

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: P652055

Luminaire Tested: **GALN-SA8A-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-840-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26323.3 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

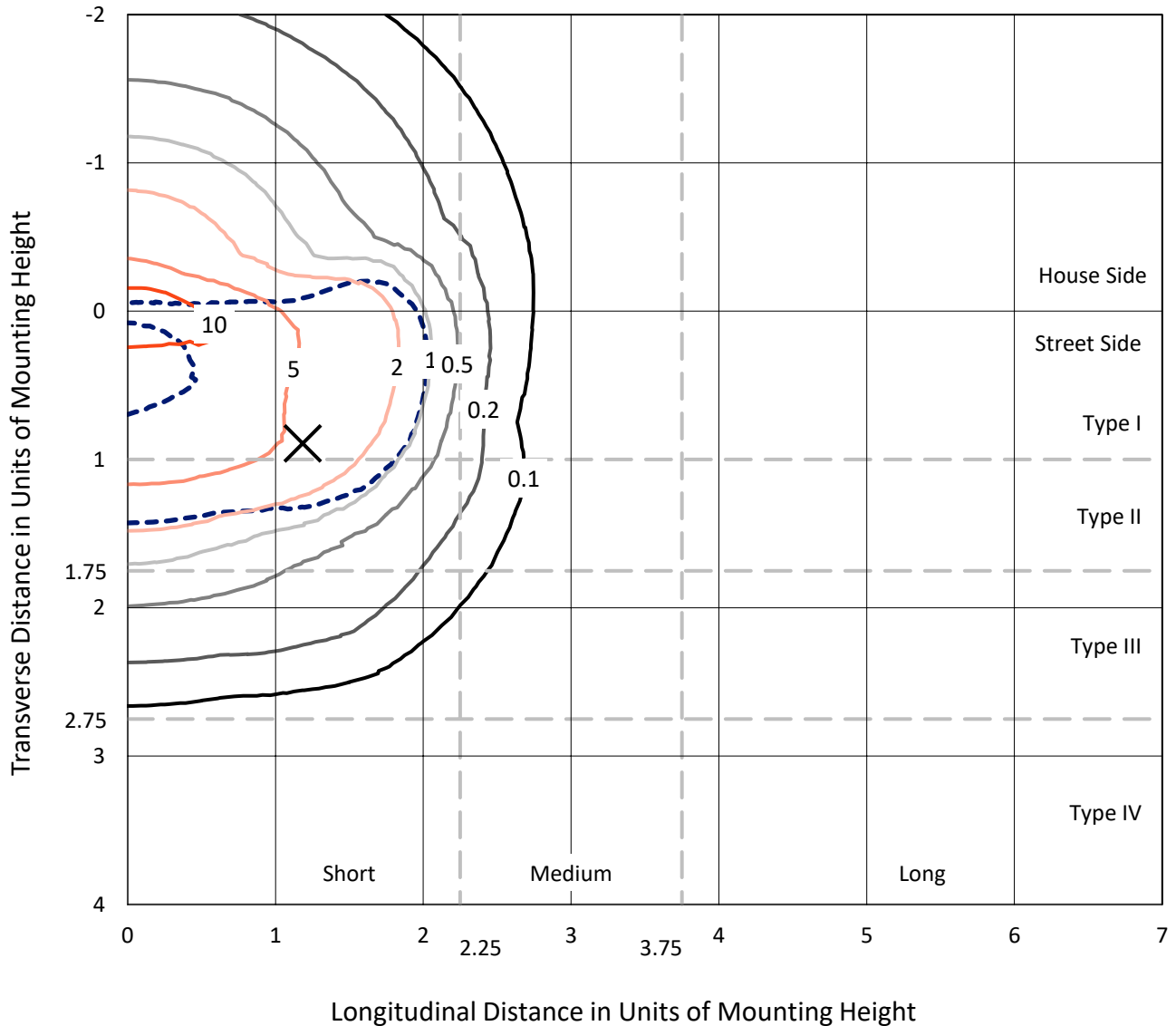
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

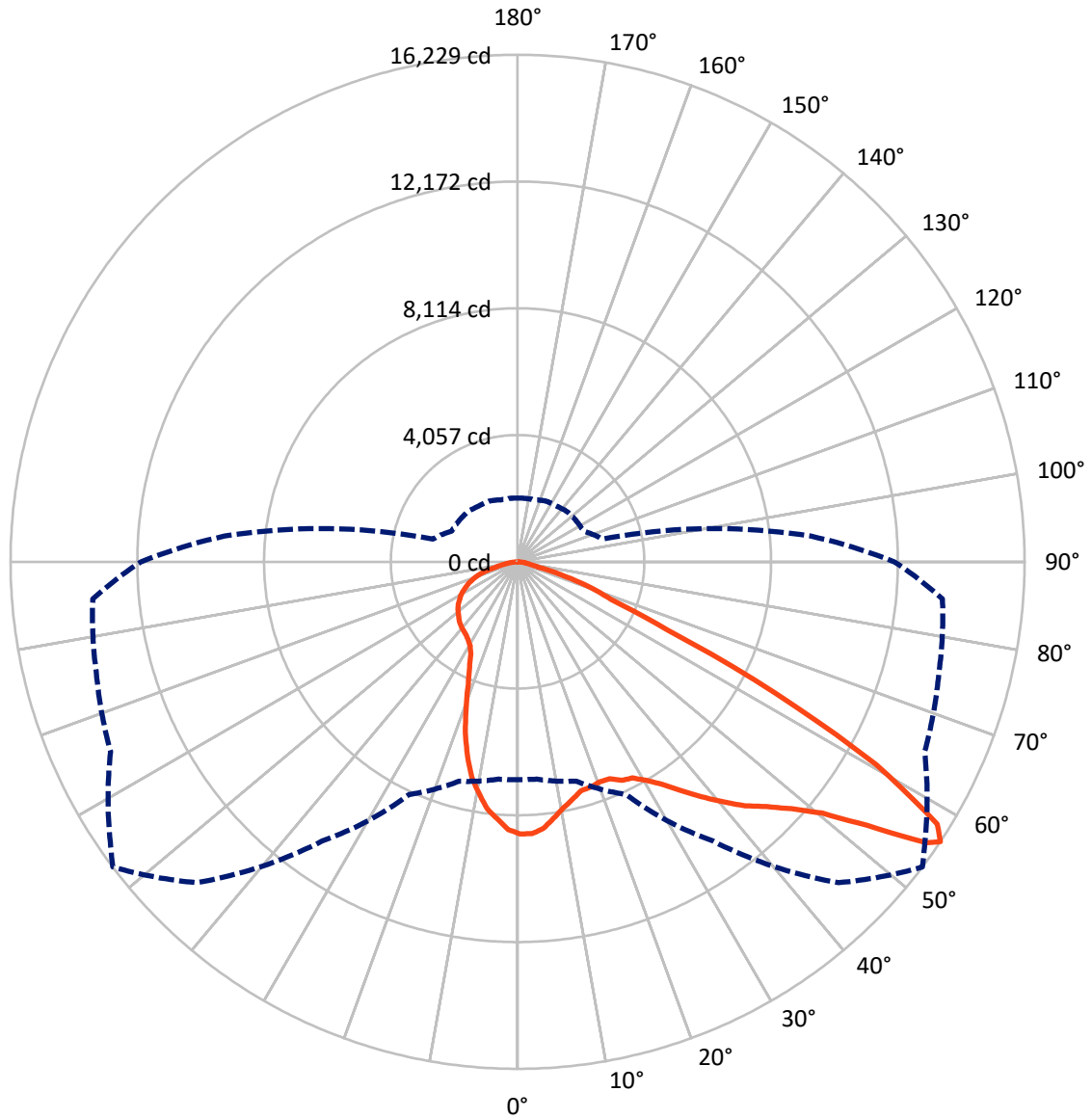
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7681.7	0.0	7681.7
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	18641.6	0.0	18641.6
	% Fixture	70.8	0.0	70.8
Total	Lumens	26323.3	0.0	26323.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	771.0	2.9
10°-20°	1925.6	7.3
20°-30°	2839.4	10.8
30°-40°	4057.0	15.4
40°-50°	5583.9	21.2
50°-60°	6598.6	25.1
60°-70°	3516.6	13.4
70°-80°	892.1	3.4
80°-90°	139.1	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°	26323.3	100.0
0°-180°	26323.3	100.0



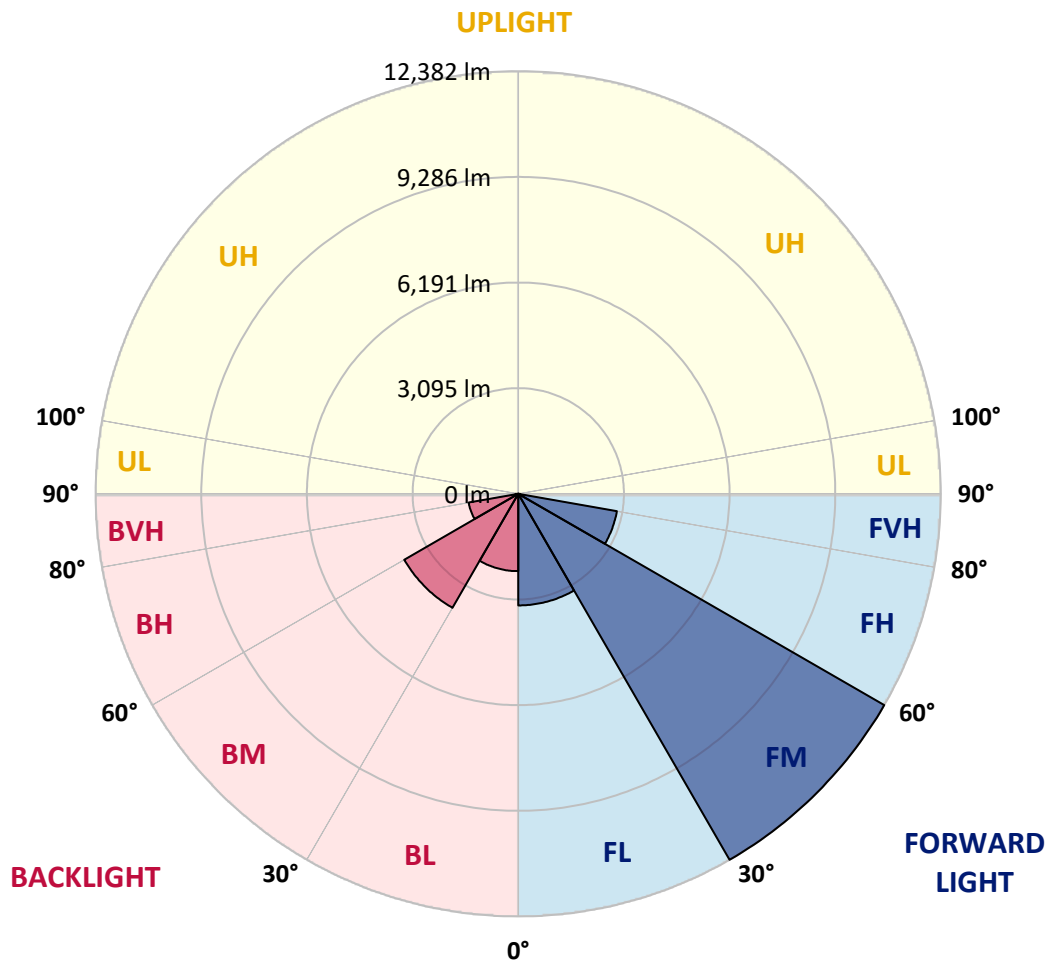
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3270.3	12.4			
FM (30°-60°)	12382.0	47.0			
FH (60°-80°)	2933.4	11.1			G2/5000
FVH (80°-90°)	55.9	0.2			G1/100
BL (0°-30°)	2265.7	8.6	B3/2500		
BM (30°-60°)	3857.5	14.7	B3/5000		
BH (60°-80°)	1475.4	5.6	B3/2500		G3/2500
BVH (80°-90°)	83.2	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8708.8	8708.8	8708.8	8708.8	8708.8	8708.8	8708.8	8708.8	8708.8	8708.8	8708.8
2.5°	8600.7	8526.5	8570.3	8553.5	8691.9	8732.4	8712.2	8729.1	8806.7	8769.5	8691.9
5°	8036.8	8141.5	8161.7	8212.4	8293.4	8452.1	8577.1	8610.8	8648.0	8820.2	8803.3
7.5°	7523.5	7594.4	7557.3	7705.9	7881.4	8138.1	8290.1	8317.1	8658.1	8752.7	8823.6
10°	7199.4	7128.4	7297.3	7337.8	7537.0	7830.8	8013.1	8124.6	8435.2	8810.1	8854.0
12.5°	6898.8	6875.2	6976.5	7091.3	7314.2	7618.1	7803.8	7847.7	8327.2	8722.3	8928.3
15°	6675.9	6648.9	6750.2	6834.6	7094.7	7364.8	7601.2	7726.1	8209.0	8671.6	8864.1
17.5°	6500.3	6497.0	6554.4	6706.3	6973.1	7199.4	7580.9	7587.7	8148.2	8749.3	8918.1
20°	6490.2	6486.9	6497.0	6665.9	6909.0	7185.8	7516.8	7577.6	8148.2	8695.3	8921.5
22.5°	6574.6	6520.6	6581.4	6689.5	6865.1	7209.5	7540.4	7675.5	8344.1	8962.0	9073.5
25°	6709.8	6723.2	6757.0	6794.1	6895.4	7263.5	7749.7	7861.2	8573.7	9191.7	9282.9
27.5°	6956.2	6949.4	6963.0	6983.2	7071.0	7314.2	7834.2	8121.2	9053.2	9600.3	9509.1
30°	7317.5	7293.9	7347.9	7418.9	7337.8	7476.2	8114.5	8330.6	9498.9	10012.3	9762.3
32.5°	7645.1	7732.9	7834.2	7864.6	7766.6	7793.6	8485.9	8705.4	9870.4	10518.7	10073.0
35°	8053.7	8124.6	8259.6	8354.2	8337.3	8256.3	8992.5	9282.9	10407.3	10890.2	10400.6
37.5°	8452.1	8536.6	8759.4	9039.7	8884.4	8847.2	9532.7	9772.5	10572.8	11089.4	10640.3
40°	9093.7	9090.4	9475.3	9620.5	9759.0	9694.8	10093.3	10174.3	10660.6	11045.5	10647.1
42.5°	9846.8	9799.5	10191.2	10417.5	10596.4	10603.2	10677.5	10650.4	10701.1	10822.7	10576.2
45°	10562.6	10664.0	11059.1	11464.3	11643.2	11663.5	11170.5	11119.8	10772.0	10758.5	10441.1
47.5°	11437.3	11460.9	11785.0	12318.6	12733.9	12592.1	11808.7	11697.3	11082.7	11187.4	10667.3
50°	11487.9	11663.5	11953.9	12581.9	13858.4	13821.2	12636.0	12426.6	11582.4	11795.2	11298.8
52.5°	10427.6	10387.0	10731.5	11758.0	13774.0	15043.6	14007.0	13507.2	12656.3	12494.1	12322.0
55°	7945.6	8040.2	8344.1	9380.8	11960.6	15060.5	15874.4	15465.7	13804.4	13527.5	13328.3
56°	6969.7	6983.2	7270.3	8215.8	10913.8	14523.6	16228.9	15898.0	14375.0	13952.9	13649.1
57.5°	5777.8	5700.0	5848.7	6365.3	9211.9	13389.1	15840.6	16164.8	15043.6	14412.2	13990.1
60°	4548.5	4531.6	4470.9	4565.5	5821.7	10086.5	13186.5	13915.9	14976.1	13979.9	13399.1
62.5°	3714.5	3630.1	3751.6	3886.7	4045.4	6257.2	9266.0	9694.8	11889.7	11160.3	10066.3
65°	2880.4	2839.9	2991.9	3430.9	3525.4	3974.5	5277.9	5608.9	7020.4	6895.4	6071.5
67.5°	1982.2	1989.0	2120.7	2789.3	3268.7	3228.3	3231.6	3403.9	3663.8	2721.7	2370.5
70°	1256.2	1252.8	1323.7	1796.5	2630.6	2657.6	2522.5	2471.8	2343.5	1418.3	1502.7
72.5°	807.0	783.4	820.6	992.8	1360.8	1573.6	1620.9	1651.2	1357.5	1114.3	1208.9
75°	455.9	432.2	418.7	462.6	536.9	621.3	682.1	702.4	786.8	844.2	894.8
77.5°	138.4	125.0	152.0	202.6	266.8	357.9	435.6	449.1	530.2	597.7	648.3
80°	60.8	67.5	94.5	135.1	189.1	253.2	307.3	327.6	381.6	432.2	445.7
82.5°	37.2	40.5	64.2	91.2	131.7	179.0	219.5	226.2	280.3	320.8	330.9
85°	13.5	16.9	33.8	54.0	84.4	114.8	114.8	125.0	114.8	114.8	125.0
87.5°	0.0	0.0	3.4	6.7	6.7	10.1	13.5	13.5	16.9	20.3	23.6
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°	8708.8	8708.8	8708.8	8708.8	8708.8	8708.8	8708.8	8708.8	8708.8	8708.8	8708.8
2.5°	8732.4	8715.5	8688.5	8590.6	8580.5	8550.1	8381.2	8354.2	8381.2	8300.2	8307.0
5°	8715.5	8766.2	8563.6	8465.7	8283.3	8151.6	7999.7	7922.0	7783.5	7695.7	7793.6
7.5°	8789.8	8769.5	8516.3	8303.5	8030.0	7695.7	7429.0	7277.0	7033.9	6966.3	7017.0
10°	8762.8	8654.7	8357.6	8077.3	7560.7	7266.9	6834.6	6415.9	6186.3	6068.2	6051.2
12.5°	8725.6	8695.3	8198.9	7716.0	7172.3	6554.4	5946.5	5551.4	5176.6	5014.5	5038.2
15°	8769.5	8512.9	7901.7	7290.5	6567.9	5757.5	5102.3	4592.4	4332.4	4227.8	4227.8
17.5°	8749.3	8425.1	7759.9	6814.4	5899.3	4940.3	4221.0	3913.7	3805.7	3805.7	3836.1
20°	8759.4	8482.6	7472.9	6338.3	5109.1	4160.3	3636.8	3525.4	3572.7	3589.6	3606.5
22.5°	8816.9	8293.4	7192.6	5814.8	4376.3	3559.2	3302.5	3305.9	3390.3	3481.5	3464.6
25°	8887.8	8219.2	6851.5	5294.9	3815.8	3265.4	3184.4	3174.2	3238.4	3285.6	3292.3
27.5°	8827.0	8090.8	6503.7	4646.5	3356.5	3069.5	3052.7	3059.4	3079.7	3174.2	3143.8
30°	9026.2	8128.0	6068.2	4102.8	3103.3	3005.4	2985.1	2975.0	3005.4	3032.4	3008.8
32.5°	9272.7	7996.3	5743.9	3579.4	2978.3	2958.0	2917.6	2904.1	2921.0	2894.0	2907.4
35°	9380.8	7972.7	5321.8	3204.6	2880.4	2863.5	2839.9	2836.5	2839.9	2816.3	2796.0
37.5°	9441.6	8084.1	4838.9	3032.4	2819.6	2836.5	2782.4	2775.7	2714.9	2728.5	2738.6
40°	9546.3	7911.9	4447.3	2866.9	2782.4	2748.7	2701.5	2691.3	2650.8	2627.1	2650.8
42.5°	9394.3	7861.2	4062.3	2796.0	2728.5	2691.3	2657.6	2600.1	2586.7	2566.4	2552.9
45°	9272.7	7570.8	3717.9	2708.2	2664.3	2644.0	2579.9	2519.1	2468.4	2488.7	2458.3
47.5°	9363.9	7469.5	3376.8	2633.9	2576.5	2552.9	2488.7	2441.4	2390.8	2367.2	2360.4
50°	9728.6	7658.6	3089.7	2579.9	2502.2	2488.7	2404.3	2350.3	2303.0	2286.1	2292.8
52.5°	10599.8	8175.3	2894.0	2468.4	2431.3	2370.5	2323.3	2255.7	2225.3	2171.3	2205.0
55°	11704.0	9016.1	2843.3	2363.8	2343.5	2289.5	2225.3	2174.7	2117.2	2073.4	2063.2
56°	12058.6	9417.9	2802.7	2323.3	2289.5	2259.1	2174.7	2144.3	2053.1	2043.0	2036.2
57.5°	12345.6	9772.5	2809.5	2245.6	2211.8	2184.8	2134.1	2059.9	1999.1	1961.9	1978.8
60°	11697.3	9147.8	2681.2	2127.4	2120.7	2070.0	1999.1	1965.3	1891.0	1847.1	1837.0
62.5°	8695.3	6209.9	2174.7	1975.4	1972.1	1918.0	1837.0	1799.8	1786.4	1725.6	1725.6
65°	5007.8	3893.5	1880.9	1850.5	1823.5	1769.5	1688.4	1658.0	1624.2	1604.0	1587.1
67.5°	2137.5	2019.3	1708.7	1705.3	1674.9	1607.3	1526.3	1479.1	1435.2	1394.6	1414.9
70°	1550.0	1573.6	1543.2	1526.3	1489.2	1404.7	1333.8	1276.5	1208.9	1181.9	1202.1
72.5°	1229.1	1279.8	1323.7	1327.1	1283.2	1185.2	1107.6	1029.9	955.6	918.5	935.4
75°	932.0	965.8	1009.7	1019.8	955.6	888.1	813.8	732.8	675.3	631.4	638.2
77.5°	672.0	665.2	705.8	699.0	668.6	621.3	553.8	479.5	415.4	374.8	378.2
80°	459.3	469.4	493.0	489.6	452.5	422.1	371.5	310.7	263.4	229.6	222.9
82.5°	320.8	337.7	357.9	341.0	310.7	280.3	243.1	199.2	162.1	135.1	128.3
85°	114.8	131.7	152.0	162.1	172.2	165.4	138.4	111.4	81.1	67.5	64.2
87.5°	23.6	27.0	30.4	30.4	30.4	27.0	23.6	23.6	20.3	10.1	10.1
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)