

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: P648177

Luminaire Tested: **GALN-SA9A-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648177
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-SA9A-835-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 615mA 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: 27675.9 lumens
Efficiency: N/A
Efficacy: 101.0 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

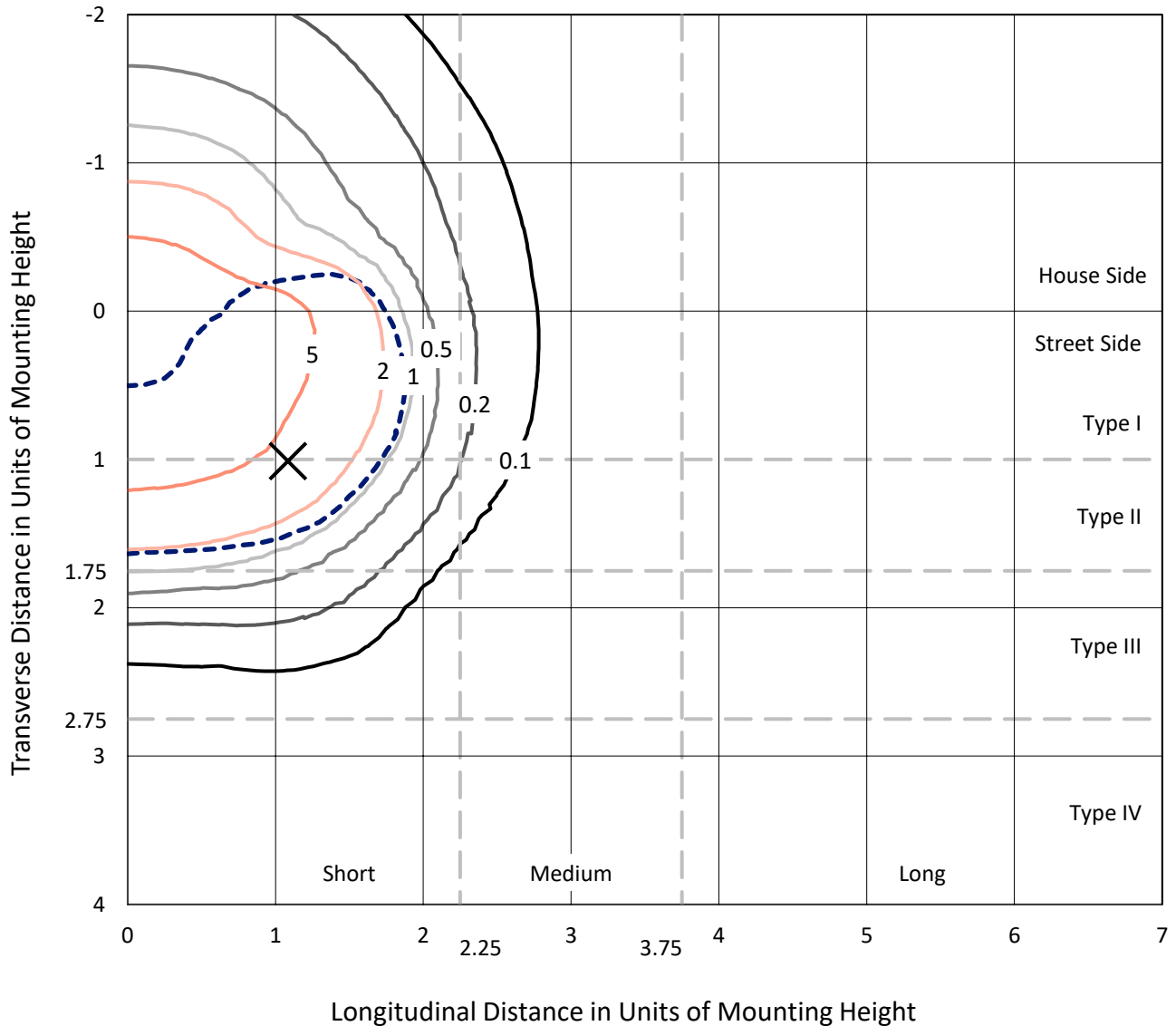
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

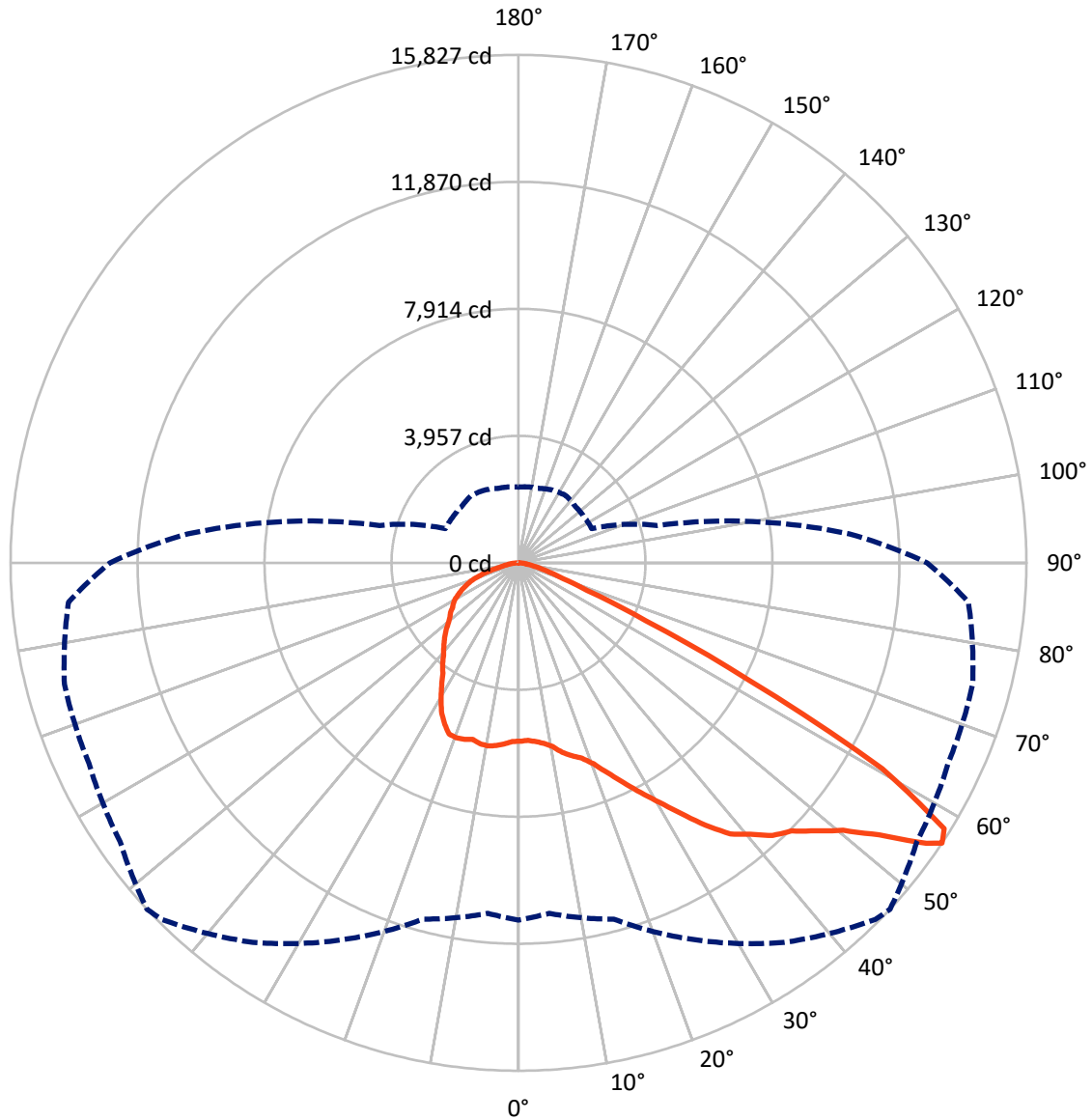
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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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	8770.2	0.0	8770.2
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	18905.8	0.0	18905.8
	% Fixture	68.3	0.0	68.3
Total	Lumens	27675.9	0.0	27675.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.7	2.0
10°-20°	1708.7	6.2
20°-30°	3020.6	10.9
30°-40°	4536.8	16.4
40°-50°	6226.3	22.5
50°-60°	7417.9	26.8
60°-70°	3174.4	11.5
70°-80°	898.4	3.2
80°-90°	151.2	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°	27675.9	100.0
0°-180°	27675.9	100.0

Coefficient of Utilization



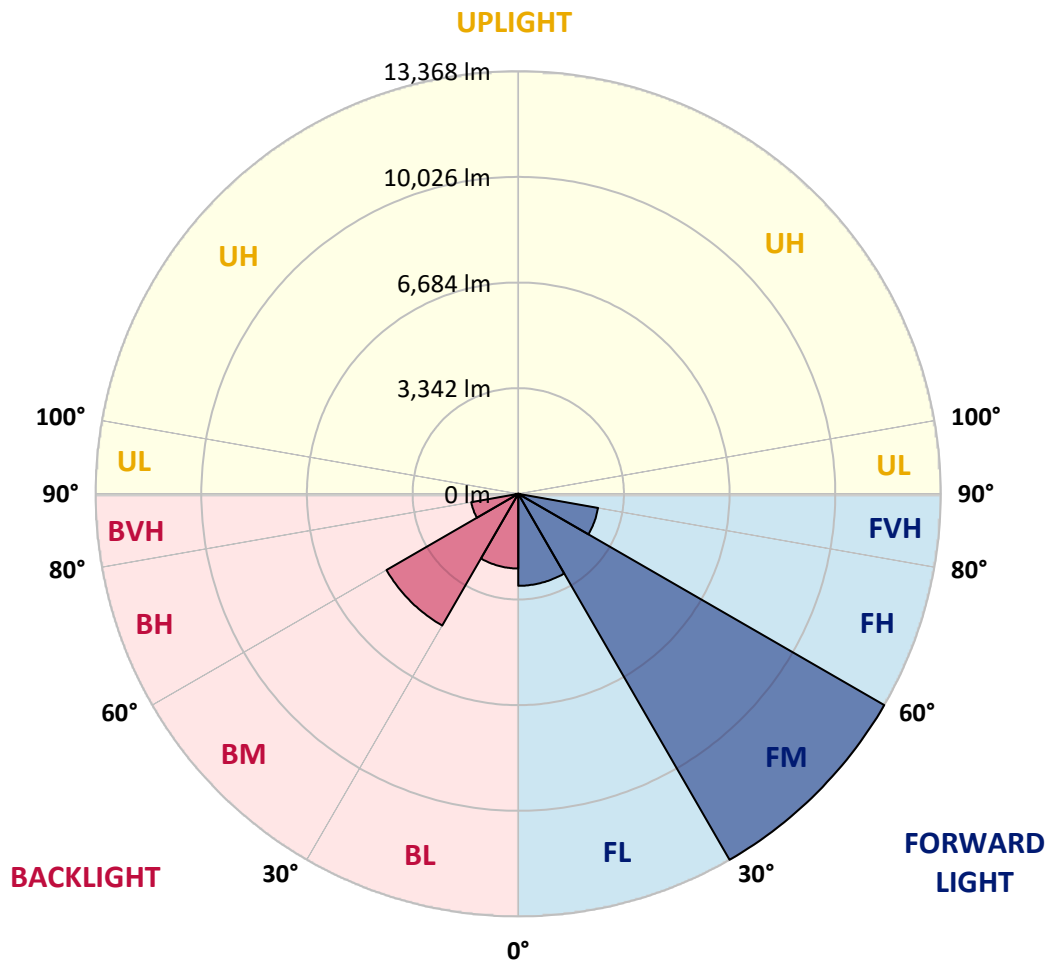
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2909.7	10.5			
FM (30°-60°)	13368.1	48.3			
FH (60°-80°)	2563.8	9.3			G2/5000
FVH (80°-90°)	64.2	0.2			G1/100
BL (0°-30°)	2361.3	8.5	B3/2500		
BM (30°-60°)	4812.9	17.4	B3/5000		
BH (60°-80°)	1508.9	5.5	B3/2500		G3/2500
BVH (80°-90°)	87.0	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°	47°	55°	65°	75°	85°
0°	5559.2	5559.2	5559.2	5559.2	5559.2	5559.2	5559.2	5559.2	5559.2	5559.2	5559.2
2.5°	5538.1	5527.5	5520.5	5576.9	5555.7	5559.2	5538.1	5559.2	5573.4	5541.6	5587.5
5°	5527.5	5559.2	5531.0	5548.7	5594.5	5580.4	5594.5	5636.9	5626.3	5615.8	5601.6
7.5°	5626.3	5629.8	5651.0	5658.1	5672.2	5658.1	5679.3	5718.1	5707.5	5647.5	5654.6
10°	5767.5	5774.5	5778.1	5816.9	5841.6	5845.2	5820.4	5785.1	5781.6	5862.8	5806.3
12.5°	5929.9	5912.2	5954.6	5968.7	5996.9	6028.7	6060.5	5986.3	6032.2	6035.8	5968.7
15°	6166.4	6184.0	6134.6	6134.6	6145.1	6148.7	6237.0	6201.7	6194.6	6155.8	6184.0
17.5°	6519.3	6399.3	6395.8	6346.4	6339.3	6367.5	6399.3	6427.6	6522.9	6445.2	6293.4
20°	6777.0	6805.2	6702.9	6642.9	6653.5	6717.0	6685.3	6812.3	6879.4	6752.3	6604.1
22.5°	7232.3	7137.0	7161.7	7027.6	7038.2	7105.3	7101.7	7232.3	7271.2	7069.9	6854.6
25°	7539.4	7514.7	7535.9	7430.0	7444.1	7497.1	7581.8	7797.0	7733.5	7511.2	7013.5
27.5°	7987.7	7938.3	7920.6	7881.8	7867.7	8008.8	8107.7	8337.1	8291.2	7966.5	7295.8
30°	8446.5	8414.7	8432.4	8273.6	8330.0	8630.1	8658.3	8972.5	8951.3	8379.4	7610.0
32.5°	8764.2	8781.8	8813.6	8725.4	8976.0	9216.0	9311.3	9667.8	9685.5	9088.9	8217.1
35°	9276.0	9216.0	9233.7	9336.0	9452.5	9890.2	10045.5	10282.0	10430.2	9833.7	8799.5
37.5°	9597.2	9660.7	9586.6	9749.0	10052.5	10578.5	10719.7	10963.2	11118.5	10567.8	9593.7
40°	10098.4	9996.1	10049.0	10165.5	10476.1	11160.9	11122.0	11372.6	11422.1	11192.6	10334.9
42.5°	10638.5	10589.1	10514.9	10779.6	11040.8	11538.5	11616.2	11499.7	11750.3	11803.3	11393.8
45°	11284.4	11344.4	11355.0	11362.0	11591.5	12025.6	11919.8	11817.3	12106.8	12491.5	12050.4
47.5°	11884.5	11693.9	11831.5	12022.1	12346.8	12350.3	12473.9	12230.4	12537.4	12879.8	12643.3
50°	12085.6	11993.8	12177.4	12537.4	13038.7	13091.6	13105.7	12759.8	12918.6	13190.4	12848.0
52.5°	12008.0	11976.2	12445.6	13003.4	13737.5	14005.8	14076.4	13649.3	13737.5	13614.0	13299.9
55°	11637.3	11732.6	12205.6	13342.2	14468.2	15297.6	15431.8	14891.7	14330.5	14425.8	14079.9
56°	11129.1	10963.2	11492.6	12957.5	14436.4	15717.7	15827.1	15152.9	14771.7	14648.2	14072.9
57.5°	9441.9	9226.6	9921.9	11658.6	13635.2	15558.8	15640.0	15262.3	14697.6	14447.0	13045.7
60°	5527.5	5633.4	6515.8	8040.6	10518.4	12756.2	13028.0	13303.4	12925.7	11803.3	9710.1
62.5°	2668.5	2601.4	3233.2	4609.8	6409.9	8143.0	8061.8	8834.8	9258.3	8386.6	6131.0
65°	1397.7	1390.7	1764.8	2516.6	3522.6	4278.0	4352.1	4768.6	5351.0	4320.4	3113.2
67.5°	1027.1	1055.4	1242.5	1768.4	2266.1	2312.0	2301.3	2509.6	2566.0	2170.8	1913.1
70°	804.8	818.9	956.5	1344.8	1687.2	1510.7	1478.9	1503.7	1669.5	1740.1	1655.4
72.5°	582.4	596.5	713.0	907.1	1055.4	1030.7	1051.9	1189.5	1394.2	1468.4	1380.1
75°	388.3	398.9	462.4	554.1	624.8	674.2	713.0	871.9	1062.5	1104.8	1062.5
77.5°	268.3	278.8	321.2	391.8	398.9	430.6	444.7	518.9	635.3	688.3	660.1
80°	151.7	151.7	173.0	201.2	247.1	289.4	296.5	356.5	409.4	444.7	451.8
82.5°	70.6	74.2	91.8	123.6	162.4	201.2	208.3	247.1	285.9	321.2	331.8
85°	35.3	38.8	52.9	74.2	98.8	120.0	116.5	120.0	127.1	120.0	123.6
87.5°	10.6	10.6	14.1	17.6	14.1	17.6	17.6	21.1	24.7	28.3	31.8
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°	5559.2	5559.2	5559.2	5559.2	5559.2	5559.2	5559.2	5559.2	5559.2	5559.2	5559.2
2.5°	5591.0	5601.6	5531.0	5598.1	5573.4	5569.9	5619.3	5612.2	5629.8	5622.8	5580.4
5°	5594.5	5569.9	5643.9	5576.9	5608.6	5675.7	5629.8	5735.7	5682.8	5718.1	5640.4
7.5°	5704.0	5711.0	5696.9	5725.1	5711.0	5742.8	5718.1	5742.8	5700.5	5704.0	5774.5
10°	5799.3	5778.1	5802.8	5767.5	5792.2	5781.6	5725.1	5707.5	5721.6	5704.0	5749.9
12.5°	5975.8	5936.9	5919.2	5876.9	5848.7	5742.8	5654.6	5605.1	5672.2	5682.8	5661.6
15°	6155.8	6159.3	6078.1	5982.8	5806.3	5647.5	5668.7	5686.3	5686.3	5714.6	5661.6
17.5°	6268.7	6268.7	6194.6	6004.0	5824.0	5732.2	5711.0	5654.6	5605.1	5598.1	5594.5
20°	6466.4	6406.3	6237.0	6000.4	5816.9	5774.5	5615.8	5481.6	5379.2	5344.0	5340.4
22.5°	6692.3	6540.5	6304.0	6007.5	5806.3	5746.4	5449.8	5248.6	5065.1	4987.5	4998.0
25°	6900.5	6657.0	6342.8	5975.8	5767.5	5478.1	5146.3	4867.4	4676.9	4613.3	4581.6
27.5°	7045.3	6780.5	6342.8	6004.0	5622.8	5178.1	4839.2	4482.7	4316.8	4274.5	4281.5
30°	7239.4	6935.8	6452.2	5944.0	5333.3	4789.8	4383.9	4150.9	4052.1	4016.8	4041.5
32.5°	7694.7	7341.7	6604.1	5799.3	4991.0	4401.5	4073.2	3942.6	3797.9	3727.3	3702.7
35°	8188.8	7726.5	6752.3	5555.7	4606.2	4048.6	3843.8	3723.8	3550.8	3473.2	3487.3
37.5°	8887.8	8220.6	6762.8	5153.3	4189.8	3850.9	3663.8	3476.8	3335.6	3215.5	3180.2
40°	9830.2	8894.8	6738.2	4729.8	3854.4	3617.9	3480.3	3247.3	3088.5	3003.7	3021.4
42.5°	10659.6	9685.5	6635.8	4249.7	3550.8	3459.1	3303.8	3074.4	2919.0	2830.8	2823.7
45°	11358.5	10267.9	6441.7	3840.3	3296.7	3282.6	3102.6	2926.1	2802.6	2721.4	2756.7
47.5°	12004.5	10737.3	6148.7	3430.9	3063.8	3092.0	2919.0	2809.6	2732.0	2657.8	2654.3
50°	12237.4	10730.2	5891.1	3092.0	2876.7	2862.6	2855.5	2739.0	2657.8	2594.3	2622.6
52.5°	12625.6	10850.3	5612.2	2859.0	2707.3	2710.8	2735.5	2650.8	2559.0	2520.2	2555.5
55°	13183.4	10867.9	4998.0	2587.3	2566.0	2590.8	2590.8	2534.3	2456.7	2424.9	2407.3
56°	12728.1	10341.9	4482.7	2516.6	2495.5	2495.5	2562.5	2499.0	2403.7	2379.0	2357.8
57.5°	11739.8	9060.7	3752.1	2431.9	2400.2	2449.6	2484.9	2417.8	2329.6	2294.3	2315.5
60°	8097.1	6131.0	2820.2	2248.4	2248.4	2329.6	2357.8	2259.0	2220.2	2216.7	2188.4
62.5°	4726.3	3572.0	2206.0	2082.5	2089.6	2156.6	2177.8	2121.3	2071.9	2132.0	2160.1
65°	2506.1	2132.0	1891.9	1906.1	1909.6	1962.5	2054.3	2050.8	2047.2	2064.8	2068.4
67.5°	1814.3	1771.9	1718.9	1704.8	1711.9	1750.7	1842.5	1913.1	1909.6	1867.2	1835.4
70°	1616.6	1556.6	1524.8	1528.3	1500.1	1546.0	1620.1	1666.0	1584.8	1535.4	1514.2
72.5°	1344.8	1327.2	1306.0	1309.5	1253.0	1242.5	1157.7	1157.7	1136.5	1122.4	1147.2
75°	1027.1	1020.1	1030.7	1013.0	953.0	889.5	840.1	794.2	723.6	695.4	681.2
77.5°	649.5	670.6	695.4	656.5	631.8	585.9	536.5	490.6	434.2	402.4	402.4
80°	441.2	458.8	476.5	469.5	441.2	398.9	360.0	310.6	271.8	247.1	243.5
82.5°	335.4	349.5	374.1	345.9	317.7	282.3	250.6	215.3	180.0	151.7	151.7
85°	120.0	137.7	151.7	165.9	176.5	180.0	155.3	127.1	102.3	81.2	77.7
87.5°	31.8	35.3	38.8	35.3	35.3	35.3	38.8	35.3	31.8	24.7	24.7
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)