

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: P648562

Luminaire Tested: **GALN-SA7B-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648562
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-SA7B-835-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 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: 26458.4 lumens
Efficiency: N/A
Efficacy: 92.5 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

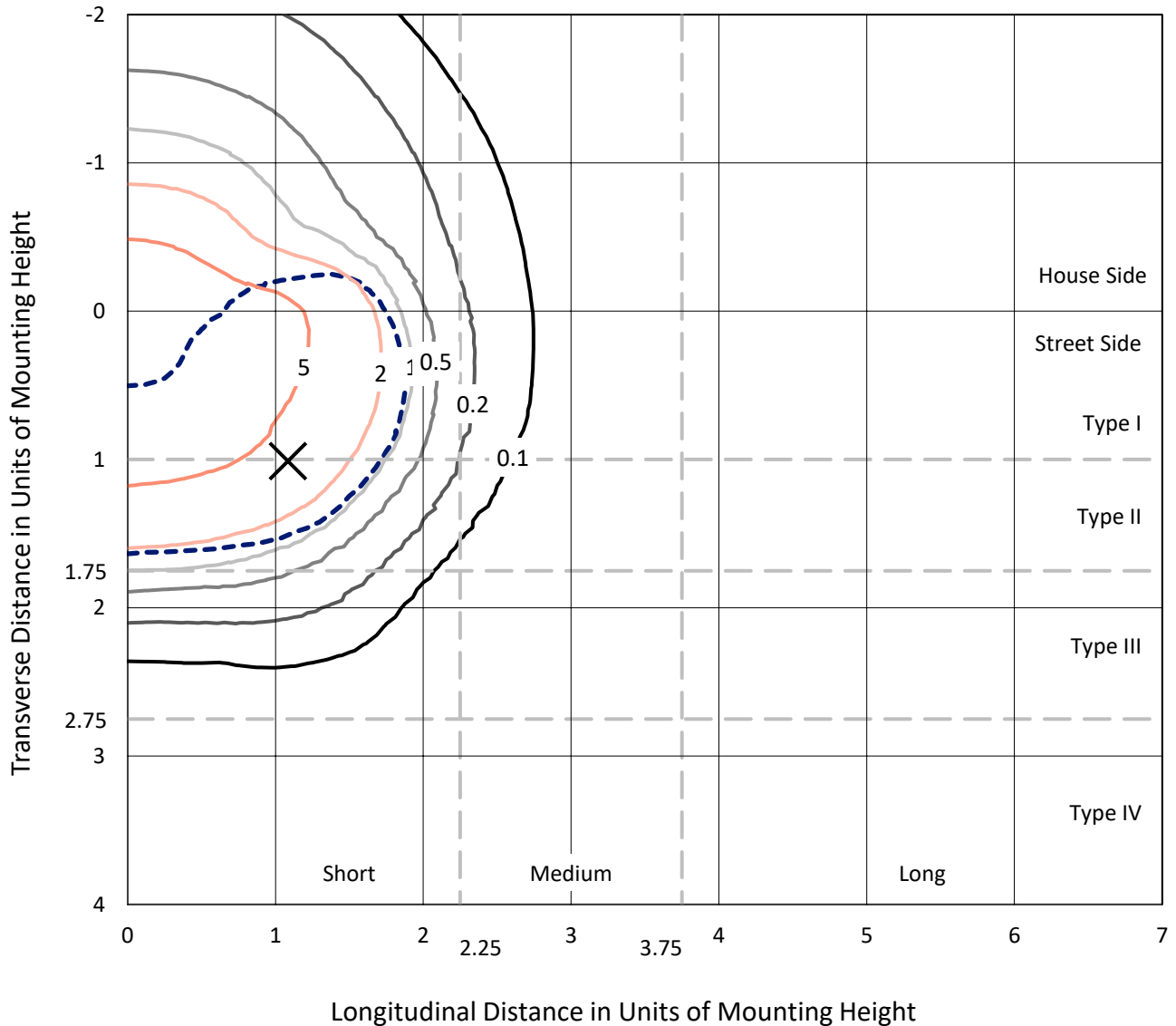
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

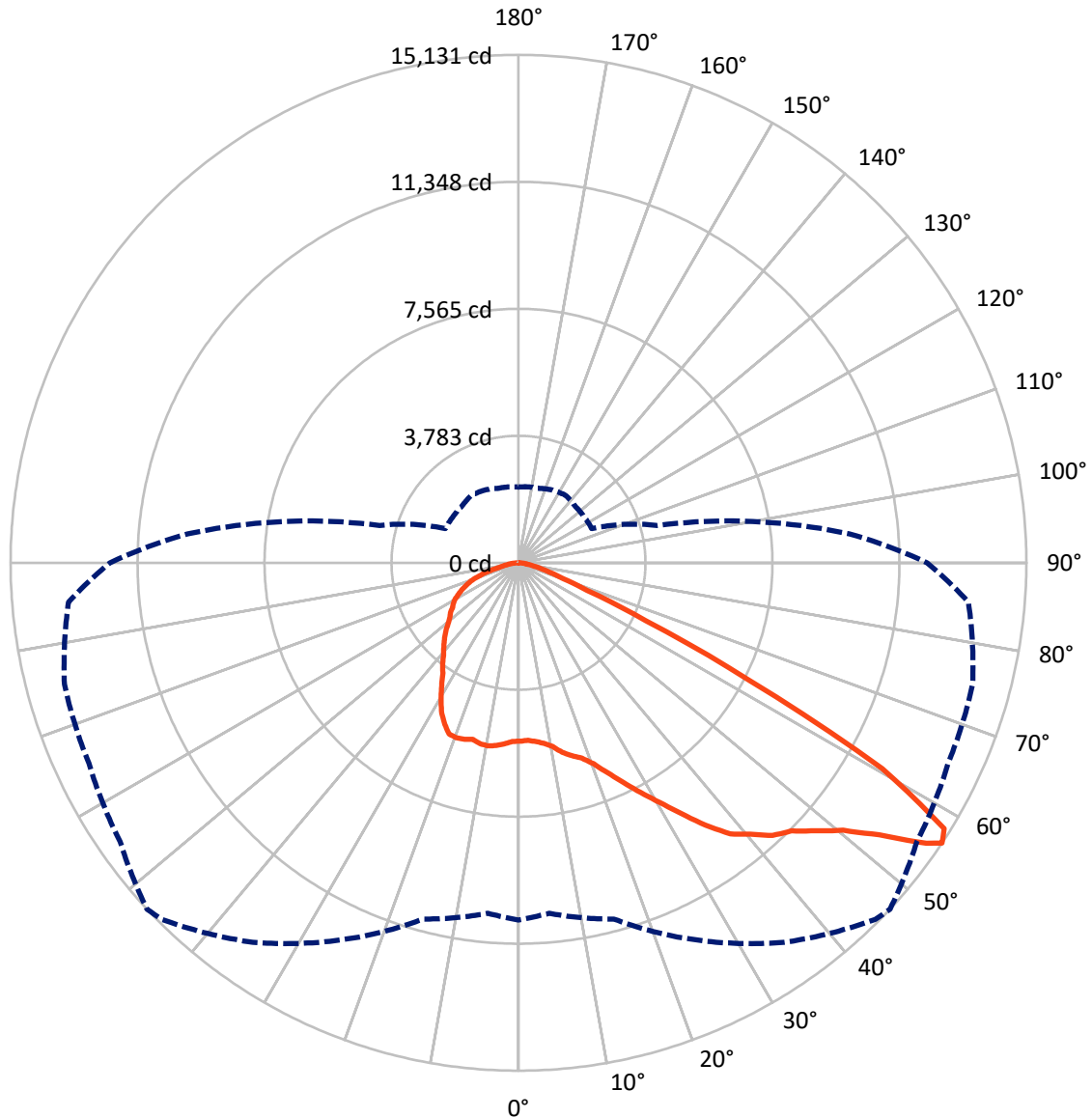
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	8384.3	0.0	8384.3
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	18074.0	0.0	18074.0
	% Fixture	68.3	0.0	68.3
Total	Lumens	26458.4	0.0	26458.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.9	2.0
10°-20°	1633.5	6.2
20°-30°	2887.7	10.9
30°-40°	4337.2	16.4
40°-50°	5952.4	22.5
50°-60°	7091.5	26.8
60°-70°	3034.7	11.5
70°-80°	858.8	3.2
80°-90°	144.5	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°	26458.4	100.0
0°-180°	26458.4	100.0

Coefficient of Utilization

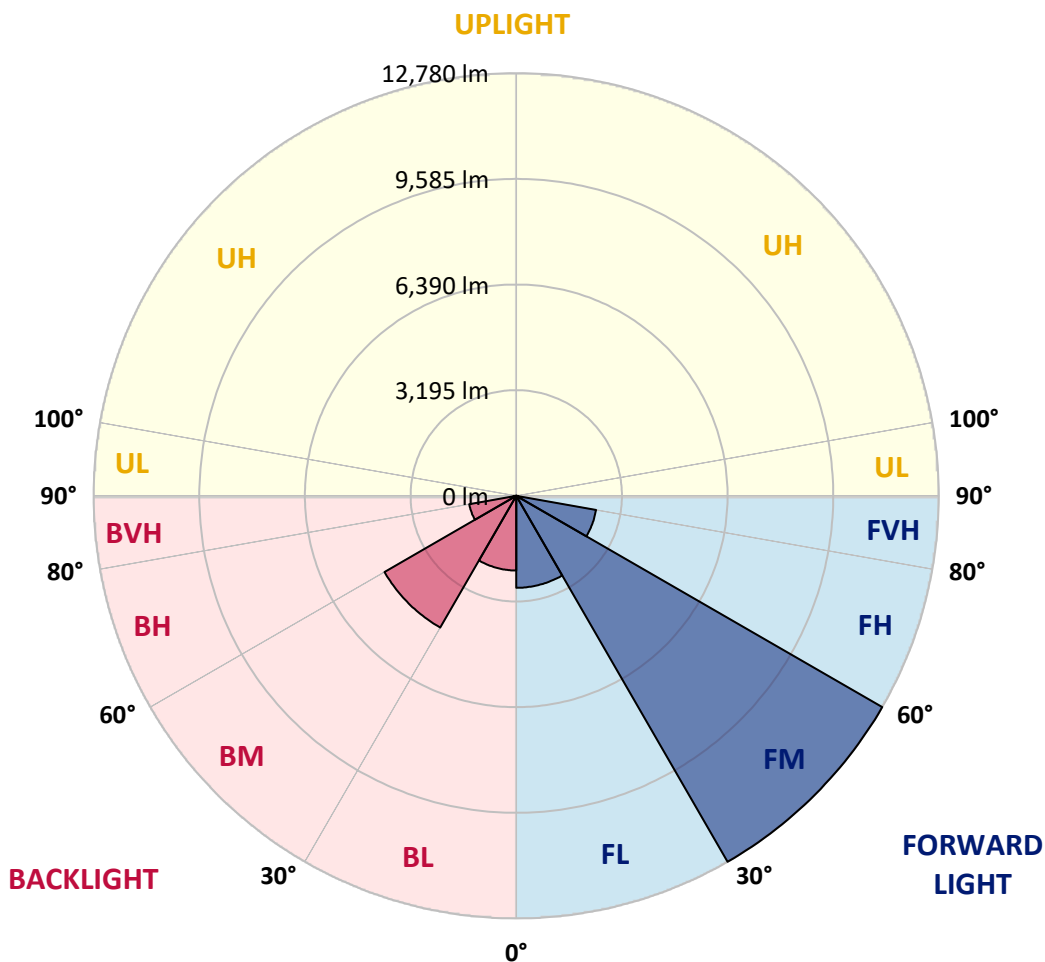


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2781.7	10.5			
FM (30°-60°)	12780.0	48.3			
FH (60°-80°)	2451.0	9.3			G2/5000
FVH (80°-90°)	61.3	0.2			G1/100
BL (0°-30°)	2257.4	8.5	B3/2500		
BM (30°-60°)	4601.2	17.4	B3/5000		
BH (60°-80°)	1442.6	5.5	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°	47°	55°	65°	75°	85°
0°	5314.7	5314.7	5314.7	5314.7	5314.7	5314.7	5314.7	5314.7	5314.7	5314.7	5314.7
2.5°	5294.4	5284.3	5277.6	5331.5	5311.3	5314.7	5294.4	5314.7	5328.2	5297.8	5341.7
5°	5284.3	5314.7	5287.7	5304.6	5348.4	5334.9	5348.4	5388.9	5378.8	5368.6	5355.2
7.5°	5378.8	5382.2	5402.4	5409.2	5422.7	5409.2	5429.4	5466.5	5456.4	5399.0	5405.8
10°	5513.8	5520.5	5523.9	5561.0	5584.7	5588.0	5564.4	5530.6	5527.3	5604.9	5550.9
12.5°	5669.0	5652.1	5692.6	5706.1	5733.1	5763.5	5793.8	5722.9	5766.9	5770.2	5706.1
15°	5895.1	5912.0	5864.7	5864.7	5874.8	5878.2	5962.5	5928.8	5922.1	5884.9	5912.0
17.5°	6232.5	6117.8	6114.4	6067.2	6060.4	6087.4	6117.8	6144.7	6235.9	6161.7	6016.6
20°	6478.9	6505.9	6408.0	6350.6	6360.8	6421.5	6391.1	6512.6	6576.7	6455.2	6313.5
22.5°	6914.1	6823.1	6846.6	6718.5	6728.6	6792.7	6789.3	6914.1	6951.2	6758.9	6553.1
25°	7207.7	7184.1	7204.3	7103.1	7116.6	7167.2	7248.2	7454.1	7393.3	7180.7	6704.9
27.5°	7636.3	7589.0	7572.2	7535.0	7521.5	7656.5	7751.0	7970.3	7926.5	7616.0	6974.9
30°	8074.9	8044.5	8061.5	7909.6	7963.6	8250.4	8277.4	8577.7	8557.5	8010.8	7275.2
32.5°	8378.6	8395.5	8425.9	8341.5	8581.1	8810.6	8901.7	9242.5	9259.4	8689.1	7855.6
35°	8867.9	8810.6	8827.5	8925.3	9036.6	9455.0	9603.6	9829.6	9971.3	9401.1	8412.4
37.5°	9175.0	9235.7	9164.9	9320.1	9610.3	10113.1	10248.1	10480.8	10629.4	10103.0	9171.6
40°	9654.2	9556.3	9606.9	9718.3	10015.2	10669.9	10632.7	10872.3	10919.6	10700.2	9880.2
42.5°	10170.5	10123.2	10052.3	10305.5	10555.2	11030.9	11105.1	10993.8	11233.4	11284.0	10892.5
45°	10787.9	10845.3	10855.4	10862.2	11081.6	11496.6	11395.3	11297.5	11574.2	11942.0	11520.2
47.5°	11361.6	11179.4	11311.0	11493.2	11803.6	11807.0	11925.1	11692.3	11985.9	12313.1	12087.1
50°	11553.9	11466.2	11641.6	11985.9	12465.0	12515.6	12529.2	12198.4	12350.3	12610.1	12282.8
52.5°	11479.7	11449.3	11898.2	12431.3	13133.2	13389.6	13457.1	13048.8	13133.2	13015.0	12714.7
55°	11125.4	11216.5	11668.7	12755.2	13831.7	14624.6	14752.9	14236.6	13700.1	13791.1	13460.5
56°	10639.5	10480.8	10987.1	12387.5	13801.3	15026.2	15130.8	14486.3	14121.9	14003.7	13453.7
57.5°	9026.5	8820.7	9485.4	11145.6	13035.3	14874.3	14951.9	14590.9	14051.0	13811.4	12471.8
60°	5284.3	5385.6	6229.2	7686.9	10055.7	12195.1	12454.9	12718.1	12357.1	11284.0	9282.9
62.5°	2551.0	2487.0	3091.0	4407.0	6127.9	7784.7	7707.1	8446.1	8851.0	8017.6	5861.3
65°	1336.3	1329.5	1687.2	2405.9	3367.7	4089.8	4160.6	4558.8	5115.6	4130.2	2976.2
67.5°	982.0	1009.0	1187.8	1690.6	2166.3	2210.3	2200.1	2399.2	2453.2	2075.3	1828.9
70°	769.4	782.8	914.5	1285.6	1613.0	1444.2	1413.9	1437.5	1596.1	1663.6	1582.6
72.5°	556.8	570.3	681.6	867.3	1009.0	985.3	1005.6	1137.2	1332.9	1403.8	1319.4
75°	371.2	381.3	442.1	529.8	597.3	644.5	681.6	833.5	1015.7	1056.2	1015.7
77.5°	256.4	266.6	307.1	374.6	381.3	411.7	425.2	496.0	607.4	658.0	631.0
80°	145.1	145.1	165.4	192.3	236.2	276.7	283.4	340.8	391.4	425.2	431.9
82.5°	67.5	70.9	87.7	118.1	155.2	192.3	199.1	236.2	273.3	307.1	317.2
85°	33.7	37.1	50.6	70.9	94.5	114.7	111.3	114.7	121.4	114.7	118.1
87.5°	10.1	10.1	13.5	16.8	13.5	16.8	16.8	20.3	23.6	27.0	30.4
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°	5314.7	5314.7	5314.7	5314.7	5314.7	5314.7	5314.7	5314.7	5314.7	5314.7	5314.7
2.5°	5345.1	5355.2	5287.7	5351.8	5328.2	5324.8	5372.0	5365.3	5382.2	5375.5	5334.9
5°	5348.4	5324.8	5395.7	5331.5	5361.9	5426.0	5382.2	5483.4	5432.8	5466.5	5392.3
7.5°	5453.0	5459.8	5446.3	5473.2	5459.8	5490.2	5466.5	5490.2	5449.7	5453.0	5520.5
10°	5544.1	5523.9	5547.5	5513.8	5537.4	5527.3	5473.2	5456.4	5469.9	5453.0	5496.9
12.5°	5712.8	5675.7	5658.9	5618.3	5591.4	5490.2	5405.8	5358.5	5422.7	5432.8	5412.6
15°	5884.9	5888.3	5810.7	5719.6	5550.9	5399.0	5419.3	5436.1	5436.1	5463.1	5412.6
17.5°	5992.9	5992.9	5922.1	5739.9	5567.8	5480.1	5459.8	5405.8	5358.5	5351.8	5348.4
20°	6181.9	6124.5	5962.5	5736.5	5561.0	5520.5	5368.6	5240.5	5142.6	5108.8	5105.5
22.5°	6397.9	6252.7	6026.7	5743.2	5550.9	5493.5	5210.1	5017.7	4842.2	4768.0	4778.2
25°	6596.9	6364.1	6063.8	5712.8	5513.8	5237.1	4919.9	4653.3	4471.1	4410.3	4379.9
27.5°	6735.3	6482.2	6063.8	5739.9	5375.5	4950.3	4626.3	4285.5	4126.9	4086.4	4093.1
30°	6920.9	6630.7	6168.4	5682.5	5098.7	4579.1	4191.0	3968.3	3873.8	3840.1	3863.7
32.5°	7356.2	7018.7	6313.5	5544.1	4771.4	4207.8	3894.1	3769.2	3630.8	3563.4	3539.7
35°	7828.6	7386.6	6455.2	5311.3	4403.6	3870.4	3674.7	3560.0	3394.6	3320.4	3333.9
37.5°	8496.7	7859.0	6465.4	4926.6	4005.4	3681.4	3502.6	3323.8	3188.8	3074.1	3040.3
40°	9397.7	8503.5	6441.7	4521.7	3684.9	3458.7	3327.1	3104.4	2952.6	2871.7	2888.5
42.5°	10190.7	9259.4	6343.9	4062.8	3394.6	3306.9	3158.5	2939.1	2790.6	2706.3	2699.5
45°	10858.8	9816.2	6158.3	3671.3	3151.7	3138.2	2966.1	2797.3	2679.3	2601.7	2635.4
47.5°	11476.4	10264.9	5878.2	3279.9	2929.0	2956.0	2790.6	2686.0	2611.8	2540.9	2537.5
50°	11699.0	10258.2	5631.9	2956.0	2750.1	2736.7	2729.9	2618.5	2540.9	2480.2	2507.2
52.5°	12070.3	10372.9	5365.3	2733.3	2588.1	2591.6	2615.1	2534.2	2446.4	2409.3	2443.0
55°	12603.4	10389.8	4778.2	2473.4	2453.2	2476.8	2476.8	2422.8	2348.6	2318.2	2301.3
56°	12168.1	9887.0	4285.5	2405.9	2385.7	2385.7	2449.9	2389.1	2297.9	2274.4	2254.1
57.5°	11223.3	8662.1	3587.0	2325.0	2294.6	2341.8	2375.5	2311.5	2227.1	2193.3	2213.6
60°	7740.9	5861.3	2696.2	2149.5	2149.5	2227.1	2254.1	2159.6	2122.5	2119.1	2092.1
62.5°	4518.3	3414.9	2109.0	1990.9	1997.7	2061.8	2082.0	2028.0	1980.8	2038.1	2065.2
65°	2395.8	2038.1	1808.7	1822.2	1825.6	1876.1	1963.9	1960.6	1957.2	1974.0	1977.4
67.5°	1734.4	1693.9	1643.4	1629.8	1636.5	1673.7	1761.4	1828.9	1825.6	1785.1	1754.7
70°	1545.5	1488.1	1457.7	1461.1	1434.1	1478.0	1548.9	1592.7	1515.1	1467.9	1447.6
72.5°	1285.6	1268.8	1248.5	1251.9	1197.9	1187.8	1106.8	1106.8	1086.6	1073.0	1096.7
75°	982.0	975.2	985.3	968.4	911.1	850.3	803.1	759.3	691.8	664.8	651.2
77.5°	620.9	641.1	664.8	627.7	604.0	560.2	512.9	469.0	415.1	384.7	384.7
80°	421.8	438.6	455.5	448.8	421.8	381.3	344.2	296.9	259.8	236.2	232.9
82.5°	320.6	334.0	357.7	330.7	303.7	270.0	239.6	205.9	172.1	145.1	145.1
85°	114.7	131.6	145.1	158.6	168.7	172.1	148.5	121.4	97.9	77.6	74.2
87.5°	30.4	33.7	37.1	33.7	33.7	33.7	37.1	33.7	30.4	23.6	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

(END OF REPORT)