

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: P529568

Luminaire Tested: **GALN-SA4D-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-727-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22490 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

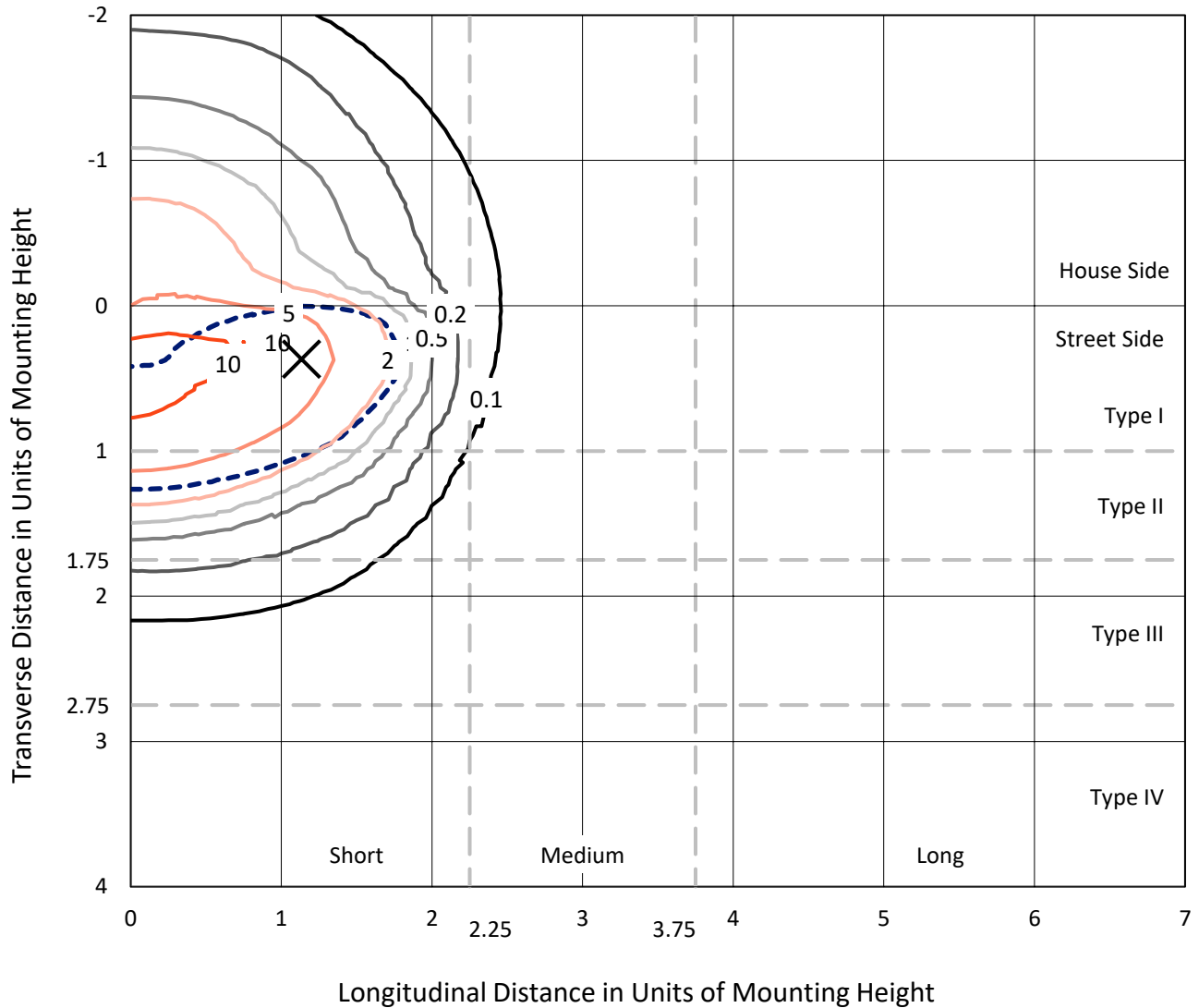
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

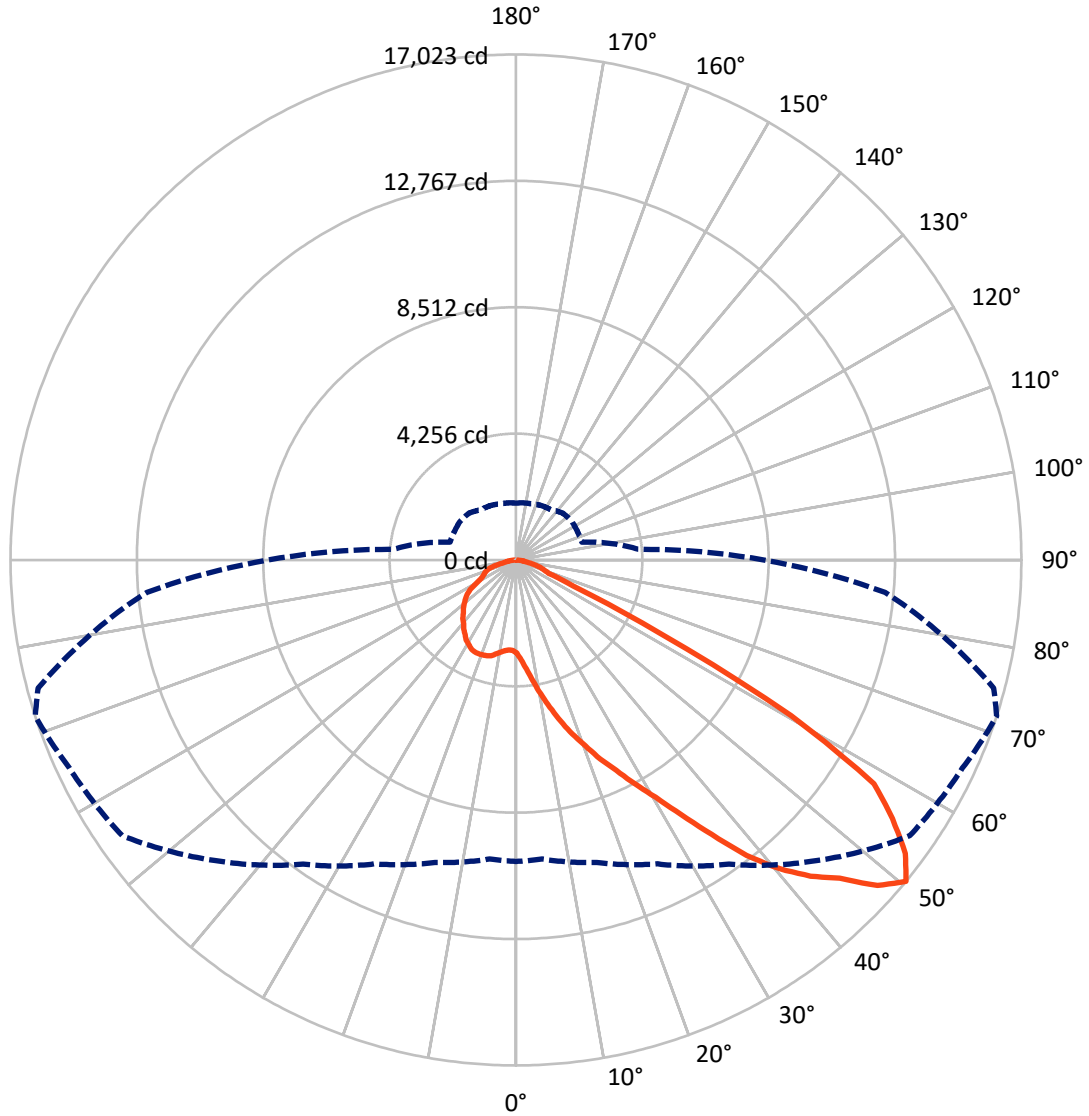
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5152.6	0.0	5152.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	17337.4	0.0	17337.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	22490.0	0.0	22490.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.3	1.6
10°-20°	1376.7	6.1
20°-30°	2669.3	11.9
30°-40°	4422.1	19.7
40°-50°	6187.5	27.5
50°-60°	5219.9	23.2
60°-70°	1591.0	7.1
70°-80°	558.2	2.5
80°-90°	97.0	0.4
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°	22490.0	100.0
0°-180°	22490.0	100.0

Coefficient of Utilization

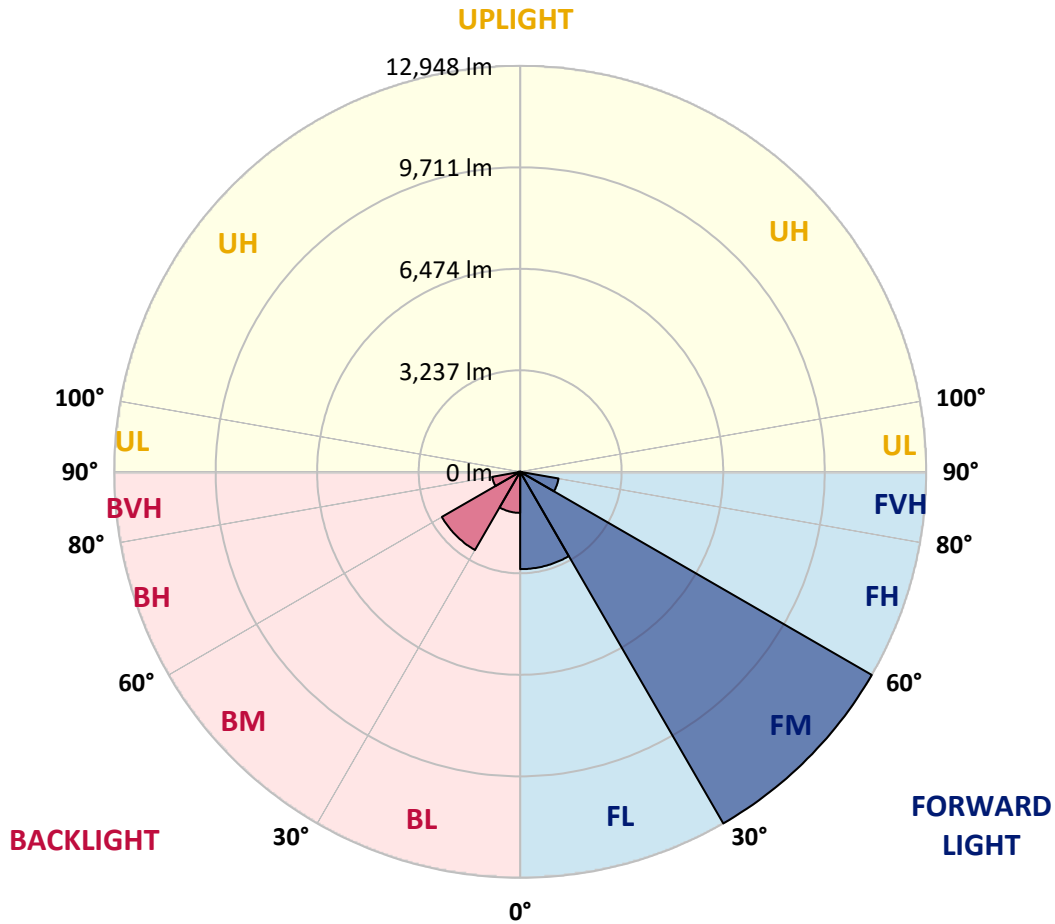


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3104.4	13.8			
FM (30°-60°)	12948.1	57.6			
FH (60°-80°)	1241.4	5.5			G1/1800
FVH (80°-90°)	43.5	0.2			G1/100
BL (0°-30°)	1309.8	5.8	B3/2500		
BM (30°-60°)	2881.4	12.8	B3/5000		
BH (60°-80°)	907.8	4.0	B2/1000		G2/1000
BVH (80°-90°)	53.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3130.8	3130.8	3130.8	3130.8	3130.8	3130.8	3130.8	3130.8	3130.8	3130.8	3130.8
2.5°	4026.9	4001.9	3926.7	3901.7	3812.6	3651.2	3595.5	3431.4	3361.8	3297.8	3222.6
5°	5092.8	4975.9	4967.5	4825.6	4619.7	4500.0	4143.8	3904.5	3684.6	3573.3	3367.3
7.5°	5771.8	5774.6	5774.6	5657.7	5493.5	5190.2	4870.1	4438.8	4107.6	3943.4	3592.8
10°	6417.4	6361.8	6331.2	6320.0	6208.7	5913.7	5571.4	5037.1	4583.5	4391.5	3762.5
12.5°	6873.8	6826.5	6896.1	6859.9	6779.2	6587.2	6264.4	5654.9	5087.2	4828.4	4035.3
15°	7090.9	7124.3	7180.0	7280.2	7244.0	7171.6	6815.4	6289.4	5629.9	5337.7	4277.4
17.5°	7424.9	7333.0	7399.8	7525.1	7625.2	7591.8	7388.7	6748.6	6167.0	5808.0	4603.0
20°	7658.6	7605.8	7639.2	7783.9	7859.0	8048.2	7942.5	7349.7	6681.8	6303.3	4987.0
22.5°	8326.5	8248.6	8140.1	8162.3	8190.2	8323.8	8348.8	8009.3	7280.2	6879.4	5351.6
25°	9150.3	9077.9	8949.9	8819.1	8738.4	8713.4	8799.6	8526.9	7853.4	7438.8	5744.0
27.5°	10057.5	9935.1	9854.4	9584.4	9367.4	9334.0	9292.2	9144.7	8532.5	8084.4	6186.5
30°	10939.7	10842.3	10733.8	10302.4	10077.0	10040.8	9834.9	9876.6	9270.0	8771.8	6687.4
32.5°	11607.6	11616.0	11368.3	11042.7	10831.2	10639.2	10564.0	10683.7	10216.1	9815.4	7246.8
35°	12147.5	12172.5	11936.0	11641.0	11412.8	11546.4	11513.0	11568.7	11346.0	10856.2	7898.0
37.5°	12673.5	12548.2	12295.0	12153.1	12033.4	12253.3	12537.1	12584.4	12626.2	12050.1	8654.9
40°	12759.7	12770.9	12623.4	12723.6	12573.3	12904.5	13564.0	13502.8	13672.6	13168.8	9475.9
42.5°	12637.3	12662.3	12720.8	12862.7	13224.5	13622.5	14602.1	14351.6	14557.5	14109.5	10274.6
45°	12436.9	12334.0	12406.3	12946.2	13572.4	14457.3	15551.0	15356.2	15289.4	14913.7	11226.4
47.5°	11479.6	11585.4	11810.8	12475.9	13416.5	14602.1	16224.5	16180.0	16380.3	16116.0	12091.8
50°	10152.1	10110.4	10544.5	11293.1	12506.5	14318.2	16188.3	16591.8	17023.2	16655.9	12478.7
52.5°	7603.0	7825.6	8198.5	9128.0	10859.0	12770.9	15398.0	16071.4	16422.1	16344.2	12167.0
55°	4806.1	4872.9	5098.3	6203.2	7761.6	10249.5	13199.5	14760.7	15386.8	15679.0	11880.3
57.5°	2334.9	2209.6	2485.2	3372.9	4483.3	6893.3	10180.0	12857.2	14218.0	14746.8	11257.0
60°	1218.9	1266.2	1374.8	1692.0	2318.2	3578.9	6345.1	8568.7	10647.5	11460.1	8532.5
62.5°	1010.2	1026.9	1099.3	1257.9	1541.7	2059.4	3239.3	4177.2	5429.5	6161.4	4853.4
65°	857.1	865.5	943.4	1049.2	1230.1	1449.9	1667.0	1744.9	2112.2	2167.9	1725.4
67.5°	715.2	723.6	807.1	907.2	1024.1	1082.6	1138.2	1132.7	1174.4	1157.7	1154.9
70°	551.0	559.4	645.6	751.4	809.8	776.4	949.0	987.9	1004.6	1018.6	1040.8
72.5°	398.0	414.7	481.4	556.6	526.0	603.9	782.0	840.4	862.7	871.1	898.9
75°	289.4	295.0	311.7	289.4	334.0	420.2	551.0	623.4	651.2	659.6	701.3
77.5°	128.0	130.8	133.6	167.0	214.3	261.6	328.4	386.8	425.8	436.9	448.1
80°	66.8	69.6	86.3	114.1	153.1	192.0	239.3	272.7	297.8	300.6	311.7
82.5°	41.7	44.5	61.2	80.7	108.5	141.9	175.3	203.2	222.6	225.4	228.2
85°	19.5	25.0	36.2	50.1	72.4	91.8	94.6	80.7	86.3	89.1	83.5
87.5°	5.6	8.3	11.1	8.3	11.1	11.1	13.9	16.7	16.7	16.7	19.5
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°	3130.8	3130.8	3130.8	3130.8	3130.8	3130.8	3130.8	3130.8	3130.8	3130.8	3130.8
2.5°	3180.9	3155.8	3058.4	3022.3	2927.6	2944.3	2894.3	2891.5	2880.3	2877.6	2874.8
5°	3258.8	3180.9	3064.0	2975.0	2922.1	2916.5	2880.3	2880.3	2891.5	2899.8	2880.3
7.5°	3386.8	3297.8	3100.2	3016.7	2969.4	2961.0	2936.0	2916.5	2941.6	2933.2	2910.9
10°	3534.3	3378.5	3169.8	3097.4	3019.5	3000.0	3000.0	3008.4	2966.6	2980.5	2958.3
12.5°	3698.5	3489.8	3258.8	3175.3	3083.5	3072.4	3066.8	3005.6	3027.8	3016.7	2961.0
15°	3907.2	3617.8	3372.9	3231.0	3153.1	3103.0	3030.6	3019.5	3005.6	2977.7	2952.7
17.5°	4132.7	3757.0	3425.8	3247.7	3130.8	3094.6	3039.0	2980.5	2938.8	2944.3	2924.9
20°	4324.7	3885.0	3445.3	3264.4	3114.1	3044.5	2958.3	2922.1	2877.6	2874.8	2872.0
22.5°	4552.9	4057.5	3473.1	3219.9	3064.0	2991.7	2933.2	2869.2	2838.6	2799.6	2819.1
25°	4825.6	4124.3	3478.7	3194.8	3027.8	2899.8	2869.2	2799.6	2788.5	2732.8	2744.0
27.5°	5023.2	4160.5	3434.1	3116.9	2944.3	2846.9	2791.3	2741.2	2721.7	2680.0	2668.8
30°	5287.6	4216.1	3339.5	3019.5	2860.9	2752.3	2718.9	2707.8	2652.1	2607.6	2602.0
32.5°	5588.1	4252.3	3278.3	2919.3	2774.6	2691.1	2707.8	2654.9	2585.3	2546.4	2535.3
35°	5827.5	4266.2	3125.2	2805.2	2716.1	2663.3	2643.8	2632.7	2532.5	2496.3	2468.5
37.5°	6192.0	4235.6	2997.2	2724.5	2652.1	2632.7	2616.0	2540.8	2426.7	2373.8	2334.9
40°	6617.8	4227.3	2833.0	2610.4	2590.9	2613.2	2563.1	2446.2	2287.6	2229.1	2201.3
42.5°	7026.9	4285.7	2730.1	2549.2	2524.1	2532.5	2462.9	2287.6	2209.6	2176.3	2131.7
45°	7711.5	4408.2	2560.3	2454.5	2443.4	2437.8	2354.4	2170.7	2126.2	2084.4	2076.1
47.5°	8329.3	4327.5	2451.8	2357.1	2368.3	2337.7	2159.6	2101.1	2051.0	2009.3	1995.4
50°	8365.5	4135.4	2298.7	2282.0	2284.8	2231.9	2062.2	2023.2	1959.2	1931.4	1911.9
52.5°	8176.3	3821.0	2156.8	2162.3	2170.7	2084.4	1942.5	1914.7	1861.8	1822.8	1811.7
55°	7644.7	3331.2	2017.6	2039.9	2062.2	1898.0	1853.4	1783.9	1742.1	1686.5	1689.2
57.5°	6734.7	2682.7	1822.8	1859.0	1906.3	1725.4	1692.0	1605.8	1544.5	1500.0	1494.4
60°	4513.9	1909.1	1530.6	1544.5	1650.3	1577.9	1575.1	1488.9	1405.4	1366.4	1344.2
62.5°	2663.3	1458.3	1321.9	1308.0	1305.2	1346.9	1416.5	1385.9	1277.4	1202.2	1224.5
65°	1394.2	1260.7	1230.1	1182.7	1154.9	1143.8	1196.7	1210.6	1138.2	1057.5	1051.9
67.5°	1171.6	1171.6	1146.6	1129.9	1090.9	1043.6	1010.2	965.7	954.5	932.3	904.5
70°	1065.9	1093.7	1085.3	1046.4	1013.0	960.1	873.8	801.5	731.9	706.9	723.6
72.5°	929.5	957.3	957.3	937.8	893.3	812.6	729.1	645.6	587.2	542.7	537.1
75°	715.2	729.1	762.5	740.3	681.8	631.7	545.5	459.2	403.5	361.8	353.4
77.5°	456.4	478.7	478.7	475.9	434.1	386.8	331.2	269.9	228.2	197.6	189.2
80°	303.3	317.3	328.4	317.3	289.4	253.2	211.5	169.8	139.1	114.1	108.5
82.5°	222.6	239.3	247.7	236.5	208.7	180.9	150.3	119.7	89.1	69.6	64.0
85°	86.3	89.1	100.2	119.7	116.9	114.1	91.8	66.8	50.1	36.2	33.4
87.5°	22.3	19.5	22.3	22.3	19.5	16.7	16.7	16.7	16.7	8.3	11.1
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)