

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: P522836

Luminaire Tested: **GALN-SA7A-827-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23432 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

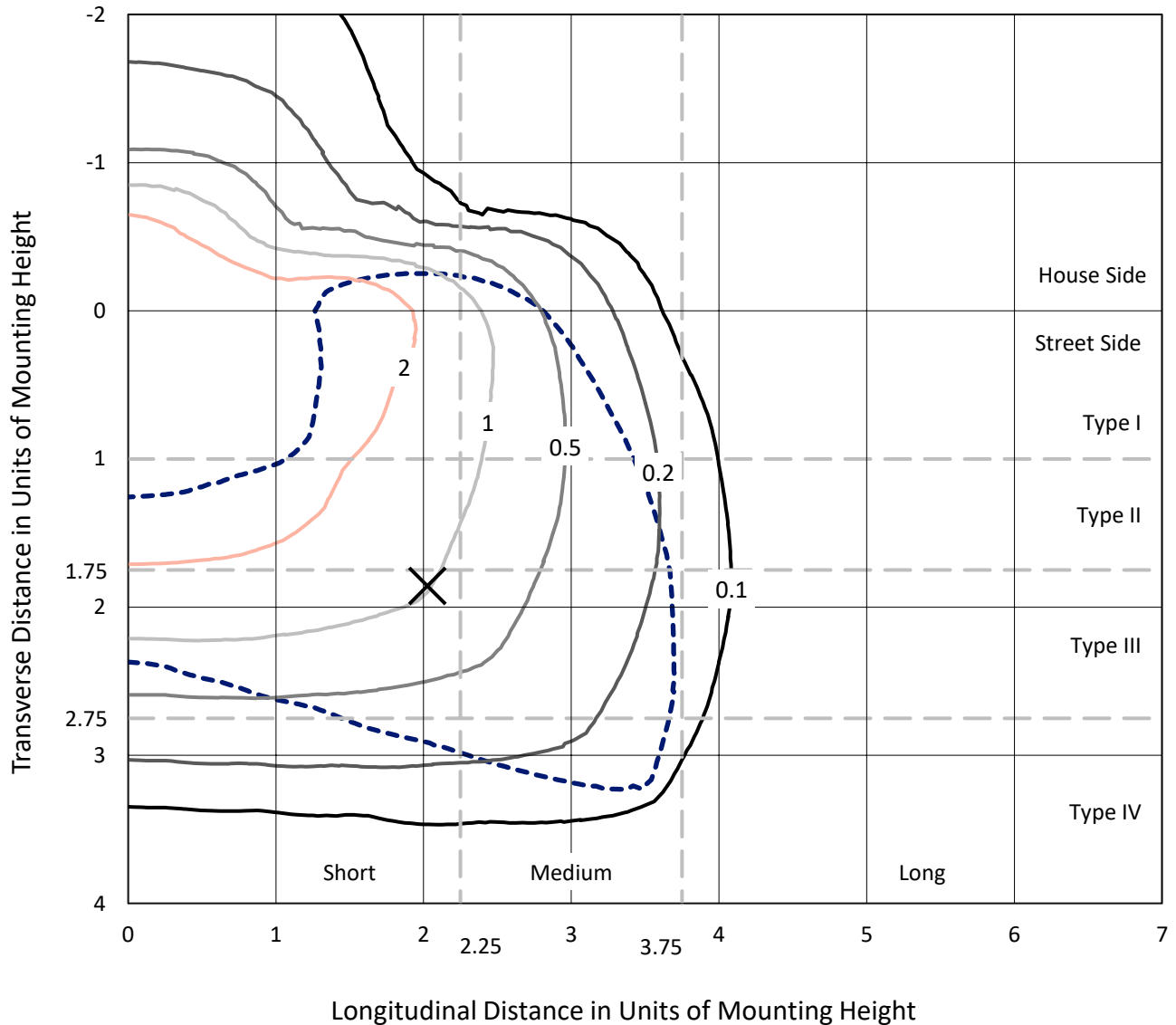
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

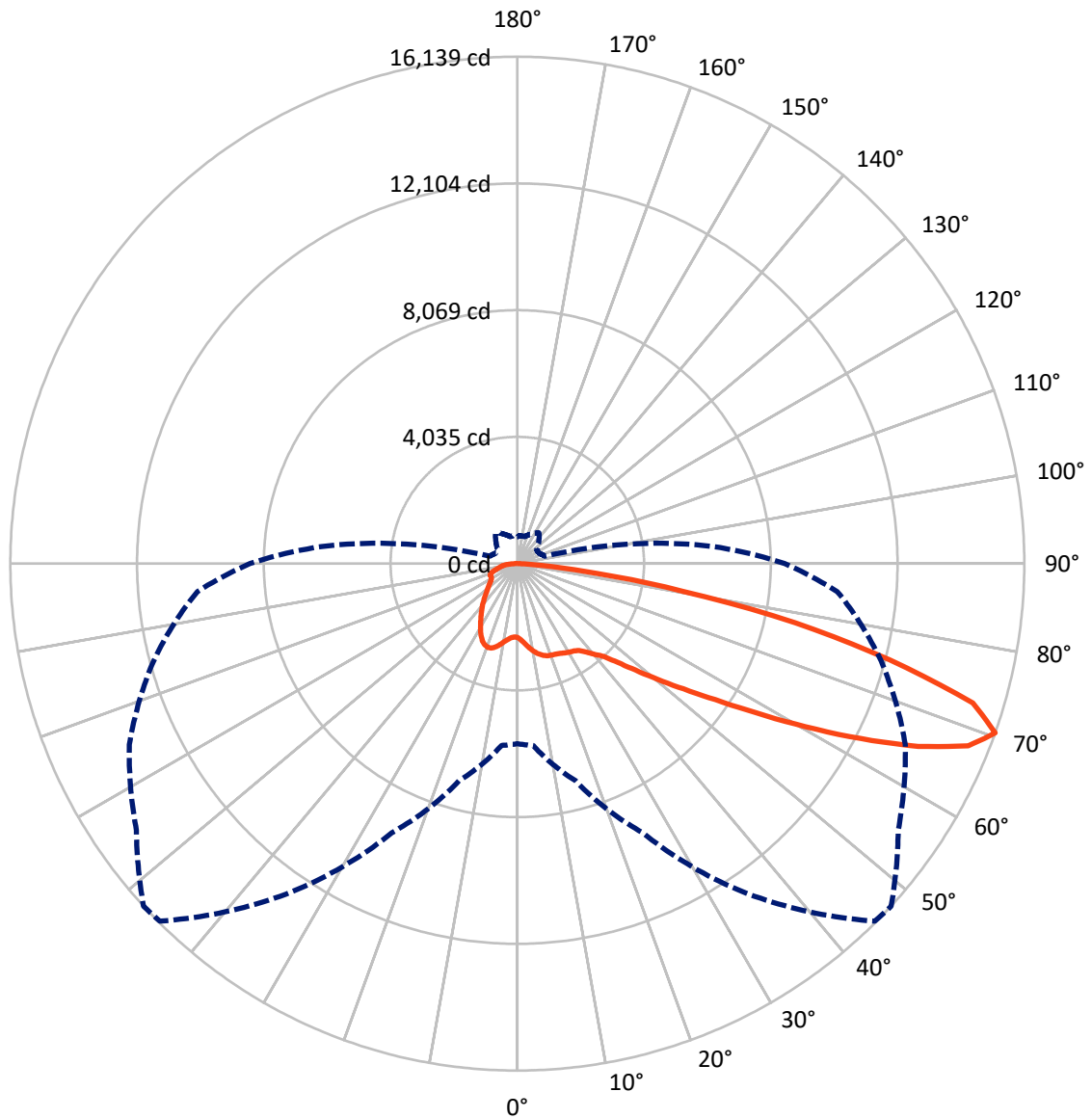
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5305.5	0.0	5305.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	18126.5	0.0	18126.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	23432.0	0.0	23432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.5	1.0
10°-20°	810.6	3.5
20°-30°	1348.0	5.8
30°-40°	1910.6	8.2
40°-50°	2820.5	12.0
50°-60°	4885.2	20.8
60°-70°	6900.5	29.4
70°-80°	3966.8	16.9
80°-90°	547.3	2.3
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°	23432.0	100.0
0°-180°	23432.0	100.0

Coefficient of Utilization



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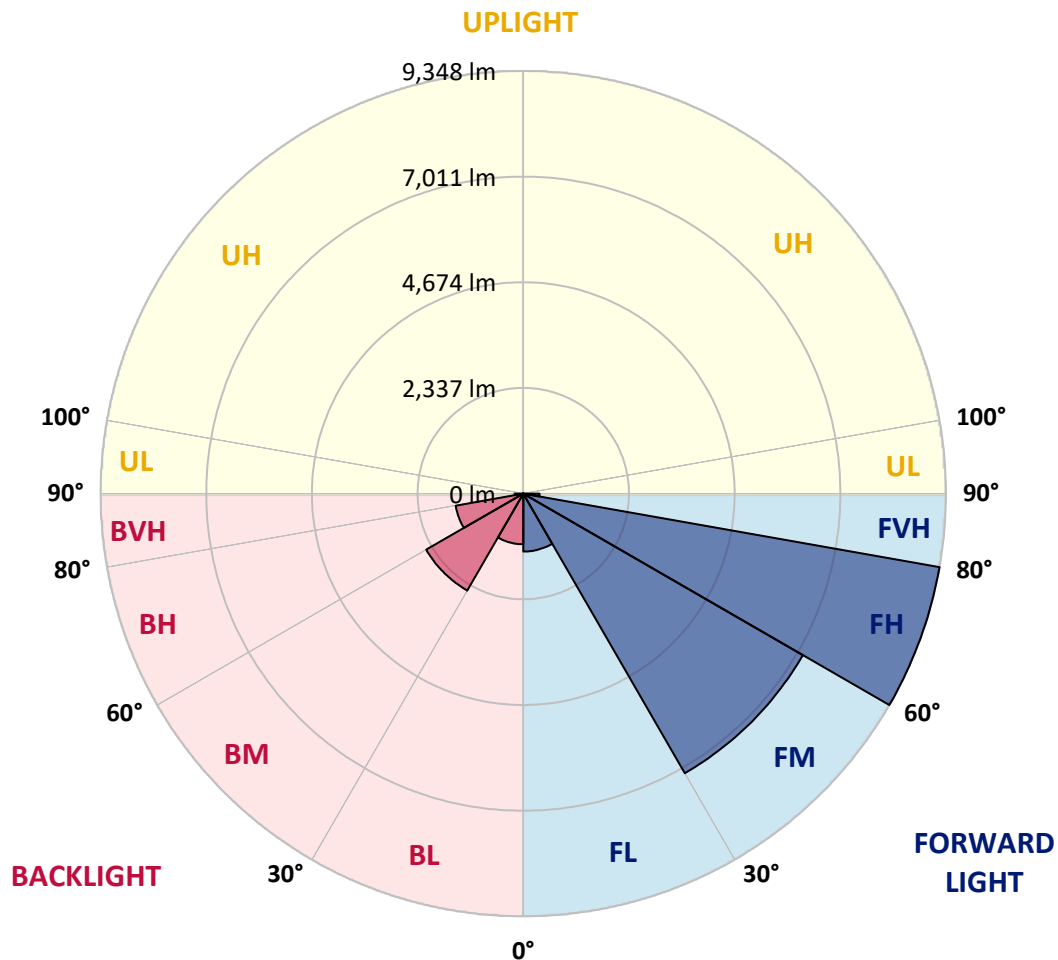
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1281.3	5.5			
FM	(30°-60°)	7139.3	30.5			
FH	(60°-80°)	9348.4	39.9			G4/12000
FVH	(80°-90°)	357.5	1.5			G3/500
BL	(0°-30°)	1119.8	4.8	B3/2500		
BM	(30°-60°)	2477.0	10.6	B2/2500		
BH	(60°-80°)	1518.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	189.8	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°	47.5°	55°	65°	75°	85°
0°	2352.3	2352.3	2352.3	2352.3	2352.3	2352.3	2352.3	2352.3	2352.3	2352.3	2352.3
2.5°	2504.0	2495.2	2494.0	2475.2	2465.1	2446.3	2438.8	2421.3	2399.9	2378.6	2358.6
5°	2700.9	2700.9	2692.1	2665.8	2624.4	2581.8	2562.9	2529.1	2468.9	2420.0	2378.6
7.5°	2902.7	2905.3	2887.7	2848.8	2789.9	2720.9	2703.4	2653.2	2568.0	2496.5	2435.0
10°	3077.0	3077.0	3053.2	3000.6	2926.6	2851.3	2833.8	2777.4	2682.1	2593.0	2512.8
12.5°	3209.9	3209.9	3178.6	3109.6	3029.4	2961.7	2941.6	2887.7	2798.7	2699.6	2598.1
15°	3296.5	3290.2	3255.1	3177.3	3099.6	3040.7	3026.9	2981.7	2900.2	2799.9	2685.8
17.5°	3300.2	3297.7	3263.9	3198.7	3131.0	3090.8	3082.1	3052.0	2988.0	2892.7	2772.3
20°	3227.5	3232.5	3209.9	3163.6	3131.0	3113.4	3109.6	3099.6	3054.5	2965.4	2845.1
22.5°	3149.8	3158.5	3137.2	3112.1	3109.6	3127.2	3129.7	3132.2	3103.4	3016.9	2906.5
25°	3131.0	3137.2	3115.9	3093.3	3107.1	3153.5	3163.6	3173.6	3151.0	3078.3	2979.2
27.5°	3226.2	3221.2	3179.9	3131.0	3139.7	3202.4	3216.2	3227.5	3216.2	3153.5	3069.5
30°	3495.8	3479.5	3396.8	3253.8	3208.7	3252.6	3266.4	3297.7	3297.7	3251.3	3167.3
32.5°	3947.2	3915.9	3764.2	3483.3	3326.6	3300.2	3314.0	3365.4	3391.8	3355.4	3263.9
35°	4495.2	4462.6	4245.7	3868.2	3542.2	3395.5	3391.8	3449.4	3519.7	3438.2	3319.0
37.5°	5045.6	5011.8	4751.0	4327.2	3857.0	3596.1	3573.6	3593.6	3623.7	3474.5	3395.5
40°	5596.1	5556.0	5327.8	4840.0	4241.9	3862.0	3803.0	3712.8	3700.2	3593.6	3543.5
42.5°	6141.5	6105.2	5989.8	5415.5	4703.3	4121.5	4031.2	3875.8	3923.4	3859.5	3815.6
45°	6692.0	6694.5	6571.6	6061.3	5260.1	4600.5	4478.9	4235.6	4348.5	4324.7	4349.7
47.5°	7179.8	7173.5	7129.6	6688.2	5950.9	5217.4	5060.7	4778.6	4971.7	5059.4	5251.3
50°	7652.5	7648.7	7651.2	7399.2	6753.4	5950.9	5777.9	5482.0	5917.1	6221.8	6565.3
52.5°	8329.6	8350.9	8199.2	8132.7	7729.0	6817.4	6626.8	6320.8	7034.3	7514.5	8185.4
55°	9009.2	8991.6	8872.5	8941.5	8749.6	7843.1	7643.7	7400.4	8278.2	8803.5	9811.7
57.5°	9409.2	9415.4	9537.1	9874.4	10009.8	9122.0	8941.5	8753.4	9676.2	10048.6	11258.6
60°	9769.0	9797.9	10147.7	10784.7	11152.1	10693.1	10532.6	10349.6	10959.0	11106.9	12515.0
62.5°	9881.9	9970.9	10581.5	11534.5	12265.5	12466.1	12266.8	11863.0	12180.3	12122.6	13366.4
65°	9318.9	9440.5	10535.2	11815.4	13259.8	14148.9	14022.2	13272.4	13221.0	12873.7	13505.6
67.5°	7836.8	7958.4	9364.0	11226.0	13671.1	15605.9	15479.2	14300.6	13852.9	12943.9	12452.3
70°	5734.0	5810.5	7154.7	9451.8	12844.8	16094.9	16138.8	14802.1	13627.2	11989.7	10224.2
72.5°	3304.0	3473.3	4414.9	6649.4	10493.8	14858.6	15163.2	13758.9	12200.3	10002.3	7148.4
75°	1420.7	1424.4	2041.3	3667.6	7107.0	11943.3	12237.9	11405.4	9580.9	6916.4	3816.8
77.5°	675.8	688.4	897.8	1637.6	3912.1	8251.8	9046.8	8057.5	6127.7	3322.8	1442.0
80°	438.9	447.6	549.2	812.5	1918.4	4784.8	5339.0	4648.2	2703.4	1187.4	621.9
82.5°	265.8	268.3	367.4	496.5	1055.8	2166.7	2554.2	2017.5	1153.6	711.0	366.1
85°	161.8	163.0	223.2	307.2	640.7	748.6	768.6	762.4	677.1	465.2	195.6
87.5°	77.7	80.2	115.4	145.5	252.0	232.0	219.4	254.5	319.7	250.8	84.0
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°	2352.3	2352.3	2352.3	2352.3	2352.3	2352.3	2352.3	2352.3	2352.3	2352.3	2352.3
2.5°	2349.8	2346.0	2337.2	2333.5	2331.0	2332.2	2331.0	2331.0	2332.2	2332.2	2332.2
5°	2361.1	2354.8	2341.0	2341.0	2348.5	2366.1	2382.4	2394.9	2408.7	2407.5	2407.5
7.5°	2410.0	2398.7	2382.4	2387.4	2406.2	2433.8	2462.6	2490.2	2517.8	2520.3	2519.1
10°	2481.4	2470.2	2452.6	2458.9	2489.0	2530.3	2566.7	2606.8	2636.9	2645.7	2643.2
12.5°	2562.9	2540.4	2525.3	2542.9	2590.5	2645.7	2680.8	2710.9	2732.2	2744.8	2739.7
15°	2645.7	2624.4	2606.8	2643.2	2700.9	2752.3	2769.8	2774.9	2778.6	2791.2	2788.6
17.5°	2725.9	2697.1	2690.8	2738.5	2793.7	2816.2	2806.2	2784.9	2768.6	2778.6	2777.4
20°	2797.4	2774.9	2772.3	2820.0	2841.3	2820.0	2777.4	2739.7	2710.9	2713.4	2712.2
22.5°	2865.1	2847.6	2850.1	2870.1	2836.3	2763.6	2693.3	2641.9	2610.6	2616.9	2620.6
25°	2940.4	2922.8	2929.1	2896.5	2784.9	2658.2	2556.7	2512.8	2500.2	2512.8	2521.6
27.5°	3038.2	3026.9	3023.1	2897.7	2693.3	2502.8	2387.4	2371.1	2382.4	2410.0	2423.8
30°	3143.5	3143.5	3123.4	2876.4	2568.0	2315.9	2215.6	2218.1	2257.0	2295.9	2309.7
32.5°	3245.1	3266.4	3203.7	2818.7	2406.2	2134.1	2057.6	2060.1	2094.0	2141.6	2154.2
35°	3329.1	3390.5	3272.6	2713.4	2215.6	1981.1	1923.5	1889.6	1890.9	1927.2	1937.3
37.5°	3444.4	3558.5	3312.8	2556.7	2012.5	1850.7	1785.5	1726.6	1687.7	1672.7	1672.7
40°	3645.0	3813.1	3322.8	2324.7	1820.6	1726.6	1633.8	1563.6	1488.4	1420.7	1408.1
42.5°	3984.9	4196.8	3302.7	2057.6	1647.6	1589.9	1499.6	1413.1	1309.1	1213.8	1206.2
45°	4586.7	4695.8	3248.8	1780.5	1493.4	1458.3	1370.5	1276.5	1166.1	1080.9	1074.6
47.5°	5551.0	5396.7	3177.3	1534.8	1352.9	1342.9	1275.2	1166.1	1055.8	996.8	990.6
50°	6959.1	6500.1	3167.3	1356.7	1240.1	1245.1	1189.9	1089.6	993.1	944.2	936.7
52.5°	8654.3	7833.0	3233.8	1231.3	1141.0	1159.8	1132.3	1039.5	954.2	912.8	905.3
55°	10299.4	9031.7	3273.9	1133.5	1048.2	1083.4	1087.1	1009.4	931.6	890.3	885.2
57.5°	11634.8	9934.5	3095.8	1044.5	968.0	1021.9	1049.5	991.8	920.4	889.0	884.0
60°	12563.9	10360.9	2589.3	965.5	909.1	973.0	1035.7	993.1	947.9	951.7	954.2
62.5°	12859.9	10171.5	1942.3	906.6	868.9	956.7	1058.3	1044.5	998.1	1026.9	1031.9
65°	12369.6	9389.1	1408.1	860.2	833.8	968.0	1126.0	1082.1	980.5	1001.9	1001.9
67.5°	10728.3	8088.8	1095.9	817.5	793.7	989.3	1193.7	1078.3	939.2	964.2	941.7
70°	8510.1	6256.9	912.8	769.9	751.1	958.0	1200.0	1039.5	890.3	895.3	852.6
72.5°	5647.5	4114.0	784.9	724.7	685.9	861.4	1148.6	989.3	842.6	813.8	771.1
75°	2767.3	2051.4	684.6	668.3	600.6	749.8	1078.3	941.7	791.2	746.1	722.2
77.5°	1072.1	872.7	584.3	596.8	522.9	660.8	985.6	874.0	723.5	662.1	643.2
80°	520.4	495.3	479.0	497.8	430.1	563.0	900.3	815.0	660.8	593.1	565.5
82.5°	323.5	305.9	367.4	387.5	331.0	514.1	853.9	764.9	581.8	491.5	469.0
85°	164.3	175.5	245.8	264.6	237.0	408.8	703.4	574.3	420.1	348.6	351.1
87.5°	62.7	84.0	129.2	139.2	126.6	215.7	387.5	334.8	269.6	183.1	169.3
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)