

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: P529258

Luminaire Tested: **GALN-SA4B-827-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-827-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14108 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

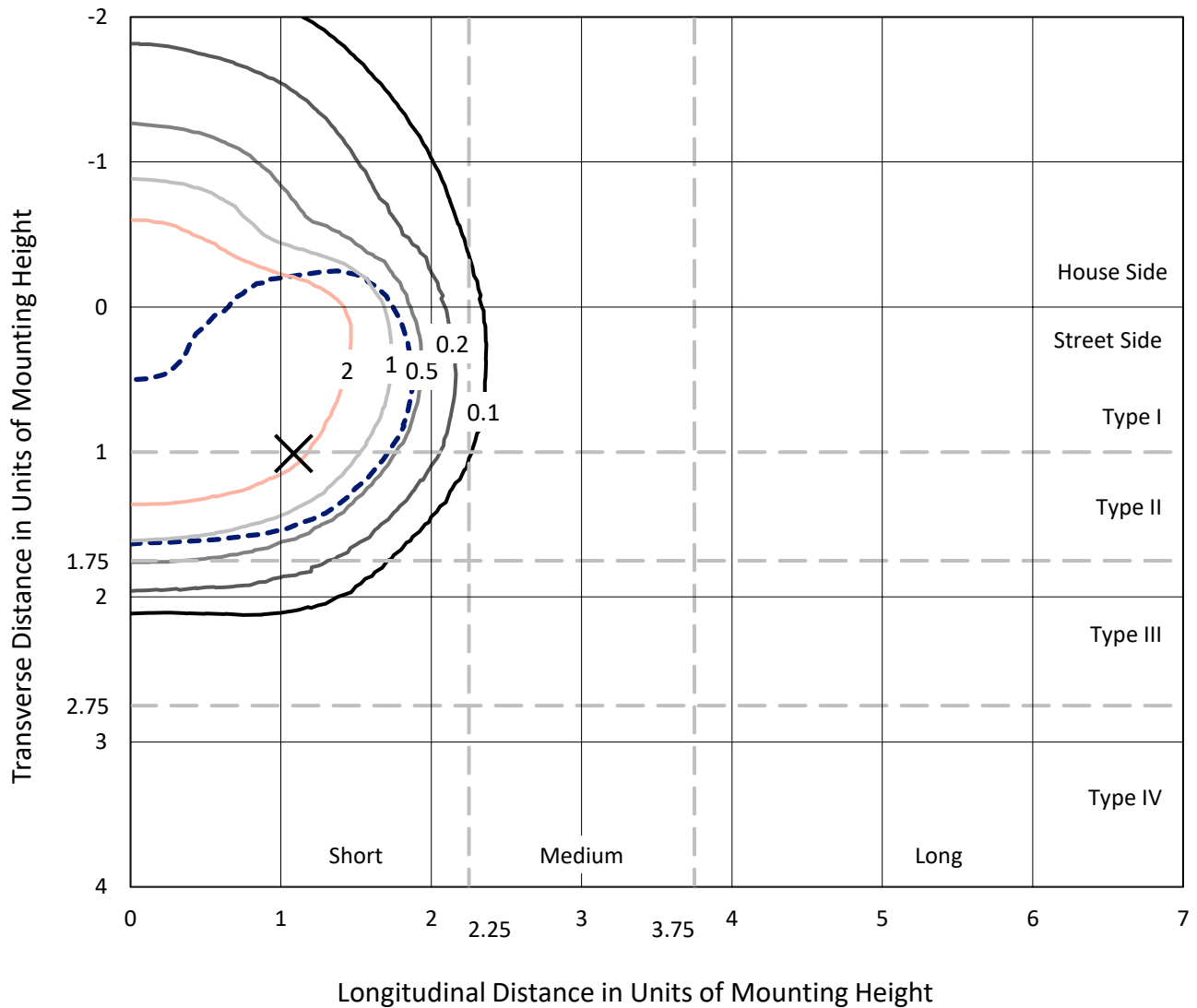
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

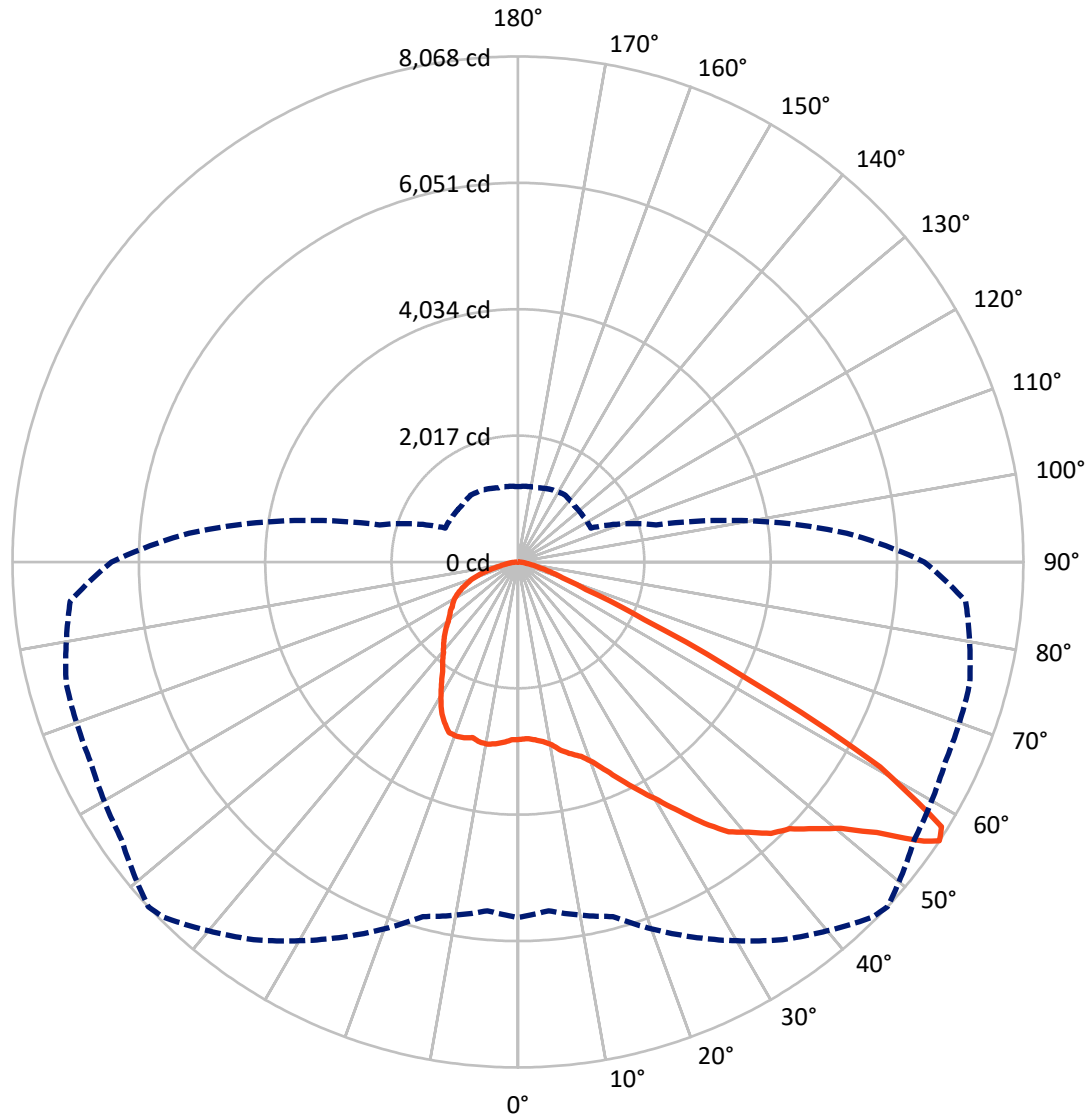
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA4B-827-U-T3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4470.7	0.0	4470.7
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	9637.3	0.0	9637.3
	% Fixture	68.3	0.0	68.3
Total	Lumens	14108.0	0.0	14108.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.1	2.0
10°-20°	871.0	6.2
20°-30°	1539.8	10.9
30°-40°	2312.7	16.4
40°-50°	3173.9	22.5
50°-60°	3781.3	26.8
60°-70°	1618.2	11.5
70°-80°	457.9	3.2
80°-90°	77.1	0.5
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°	14108.0	100.0
0°-180°	14108.0	100.0

Coefficient of Utilization

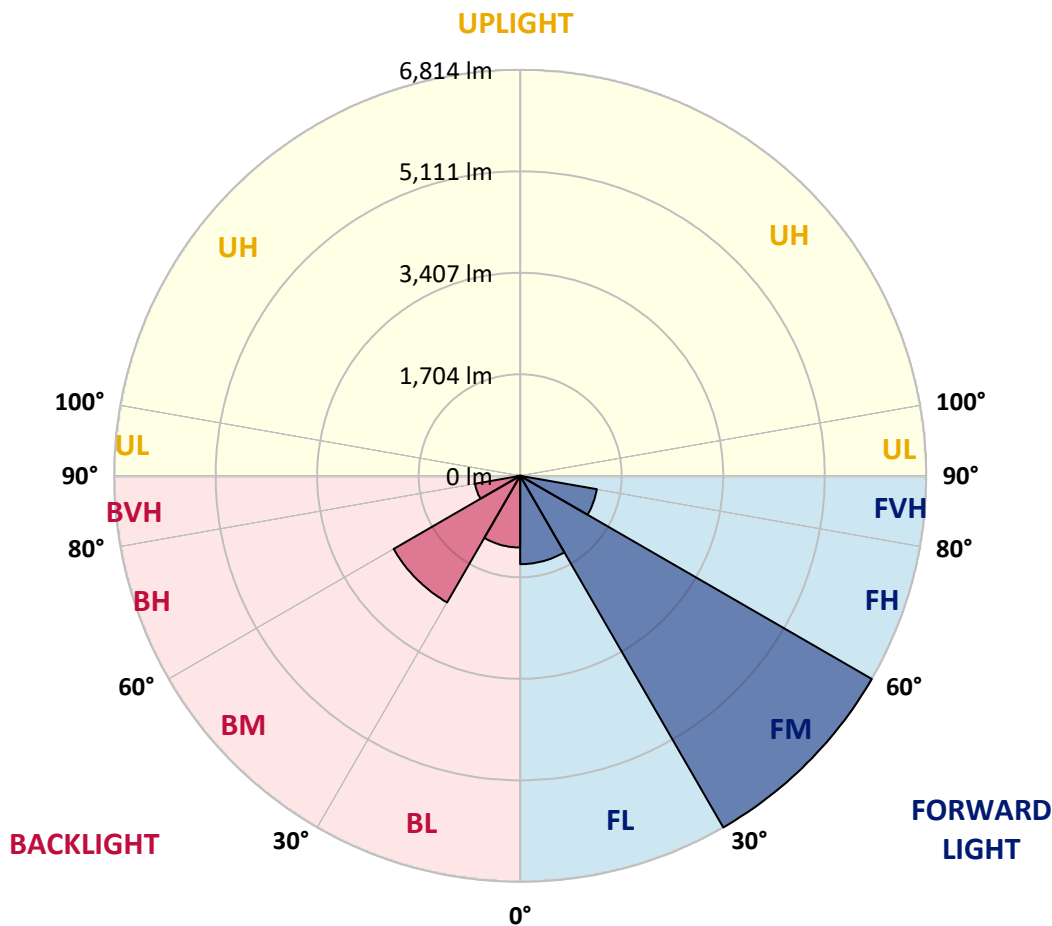


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1483.2	10.5			
FM (30°-60°)	6814.5	48.3			
FH (60°-80°)	1306.9	9.3			G1/1800
FVH (80°-90°)	32.7	0.2			G1/100
BL (0°-30°)	1203.7	8.5	B3/2500		
BM (30°-60°)	2453.4	17.4	B2/2500		
BH (60°-80°)	769.2	5.5	B2/1000		G2/1000
BVH (80°-90°)	44.4	0.3			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°	47°	55°	65°	75°	85°
0°	2833.9	2833.9	2833.9	2833.9	2833.9	2833.9	2833.9	2833.9	2833.9	2833.9	2833.9
2.5°	2823.1	2817.7	2814.1	2842.9	2832.1	2833.9	2823.1	2833.9	2841.1	2824.9	2848.3
5°	2817.7	2833.9	2819.5	2828.5	2851.9	2844.7	2851.9	2873.5	2868.1	2862.7	2855.5
7.5°	2868.1	2869.9	2880.6	2884.2	2891.4	2884.2	2895.0	2914.8	2909.4	2878.9	2882.4
10°	2940.0	2943.6	2945.4	2965.2	2977.8	2979.6	2967.0	2949.0	2947.2	2988.6	2959.8
12.5°	3022.8	3013.8	3035.4	3042.6	3057.0	3073.2	3089.4	3051.6	3075.0	3076.8	3042.6
15°	3143.3	3152.3	3127.2	3127.2	3132.5	3134.3	3179.3	3161.3	3157.7	3137.9	3152.3
17.5°	3323.3	3262.1	3260.3	3235.1	3231.5	3245.9	3262.1	3276.5	3325.1	3285.5	3208.1
20°	3454.6	3469.0	3416.8	3386.2	3391.6	3424.0	3407.8	3472.6	3506.8	3442.0	3366.5
22.5°	3686.7	3638.1	3650.7	3582.4	3587.8	3622.0	3620.2	3686.7	3706.5	3604.0	3494.2
25°	3843.3	3830.7	3841.5	3787.5	3794.7	3821.7	3864.9	3974.6	3942.2	3828.9	3575.2
27.5°	4071.8	4046.6	4037.6	4017.8	4010.6	4082.6	4132.9	4249.9	4226.5	4061.0	3719.1
30°	4305.7	4289.5	4298.5	4217.5	4246.3	4399.2	4413.6	4573.8	4563.0	4271.5	3879.3
32.5°	4467.6	4476.6	4492.8	4447.8	4575.6	4697.9	4746.5	4928.2	4937.2	4633.2	4188.7
35°	4728.5	4697.9	4706.9	4759.1	4818.5	5041.6	5120.8	5241.3	5316.9	5012.8	4485.6
37.5°	4892.2	4924.6	4886.8	4969.6	5124.4	5392.4	5464.4	5588.6	5667.7	5387.0	4890.4
40°	5147.7	5095.6	5122.6	5181.9	5340.3	5689.3	5669.5	5797.3	5822.5	5705.5	5268.3
42.5°	5423.0	5397.8	5360.1	5495.0	5628.2	5881.9	5921.4	5862.1	5989.8	6016.8	5808.1
45°	5752.3	5782.9	5788.3	5791.9	5908.8	6130.2	6076.2	6024.0	6171.5	6367.7	6142.7
47.5°	6058.2	5961.0	6031.2	6128.4	6293.9	6295.7	6358.7	6234.5	6391.0	6565.6	6445.0
50°	6160.7	6114.0	6207.5	6391.0	6646.5	6673.5	6680.7	6504.4	6585.4	6723.9	6549.4
52.5°	6121.2	6105.0	6344.3	6628.6	7002.8	7139.5	7175.5	6957.8	7002.8	6939.8	6779.7
55°	5932.2	5980.8	6221.9	6801.3	7375.3	7798.1	7866.5	7591.2	7305.1	7353.7	7177.3
56°	5673.1	5588.6	5858.5	6605.2	7359.1	8012.2	8068.0	7724.3	7530.0	7467.0	7173.7
57.5°	4813.1	4703.3	5057.8	5943.0	6950.6	7931.2	7972.6	7780.1	7492.2	7364.5	6650.1
60°	2817.7	2871.7	3321.5	4098.8	5361.9	6502.6	6641.1	6781.5	6589.0	6016.8	4949.8
62.5°	1360.3	1326.1	1648.1	2349.9	3267.5	4150.9	4109.6	4503.6	4719.5	4275.1	3125.4
65°	712.5	708.9	899.6	1282.9	1795.7	2180.7	2218.5	2430.8	2727.7	2202.3	1587.0
67.5°	523.6	538.0	633.3	901.4	1155.1	1178.5	1173.1	1279.3	1308.1	1106.6	975.2
70°	410.2	417.4	487.6	685.5	860.1	770.1	753.9	766.5	851.1	887.0	843.9
72.5°	296.9	304.1	363.5	462.4	538.0	525.4	536.2	606.4	710.7	748.5	703.5
75°	197.9	203.3	235.7	282.5	318.5	343.7	363.5	444.4	541.6	563.2	541.6
77.5°	136.7	142.1	163.7	199.7	203.3	219.5	226.7	264.5	323.9	350.9	336.5
80°	77.4	77.4	88.2	102.6	125.9	147.5	151.1	181.7	208.7	226.7	230.3
82.5°	36.0	37.8	46.8	63.0	82.8	102.6	106.2	125.9	145.7	163.7	169.1
85°	18.0	19.8	27.0	37.8	50.4	61.2	59.4	61.2	64.8	61.2	63.0
87.5°	5.4	5.4	7.2	9.0	7.2	9.0	9.0	10.8	12.6	14.4	16.2
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°	2833.9	2833.9	2833.9	2833.9	2833.9	2833.9	2833.9	2833.9	2833.9	2833.9	2833.9
2.5°	2850.1	2855.5	2819.5	2853.7	2841.1	2839.3	2864.5	2860.9	2869.9	2866.3	2844.7
5°	2851.9	2839.3	2877.1	2842.9	2859.1	2893.2	2869.9	2923.8	2896.8	2914.8	2875.3
7.5°	2907.6	2911.2	2904.0	2918.4	2911.2	2927.4	2914.8	2927.4	2905.8	2907.6	2943.6
10°	2956.2	2945.4	2958.0	2940.0	2952.6	2947.2	2918.4	2909.4	2916.6	2907.6	2931.0
12.5°	3046.2	3026.4	3017.4	2995.8	2981.4	2927.4	2882.4	2857.3	2891.4	2896.8	2886.0
15°	3137.9	3139.7	3098.4	3049.8	2959.8	2878.9	2889.6	2898.6	2898.6	2913.0	2886.0
17.5°	3195.5	3195.5	3157.7	3060.6	2968.8	2922.0	2911.2	2882.4	2857.3	2853.7	2851.9
20°	3296.3	3265.7	3179.3	3058.8	2965.2	2943.6	2862.7	2794.3	2742.1	2724.1	2722.3
22.5°	3411.4	3334.1	3213.5	3062.4	2959.8	2929.2	2778.1	2675.5	2582.0	2542.4	2547.8
25°	3517.6	3393.4	3233.3	3046.2	2940.0	2792.5	2623.4	2481.2	2384.0	2351.7	2335.5
27.5°	3591.4	3456.4	3233.3	3060.6	2866.3	2639.5	2466.8	2285.1	2200.5	2178.9	2182.5
30°	3690.3	3535.6	3289.1	3030.0	2718.7	2441.6	2234.7	2116.0	2065.6	2047.6	2060.2
32.5°	3922.4	3742.5	3366.5	2956.2	2544.2	2243.7	2076.4	2009.8	1936.0	1900.0	1887.4
35°	4174.3	3938.6	3442.0	2832.1	2348.1	2063.8	1959.4	1898.2	1810.1	1770.5	1777.7
37.5°	4530.6	4190.5	3447.4	2627.0	2135.7	1963.0	1867.7	1772.3	1700.3	1639.1	1621.2
40°	5011.0	4534.2	3434.8	2411.0	1964.8	1844.3	1774.1	1655.3	1574.4	1531.2	1540.2
42.5°	5433.8	4937.2	3382.6	2166.3	1810.1	1763.3	1684.1	1567.2	1488.0	1443.0	1439.4
45°	5790.1	5234.1	3283.7	1957.6	1680.5	1673.3	1581.6	1491.6	1428.6	1387.2	1405.2
47.5°	6119.4	5473.4	3134.3	1748.9	1561.8	1576.2	1488.0	1432.2	1392.6	1354.9	1353.1
50°	6238.1	5469.8	3003.0	1576.2	1466.4	1459.2	1455.6	1396.2	1354.9	1322.5	1336.9
52.5°	6436.0	5531.0	2860.9	1457.4	1380.0	1381.8	1394.4	1351.3	1304.5	1284.7	1302.7
55°	6720.3	5540.0	2547.8	1318.9	1308.1	1320.7	1320.7	1291.9	1252.3	1236.1	1227.1
56°	6488.2	5271.9	2285.1	1282.9	1272.1	1272.1	1306.3	1273.9	1225.3	1212.7	1201.9
57.5°	5984.4	4618.8	1912.6	1239.7	1223.5	1248.7	1266.7	1232.5	1187.5	1169.5	1180.3
60°	4127.6	3125.4	1437.6	1146.1	1146.1	1187.5	1201.9	1151.5	1131.7	1129.9	1115.6
62.5°	2409.2	1820.9	1124.6	1061.6	1065.2	1099.4	1110.2	1081.4	1056.2	1086.8	1101.2
65°	1277.5	1086.8	964.4	971.6	973.4	1000.4	1047.2	1045.4	1043.6	1052.6	1054.4
67.5°	924.8	903.2	876.3	869.1	872.7	892.4	939.2	975.2	973.4	951.8	935.6
70°	824.1	793.5	777.3	779.1	764.7	788.1	825.9	849.3	807.9	782.7	771.9
72.5°	685.5	676.5	665.7	667.5	638.7	633.3	590.2	590.2	579.4	572.2	584.8
75°	523.6	520.0	525.4	516.4	485.8	453.4	428.2	404.8	368.9	354.5	347.3
77.5°	331.1	341.9	354.5	334.7	322.1	298.7	273.5	250.1	221.3	205.1	205.1
80°	224.9	233.9	242.9	239.3	224.9	203.3	183.5	158.3	138.5	125.9	124.2
82.5°	170.9	178.1	190.7	176.3	161.9	143.9	127.7	109.8	91.8	77.4	77.4
85°	61.2	70.2	77.4	84.6	90.0	91.8	79.2	64.8	52.2	41.4	39.6
87.5°	16.2	18.0	19.8	18.0	18.0	18.0	19.8	18.0	16.2	12.6	12.6
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)