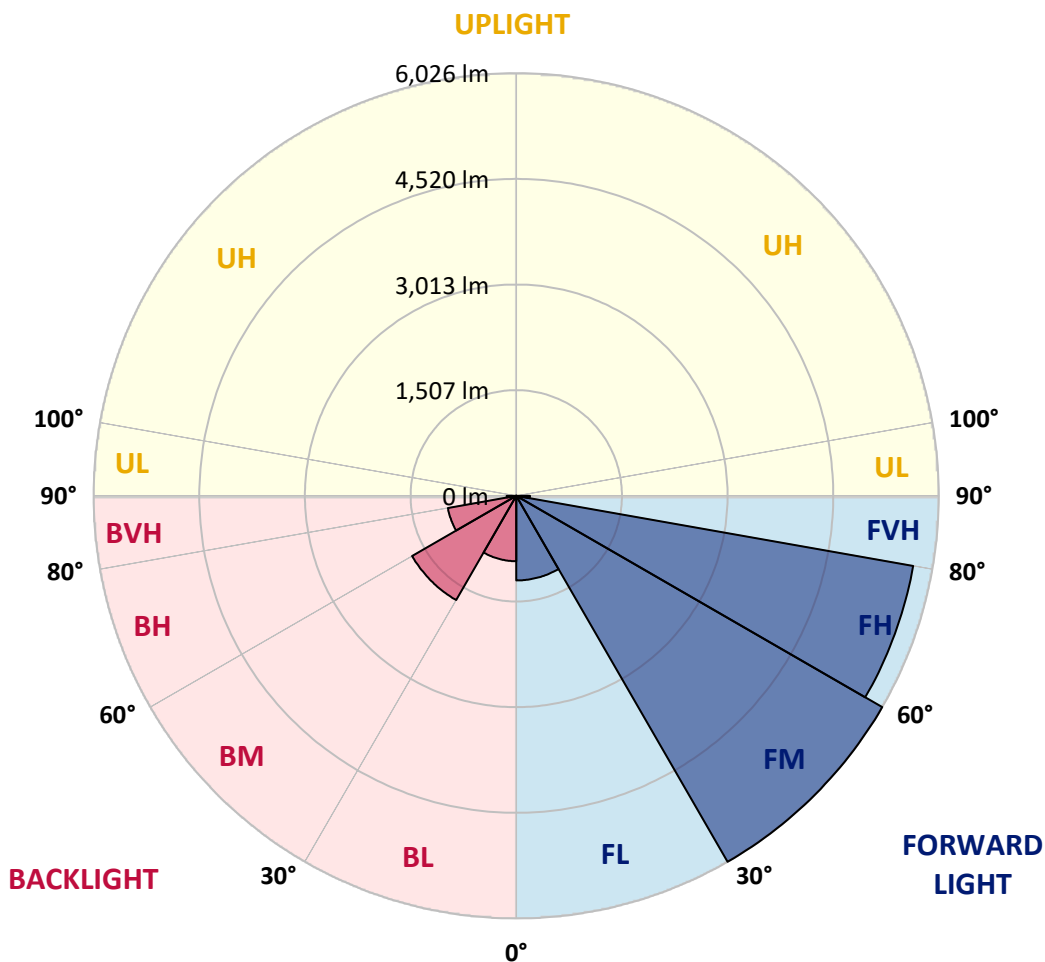


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1206.3	7.1			
FM (30°-60°)	6026.4	35.6			
FH (60°-80°)	5746.9	33.9			G3/7500
FVH (80°-90°)	195.7	1.2			G2/225
BL (0°-30°)	932.8	5.5	B2/1000		
BM (30°-60°)	1715.5	10.1	B2/2500		
BH (60°-80°)	989.9	5.8	B2/1000		G2/1000
BVH (80°-90°)	136.5	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-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0
2.5°	2230.0	2232.3	2230.6	2235.2	2230.0	2233.5	2230.6	2230.6	2228.8	2223.5	2217.7
5°	2265.0	2269.7	2266.8	2271.4	2265.0	2266.2	2260.9	2260.9	2255.7	2244.6	2232.9
7.5°	2319.9	2325.1	2322.8	2327.5	2318.7	2318.7	2311.7	2311.7	2300.6	2282.5	2269.1
10°	2385.3	2392.3	2390.0	2397.0	2390.0	2392.3	2385.3	2385.3	2371.3	2345.6	2328.7
12.5°	2480.5	2489.2	2482.8	2482.2	2479.3	2484.0	2478.1	2477.0	2464.1	2429.1	2405.7
15°	2607.8	2617.1	2603.7	2602.5	2586.2	2584.4	2584.4	2582.7	2574.5	2532.4	2493.9
17.5°	2754.3	2757.2	2745.6	2726.9	2705.9	2692.4	2690.7	2695.4	2695.4	2646.3	2585.0
20°	2898.0	2903.2	2893.9	2872.9	2846.0	2826.1	2812.1	2821.5	2820.9	2762.5	2675.5
22.5°	3054.5	3066.7	3052.7	3025.8	2994.3	2972.1	2947.6	2955.8	2956.4	2884.5	2764.3
25°	3257.1	3246.0	3237.2	3199.3	3154.3	3131.5	3108.8	3116.9	3114.6	3015.9	2855.9
27.5°	3436.3	3438.7	3427.0	3386.7	3334.7	3284.5	3283.4	3288.6	3279.9	3152.6	2942.3
30°	3644.8	3646.0	3629.6	3593.4	3536.8	3472.0	3456.8	3465.5	3446.9	3282.2	3033.4
32.5°	3852.1	3857.9	3839.8	3796.0	3750.5	3671.7	3641.3	3647.1	3600.4	3414.7	3127.4
35°	4033.7	4041.9	4036.0	4006.8	3957.2	3889.5	3853.3	3849.8	3791.9	3577.1	3251.8
37.5°	4218.8	4226.4	4220.0	4195.4	4175.6	4103.8	4084.5	4084.5	3984.1	3742.9	3410.1
40°	4409.1	4420.8	4413.2	4379.4	4362.4	4329.7	4283.6	4272.5	4163.9	3942.0	3668.2
42.5°	4586.1	4601.3	4631.6	4611.8	4577.3	4582.0	4489.1	4483.3	4403.9	4236.3	3992.2
45°	4837.2	4859.3	4910.7	4895.5	4888.5	4862.8	4752.5	4747.2	4716.9	4632.2	4394.5
47.5°	5111.0	5141.4	5234.2	5237.1	5312.5	5264.0	5113.9	5095.8	5102.8	5106.3	4885.6
50°	5363.3	5396.5	5548.9	5620.8	5798.3	5808.8	5568.8	5552.4	5579.9	5660.5	5457.9
52.5°	5564.7	5606.8	5797.1	6019.0	6323.2	6409.6	6128.8	6116.5	6136.9	6275.9	6104.8
55°	5712.4	5758.0	5965.3	6369.3	6855.2	7007.6	6773.4	6761.7	6774.6	6951.5	6808.4
57.5°	5746.9	5758.0	6058.7	6605.2	7304.2	7670.3	7562.3	7538.9	7475.9	7630.0	7585.1
60°	5585.1	5629.5	5981.6	6688.2	7651.6	8323.7	8386.8	8357.6	8180.6	8306.8	8270.6
62.5°	5257.0	5336.4	5693.8	6562.0	7787.7	8857.4	9195.5	9160.5	8855.7	8937.4	8763.4
65°	4721.0	4754.8	5130.3	6127.0	7614.8	9199.0	9916.6	9899.1	9515.5	9387.6	8854.5
67.5°	3762.2	3825.8	4144.6	5217.9	6907.7	9158.7	10474.3	10472.5	9946.4	9554.6	8531.6
69°	2972.1	3038.1	3341.7	4298.2	6112.4	8790.3	10567.7	10588.1	10067.9	9453.0	8070.3
70°	2369.5	2446.0	2654.5	3620.3	5406.5	8304.4	10490.0	10526.8	10044.5	9285.4	7644.6
72.5°	1008.4	1070.3	1218.6	1866.2	3295.0	6201.2	9591.4	9730.4	9503.2	8498.3	6318.0
75°	440.3	459.5	526.7	760.8	1462.7	3375.0	7513.8	7770.7	8125.8	7183.3	4706.4
77.5°	322.3	330.5	367.3	446.7	656.3	1274.7	4831.9	4981.4	5860.2	5227.2	2886.9
80°	249.3	255.2	283.8	328.2	428.6	515.6	2203.7	2332.2	3295.0	2684.8	1202.3
82.5°	198.5	202.6	222.5	241.7	296.0	312.4	731.6	811.6	1216.3	741.6	318.2
85°	184.5	189.2	196.2	176.3	189.8	183.3	316.5	331.1	367.3	291.4	133.1
87.5°	83.5	98.7	194.4	137.2	101.0	80.6	129.6	135.5	152.4	153.0	59.0
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°	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0	2216.0
2.5°	2221.2	2219.5	2222.4	2215.4	2224.1	2223.5	2220.6	2221.8	2227.6	2227.1	2227.6
5°	2234.6	2233.5	2237.0	2231.7	2242.2	2245.7	2246.3	2251.6	2258.0	2259.8	2259.8
7.5°	2268.5	2268.5	2270.3	2263.3	2270.3	2269.7	2266.8	2272.0	2278.4	2279.0	2278.4
10°	2326.9	2327.5	2324.6	2306.5	2300.6	2284.9	2270.3	2270.8	2279.0	2285.4	2287.2
12.5°	2400.5	2398.1	2385.3	2352.0	2327.5	2295.4	2280.2	2279.6	2287.8	2293.0	2294.8
15°	2484.6	2478.1	2444.9	2390.5	2347.3	2315.8	2291.3	2285.4	2280.8	2274.9	2275.5
17.5°	2564.0	2549.4	2493.9	2418.6	2373.0	2331.0	2283.7	2245.7	2219.5	2204.3	2199.6
20°	2644.6	2615.9	2535.9	2444.9	2387.0	2310.6	2219.5	2142.4	2094.5	2072.3	2068.2
22.5°	2718.1	2672.0	2575.1	2472.3	2376.0	2241.6	2098.6	1986.5	1919.9	1890.1	1892.5
25°	2789.9	2725.7	2615.9	2491.6	2319.9	2120.2	1930.4	1792.6	1715.5	1682.3	1681.1
27.5°	2853.0	2780.0	2660.3	2475.8	2215.4	1947.4	1731.3	1597.0	1532.8	1504.2	1499.5
30°	2925.4	2848.3	2719.3	2415.7	2062.4	1747.7	1536.9	1442.3	1396.7	1368.1	1362.9
32.5°	3013.6	2941.2	2767.8	2306.5	1866.8	1539.2	1385.0	1319.1	1277.6	1245.5	1239.7
35°	3142.0	3063.8	2780.0	2150.0	1651.9	1374.5	1273.5	1205.8	1149.7	1108.3	1104.2
37.5°	3303.2	3217.4	2752.0	1947.4	1443.4	1267.7	1180.7	1097.2	1024.2	965.8	956.5
40°	3535.6	3406.0	2674.3	1713.8	1289.9	1185.3	1090.2	995.0	904.5	836.2	822.7
42.5°	3814.7	3627.3	2555.2	1481.4	1177.2	1101.8	1000.2	882.3	795.9	747.4	740.4
45°	4169.7	3857.3	2390.0	1278.2	1066.2	1018.3	903.3	794.7	741.0	705.4	699.5
47.5°	4575.0	4115.4	2216.5	1112.9	972.2	940.1	825.7	755.6	713.0	684.9	679.7
50°	5073.1	4406.8	2032.6	977.5	877.6	846.1	788.9	734.0	700.1	678.5	673.3
52.5°	5634.8	4735.6	1900.1	870.6	799.4	776.6	769.6	722.3	694.9	678.5	673.3
55°	6239.7	5070.1	1757.0	780.7	731.6	738.1	756.8	723.5	704.8	684.9	677.3
57.5°	6845.2	5415.8	1597.6	704.8	677.9	709.5	748.0	725.8	710.0	690.8	683.8
60°	7324.0	5634.8	1350.6	641.1	635.3	677.9	727.0	708.3	687.9	688.4	687.3
62.5°	7547.7	5623.1	1077.9	584.5	592.7	635.3	693.1	680.8	663.9	686.7	688.4
65°	7422.1	5342.8	839.1	533.1	547.1	590.9	658.1	667.4	673.3	717.0	722.9
67.5°	6895.5	4797.4	649.9	488.2	505.7	560.6	661.6	727.0	734.6	780.7	780.1
69°	6350.7	4285.9	564.6	464.8	485.2	568.1	707.1	764.9	736.3	785.4	778.4
70°	5894.0	3881.3	519.1	449.0	475.9	581.6	737.5	764.3	727.6	769.6	757.9
72.5°	4539.4	2792.3	440.3	419.8	444.4	556.5	746.2	747.4	707.1	715.3	695.4
75°	3113.4	1764.6	384.2	380.1	396.5	501.6	718.2	714.1	654.0	642.3	626.0
77.5°	1716.7	896.3	326.4	342.2	353.3	444.4	652.8	647.0	597.3	572.8	567.0
80°	662.2	392.4	275.6	304.2	311.2	384.8	572.2	567.0	525.5	494.0	485.2
82.5°	249.9	205.5	227.7	263.3	261.0	317.6	484.6	481.7	441.4	395.3	381.3
85°	115.6	123.2	180.4	217.2	200.3	235.3	387.7	393.0	343.9	289.0	289.0
87.5°	49.0	68.9	127.9	164.1	134.9	158.8	284.4	271.5	249.3	172.8	162.3
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)