

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: P533016

Luminaire Tested: **GALN-SA8B-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533016
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-SA8B-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA 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: 30947 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 325
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



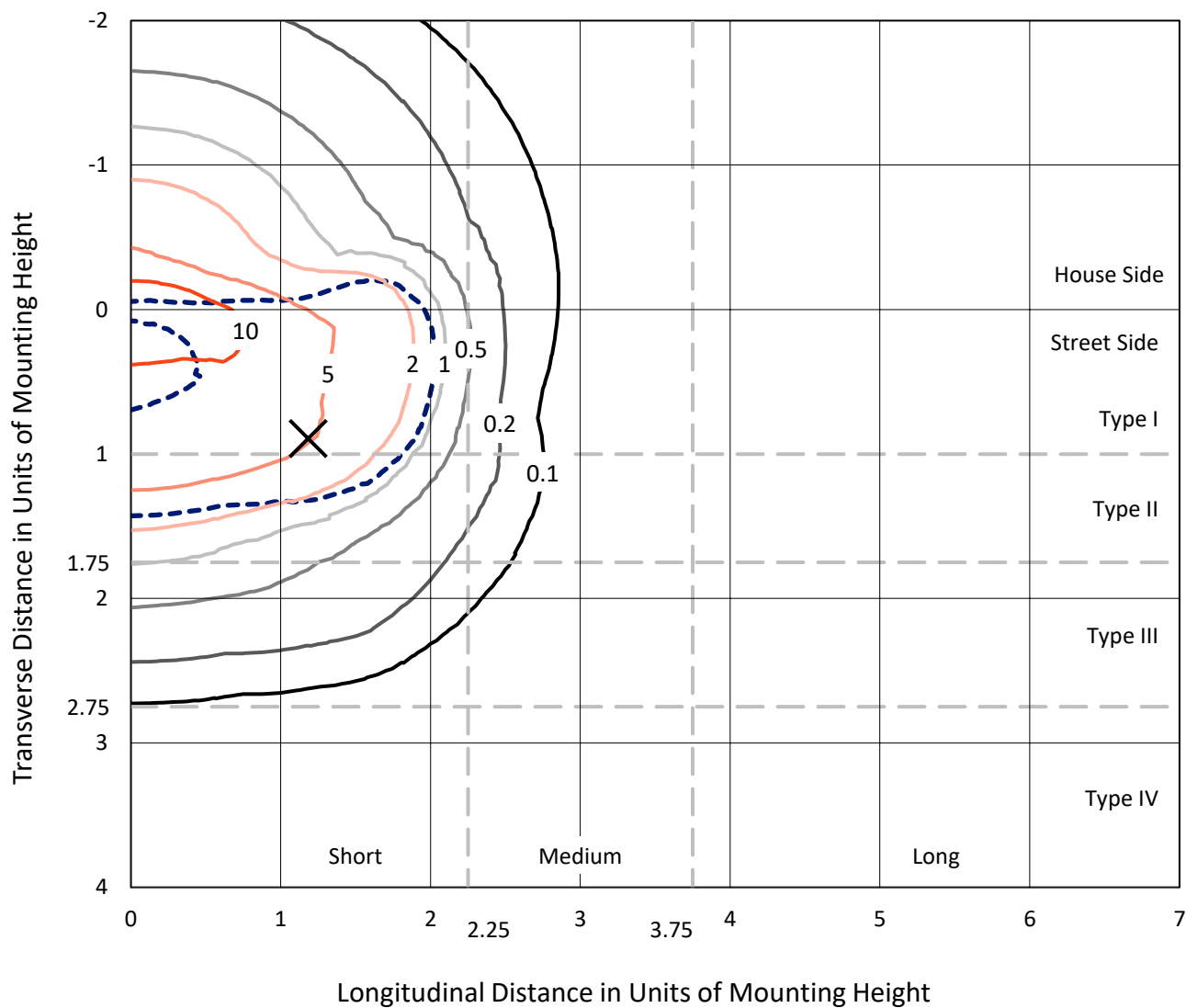
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

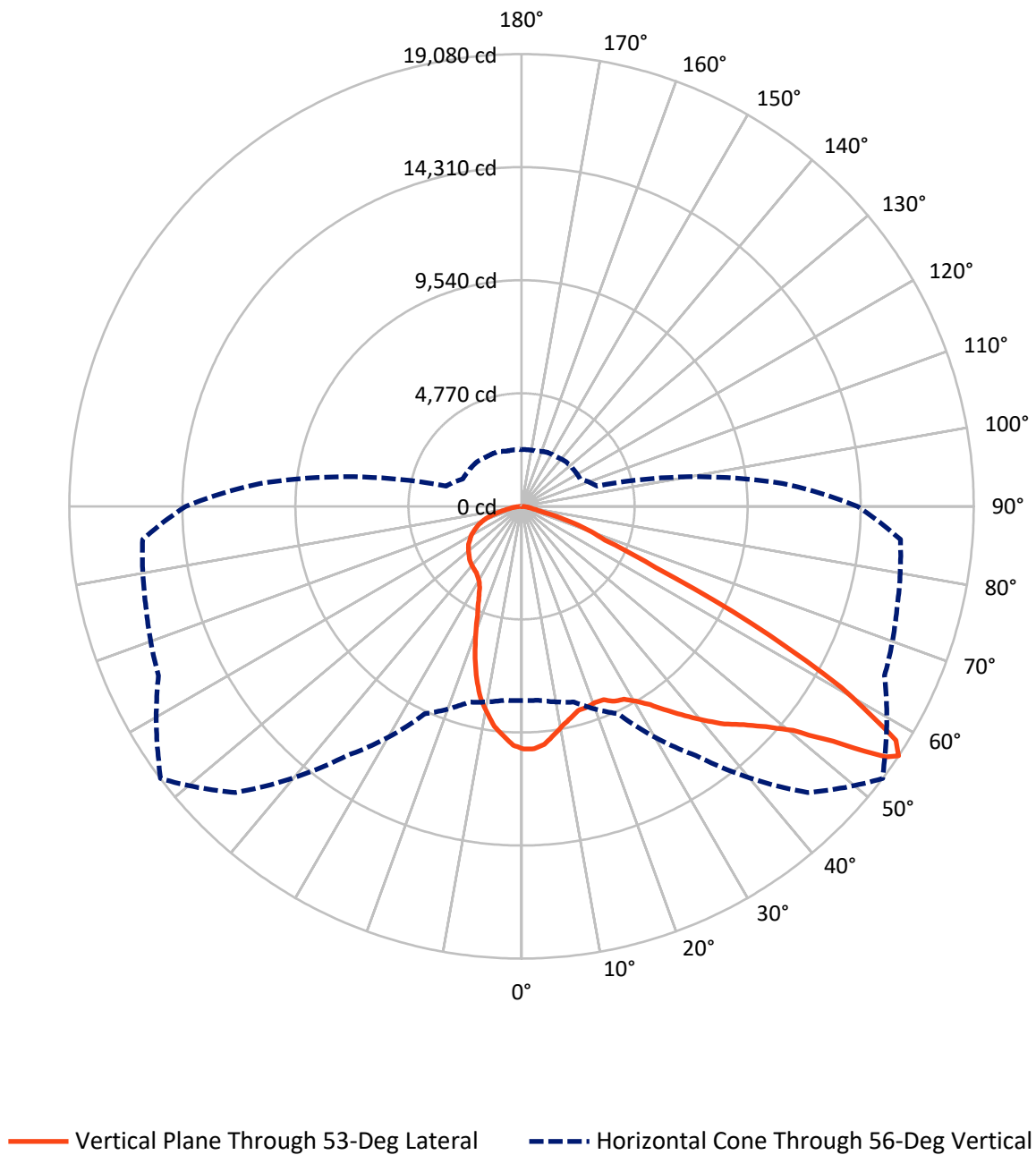


Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9031.0	0.0	9031.0
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	21916.0	0.0	21916.0
	% Fixture	70.8	0.0	70.8
Total	Lumens	30947.0	0.0	30947.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	906.4	2.9
10°-20°	2263.8	7.3
20°-30°	3338.2	10.8
30°-40°	4769.6	15.4
40°-50°	6564.7	21.2
50°-60°	7757.7	25.1
60°-70°	4134.3	13.4
70°-80°	1048.9	3.4
80°-90°	163.5	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°	30947.0	100.0
0°-180°	30947.0	100.0

Coefficient of Utilization



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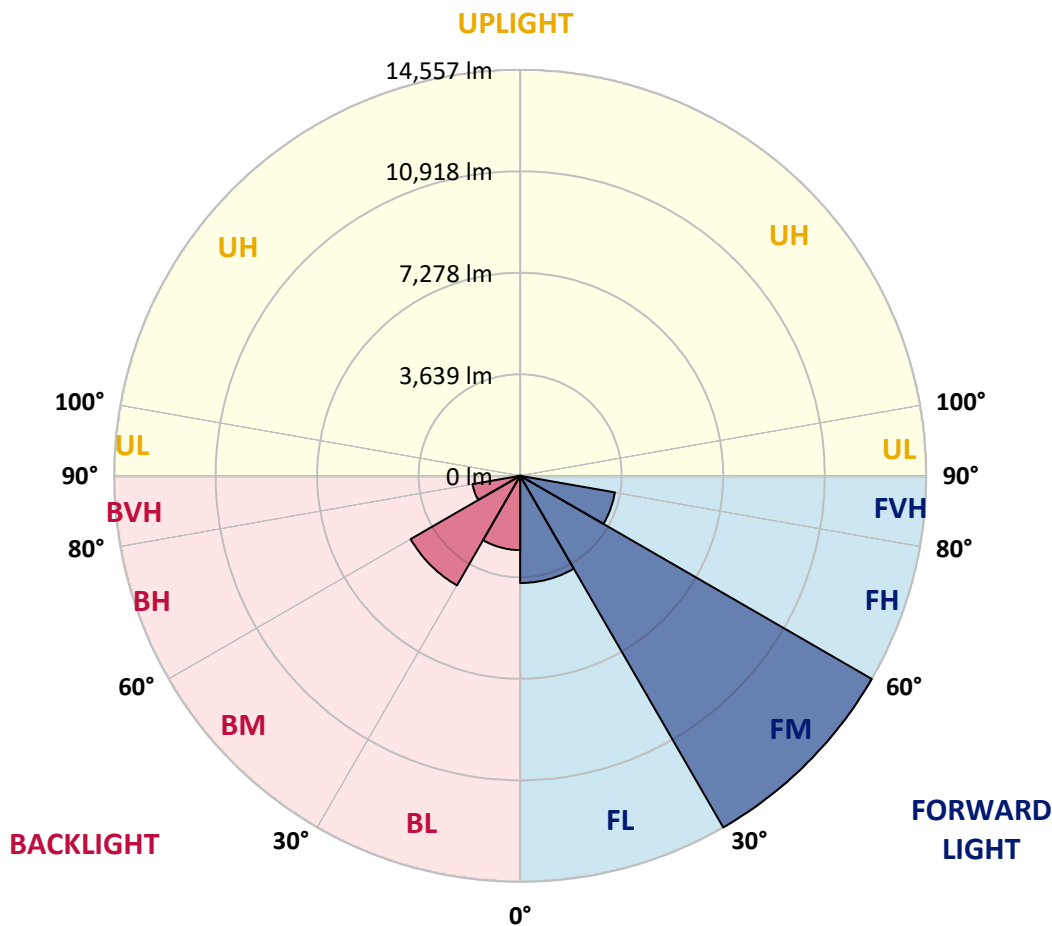
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3844.7	12.4			
FM	(30°-60°)	14556.9	47.0			
FH	(60°-80°)	3448.7	11.1			G2/5000
FVH	(80°-90°)	65.7	0.2			G1/100
BL	(0°-30°)	2663.6	8.6	B4/5000		
BM	(30°-60°)	4535.1	14.7	B3/5000		
BH	(60°-80°)	1734.5	5.6	B3/2500		G3/2500
BVH	(80°-90°)	97.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10238.5	10238.5	10238.5	10238.5	10238.5	10238.5	10238.5	10238.5	10238.5	10238.5	10238.5
2.5°	10111.4	10024.1	10075.7	10055.9	10218.6	10266.3	10242.5	10262.3	10353.6	10309.9	10218.6
5°	9448.5	9571.5	9595.4	9654.9	9750.2	9936.8	10083.7	10123.4	10167.0	10369.5	10349.6
7.5°	8845.0	8928.4	8884.7	9059.4	9265.9	9567.6	9746.2	9778.0	10178.9	10290.1	10373.5
10°	8463.9	8380.6	8579.1	8626.7	8860.9	9206.3	9420.7	9551.7	9916.9	10357.6	10409.2
12.5°	8110.6	8082.8	8201.9	8336.9	8598.9	8956.2	9174.5	9226.2	9789.9	10254.4	10496.5
15°	7848.6	7816.8	7935.9	8035.2	8340.9	8658.4	8936.3	9083.2	9650.9	10194.8	10421.1
17.5°	7642.1	7638.2	7705.7	7884.3	8197.9	8463.9	8912.5	8920.5	9579.5	10286.1	10484.6
20°	7630.2	7626.3	7638.2	7836.7	8122.5	8448.0	8837.1	8908.6	9579.5	10222.6	10488.6
22.5°	7729.5	7666.0	7737.4	7864.5	8070.9	8475.8	8864.9	9023.7	9809.7	10536.2	10667.2
25°	7888.3	7904.2	7943.9	7987.5	8106.6	8539.4	9111.0	9242.0	10079.7	10806.2	10913.4
27.5°	8178.1	8170.1	8186.0	8209.8	8313.1	8598.9	9210.3	9547.7	10643.4	11286.6	11179.4
30°	8602.9	8575.1	8638.6	8722.0	8626.7	8789.5	9539.8	9793.9	11167.5	11770.9	11477.1
32.5°	8988.0	9091.2	9210.3	9246.0	9130.9	9162.6	9976.5	10234.5	11604.1	12366.4	11842.3
35°	9468.3	9551.7	9710.5	9821.6	9801.8	9706.5	10572.0	10913.4	12235.4	12803.1	12227.4
37.5°	9936.8	10036.0	10298.0	10627.5	10444.9	10401.3	11207.2	11489.0	12429.9	13037.3	12509.3
40°	10691.1	10687.1	11139.7	11310.4	11473.1	11397.7	11866.2	11961.4	12533.1	12985.7	12517.2
42.5°	11576.4	11520.8	11981.3	12247.3	12457.7	12465.6	12553.0	12521.2	12580.8	12723.7	12433.9
45°	12418.0	12537.1	13001.6	13478.0	13688.4	13712.2	13132.6	13073.0	12664.1	12648.2	12275.1
47.5°	13446.2	13474.0	13855.1	14482.4	14970.7	14803.9	13882.9	13751.9	13029.4	13152.4	12541.1
50°	13505.8	13712.2	14053.6	14792.0	16292.7	16249.0	14855.5	14609.4	13616.9	13867.0	13283.4
52.5°	12259.2	12211.5	12616.5	13823.3	16193.4	17686.1	16467.3	15879.8	14879.4	14688.8	14486.3
55°	9341.3	9452.4	9809.7	11028.5	14061.5	17706.0	18662.7	18182.3	16229.1	15903.6	15669.4
56°	8194.0	8209.8	8547.3	9658.9	12830.9	17074.7	19079.6	18690.5	16900.1	16403.8	16046.5
57.5°	6792.6	6701.3	6875.9	7483.3	10830.0	15740.8	18623.0	19004.1	17686.1	16943.7	16447.5
60°	5347.5	5327.7	5256.2	5367.4	6844.2	11858.2	15502.6	16360.1	17606.7	16435.6	15752.7
62.5°	4366.9	4267.7	4410.6	4569.4	4756.0	7356.3	10893.5	11397.7	13978.2	13120.7	11834.4
65°	3386.4	3338.7	3517.4	4033.5	4144.6	4672.6	6205.0	6594.1	8253.5	8106.6	7138.0
67.5°	2330.4	2338.3	2493.1	3279.2	3842.9	3795.3	3799.2	4001.7	4307.4	3199.8	2786.9
70°	1476.8	1472.8	1556.2	2112.0	3092.6	3124.3	2965.5	2906.0	2755.1	1667.4	1766.6
72.5°	948.8	921.0	964.7	1167.2	1599.9	1850.0	1905.6	1941.3	1595.9	1310.1	1421.2
75°	535.9	508.2	492.3	543.9	631.2	730.5	801.9	825.7	925.0	992.5	1052.0
77.5°	162.8	146.9	178.6	238.2	313.6	420.8	512.1	528.0	623.3	702.7	762.2
80°	71.5	79.4	111.2	158.8	222.3	297.7	361.3	385.1	448.6	508.2	524.0
82.5°	43.7	47.6	75.4	107.2	154.8	210.4	258.0	266.0	329.5	377.1	389.1
85°	15.9	19.8	39.7	63.5	99.2	135.0	135.0	146.9	135.0	135.0	146.9
87.5°	0.0	0.0	4.0	7.9	7.9	11.9	15.9	15.9	19.8	23.8	27.8
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°	10238.5	10238.5	10238.5	10238.5	10238.5	10238.5	10238.5	10238.5	10238.5	10238.5	10238.5
2.5°	10266.3	10246.4	10214.7	10099.5	10087.6	10051.9	9853.4	9821.6	9853.4	9758.1	9766.1
5°	10246.4	10306.0	10067.8	9952.7	9738.3	9583.4	9404.8	9313.5	9150.7	9047.5	9162.6
7.5°	10333.8	10309.9	10012.2	9762.1	9440.5	9047.5	8733.9	8555.2	8269.4	8190.0	8249.5
10°	10302.0	10175.0	9825.6	9496.1	8888.7	8543.3	8035.2	7542.9	7272.9	7134.0	7114.1
12.5°	10258.3	10222.6	9639.0	9071.3	8432.2	7705.7	6991.1	6526.6	6085.9	5895.4	5923.2
15°	10309.9	10008.2	9289.7	8571.1	7721.5	6768.8	5998.6	5399.1	5093.4	4970.4	4970.4
17.5°	10286.1	9905.0	9122.9	8011.3	6935.5	5808.0	4962.4	4601.2	4474.1	4474.1	4509.9
20°	10298.0	9972.5	8785.5	7451.6	6006.5	4891.0	4275.6	4144.6	4200.2	4220.1	4239.9
22.5°	10365.5	9750.2	8456.0	6836.2	5145.0	4184.3	3882.6	3886.6	3985.8	4093.0	4073.2
25°	10448.9	9662.8	8055.0	6224.9	4486.0	3838.9	3743.7	3731.7	3807.2	3862.8	3870.7
27.5°	10377.4	9512.0	7646.1	5462.6	3946.1	3608.7	3588.8	3596.8	3620.6	3731.7	3696.0
30°	10611.7	9555.7	7134.0	4823.5	3648.4	3533.3	3509.4	3497.5	3533.3	3565.0	3537.2
32.5°	10901.5	9400.8	6752.9	4208.1	3501.5	3477.7	3430.0	3414.2	3434.0	3402.2	3418.1
35°	11028.5	9373.0	6256.6	3767.5	3386.4	3366.5	3338.7	3334.8	3338.7	3310.9	3287.1
37.5°	11100.0	9504.0	5688.9	3565.0	3314.9	3334.8	3271.2	3263.3	3191.8	3207.7	3219.6
40°	11223.0	9301.6	5228.4	3370.5	3271.2	3231.5	3176.0	3164.0	3116.4	3088.6	3116.4
42.5°	11044.4	9242.0	4775.8	3287.1	3207.7	3164.0	3124.3	3056.9	3041.0	3017.2	3001.3
45°	10901.5	8900.6	4370.9	3183.9	3132.3	3108.5	3033.0	2961.6	2902.0	2925.8	2890.1
47.5°	11008.7	8781.5	3969.9	3096.6	3029.1	3001.3	2925.8	2870.3	2810.7	2782.9	2775.0
50°	11437.4	9003.8	3632.5	3033.0	2941.7	2925.8	2826.6	2763.1	2707.5	2687.7	2695.6
52.5°	12461.7	9611.2	3402.2	2902.0	2858.4	2786.9	2731.3	2651.9	2616.2	2552.7	2592.4
55°	13759.8	10599.8	3342.7	2779.0	2755.1	2691.6	2616.2	2556.6	2489.2	2437.5	2425.6
56°	14176.7	11072.2	3295.1	2731.3	2691.6	2655.9	2556.6	2520.9	2413.7	2401.8	2393.9
57.5°	14514.1	11489.0	3303.0	2640.0	2600.3	2568.6	2509.0	2421.7	2350.2	2306.5	2326.4
60°	13751.9	10754.6	3152.1	2501.1	2493.1	2433.6	2350.2	2310.5	2223.2	2171.6	2159.6
62.5°	10222.6	7300.7	2556.6	2322.4	2318.4	2254.9	2159.6	2116.0	2100.1	2028.6	2028.6
65°	5887.4	4577.3	2211.3	2175.5	2143.8	2080.3	1985.0	1949.2	1909.5	1885.7	1865.9
67.5°	2513.0	2374.0	2008.8	2004.8	1969.1	1889.7	1794.4	1738.8	1687.2	1639.6	1663.4
70°	1822.2	1850.0	1814.3	1794.4	1750.7	1651.5	1568.1	1500.6	1421.2	1389.5	1413.3
72.5°	1445.1	1504.6	1556.2	1560.2	1508.6	1393.5	1302.1	1210.8	1123.5	1079.8	1099.7
75°	1095.7	1135.4	1187.0	1198.9	1123.5	1044.1	956.8	861.5	794.0	742.4	750.3
77.5°	790.0	782.1	829.7	821.8	786.0	730.5	651.1	563.7	488.3	440.7	444.6
80°	539.9	551.8	579.6	575.6	532.0	496.2	436.7	365.2	309.7	270.0	262.0
82.5°	377.1	397.0	420.8	401.0	365.2	329.5	285.8	234.2	190.6	158.8	150.9
85°	135.0	154.8	178.6	190.6	202.5	194.5	162.8	131.0	95.3	79.4	75.4
87.5°	27.8	31.8	35.7	35.7	35.7	31.8	27.8	27.8	23.8	11.9	11.9
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)