

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: P532770

Luminaire Tested: **GALN-SA8A-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532770
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-827-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23698 lumens
Efficiency: N/A
Efficacy: 97.1 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

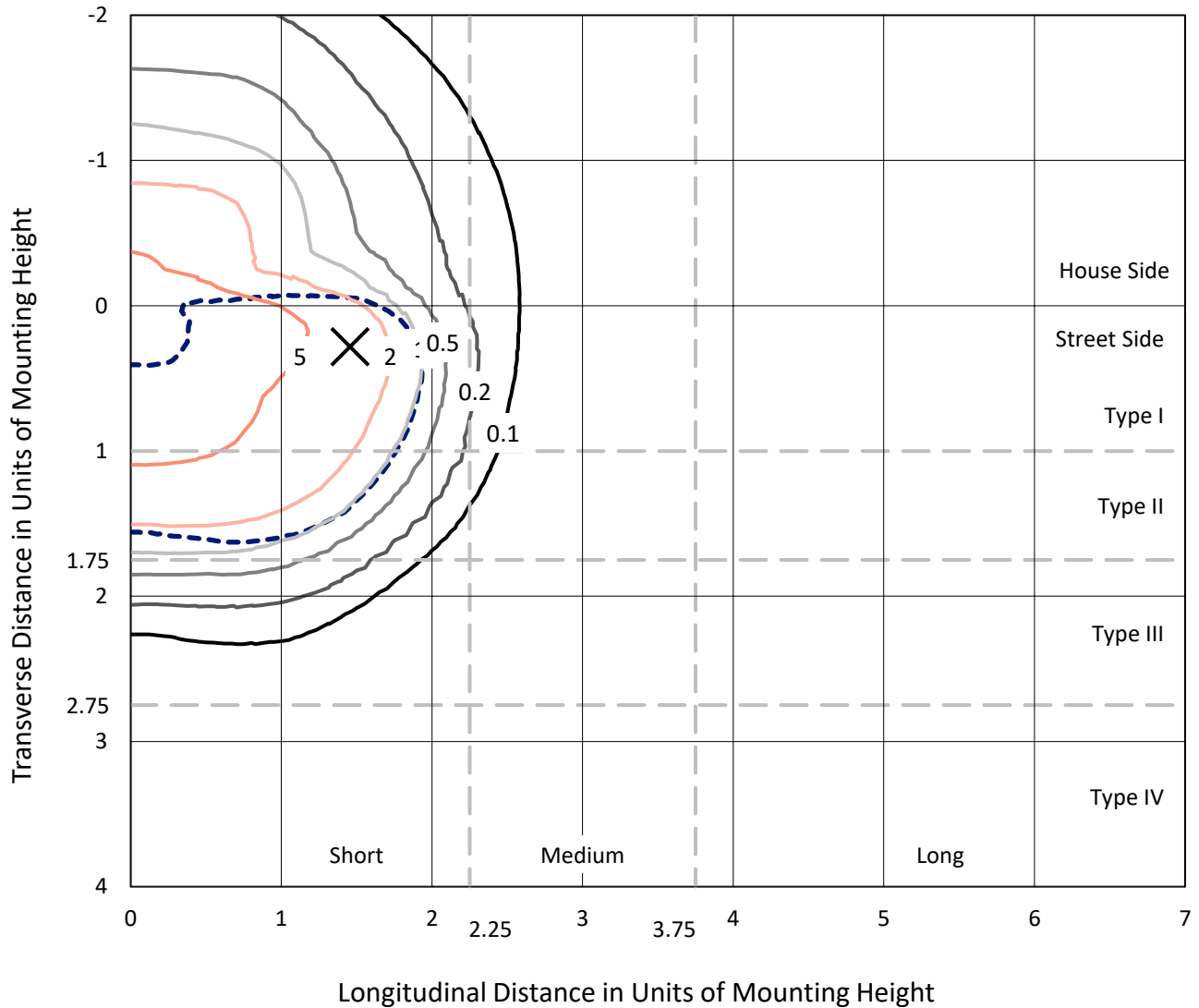
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

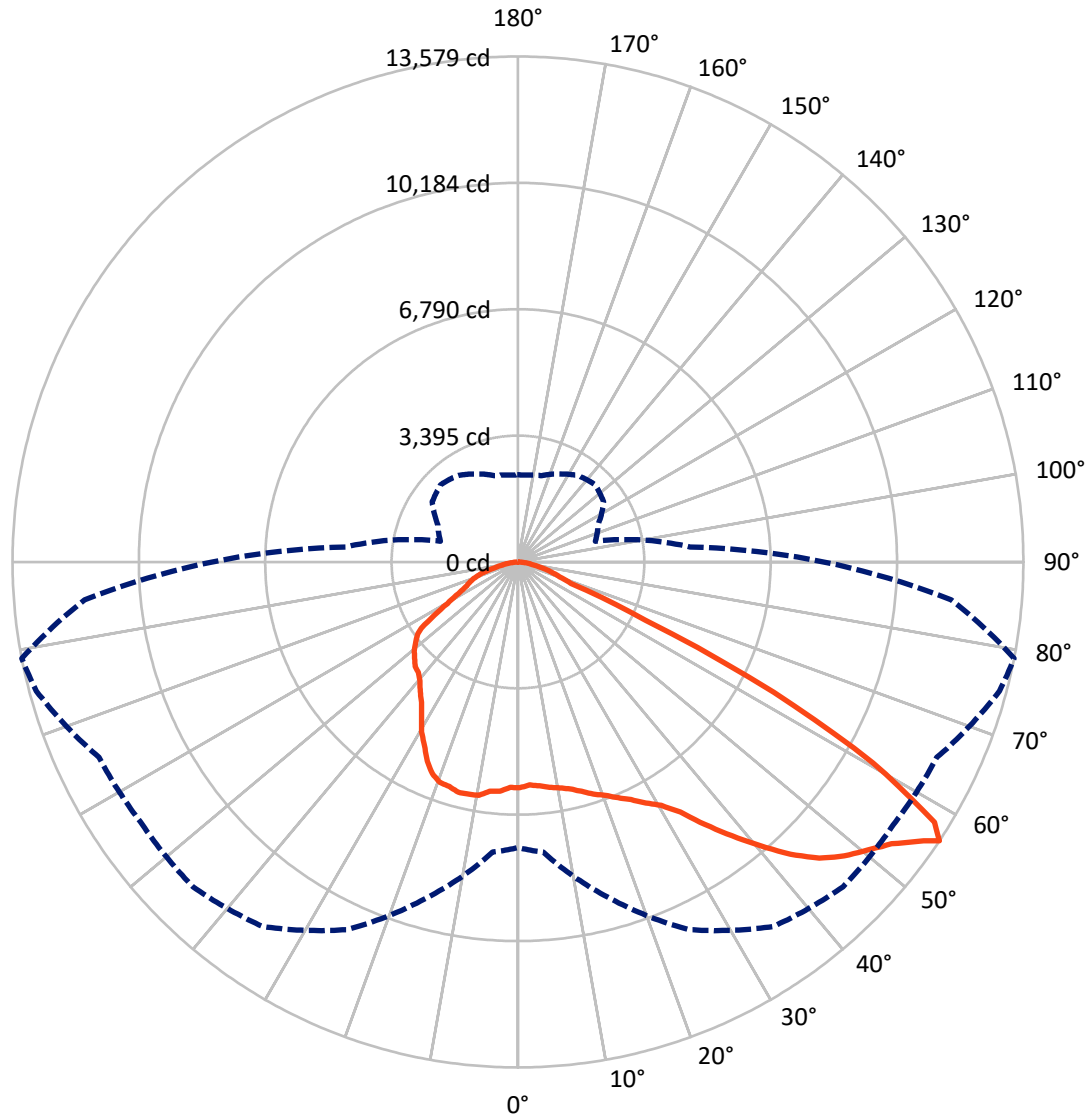
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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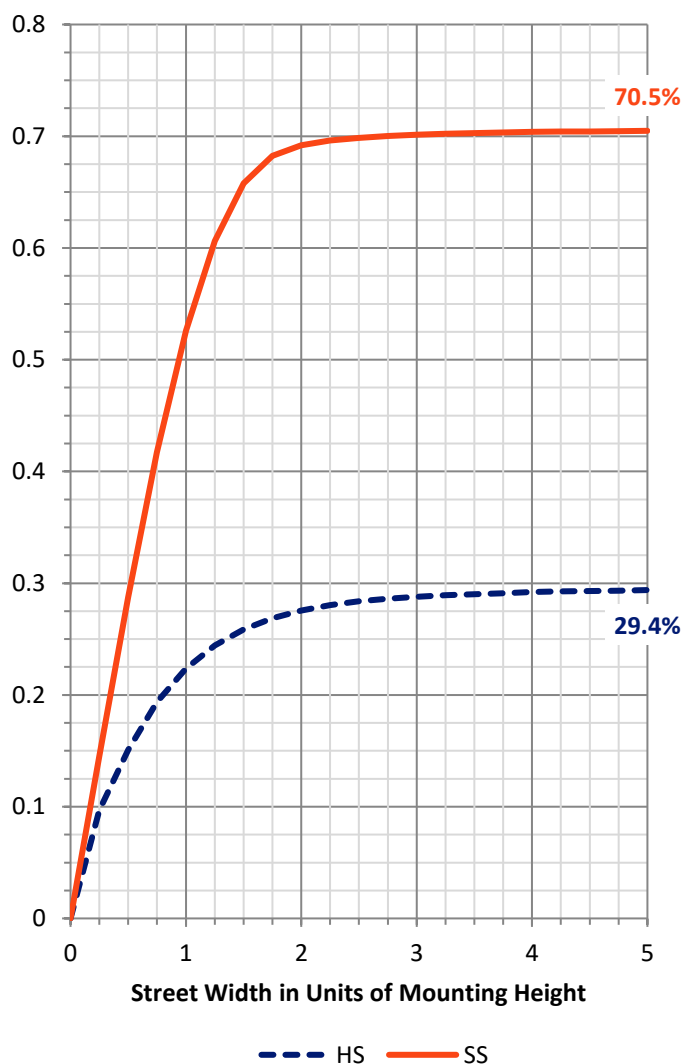
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6998.5	0.0	6998.5
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	16699.5	0.0	16699.5
	% Fixture	70.5	0.0	70.5
Total	Lumens	23698.0	0.0	23698.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.3	2.3
10°-20°	1508.7	6.4
20°-30°	2581.1	10.9
30°-40°	3955.8	16.7
40°-50°	5346.3	22.6
50°-60°	6140.4	25.9
60°-70°	2799.0	11.8
70°-80°	690.1	2.9
80°-90°	125.4	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°	23698.0	100.0
0°-180°	23698.0	100.0

Coefficient of Utilization

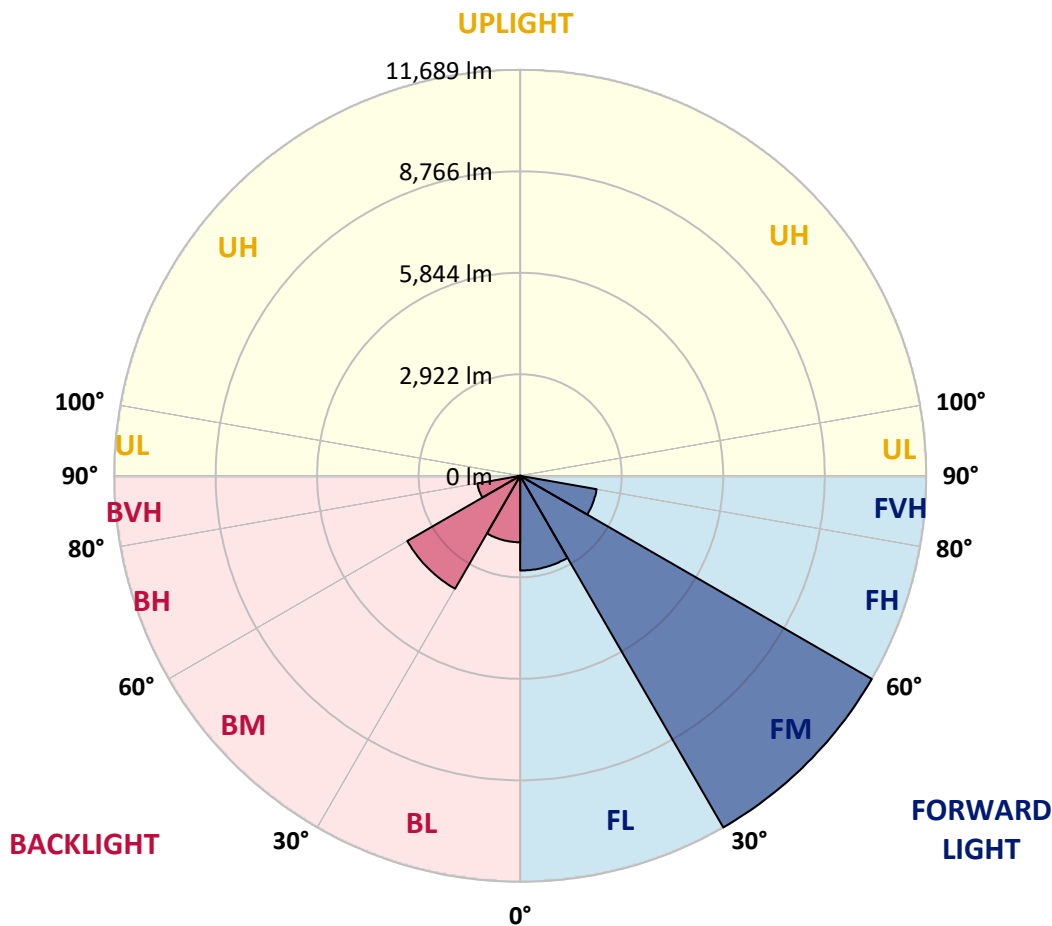


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2726.7	11.5			
FM (30°-60°)	11688.6	49.3			
FH (60°-80°)	2234.2	9.4			G2/5000
FVH (80°-90°)	50.1	0.2			G1/100
BL (0°-30°)	1914.4	8.1	B3/2500		
BM (30°-60°)	3753.9	15.8	B3/5000		
BH (60°-80°)	1254.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	75.3	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°	55°	65°	75°	79°	85°
0°	6063.4	6063.4	6063.4	6063.4	6063.4	6063.4	6063.4	6063.4	6063.4	6063.4	6063.4
2.5°	5768.2	5753.4	5788.8	5815.4	5847.9	5889.2	5909.9	5921.7	6025.0	5998.4	6078.1
5°	5644.2	5605.8	5632.4	5653.1	5709.1	5759.3	5815.4	5904.0	5998.4	6039.8	6137.2
7.5°	5535.0	5514.3	5508.4	5523.2	5599.9	5664.9	5762.3	5892.2	6045.7	6113.6	6169.7
10°	5354.9	5325.4	5369.7	5467.1	5487.7	5623.5	5735.7	5921.7	6054.5	6172.6	6337.9
12.5°	5275.2	5245.7	5254.5	5310.6	5455.3	5585.2	5718.0	5927.6	6208.0	6255.3	6476.7
15°	5402.1	5372.6	5381.5	5366.7	5505.5	5573.4	5782.9	6045.7	6314.3	6394.0	6630.2
17.5°	5691.4	5694.4	5656.0	5623.5	5591.1	5735.7	5880.4	6116.5	6355.6	6556.4	6733.5
20°	6243.5	6146.0	6069.3	5886.3	5836.1	5898.1	6081.1	6308.4	6523.9	6689.2	6889.9
22.5°	6668.5	6677.4	6568.2	6267.1	6157.8	6184.4	6340.9	6526.8	6763.0	6881.1	7111.3
25°	7285.5	7223.5	7105.4	6866.3	6621.3	6642.0	6757.1	6925.4	6990.3	7073.0	7323.9
27.5°	7849.3	7867.0	7633.8	7409.5	7105.4	7046.4	7253.0	7282.6	7173.3	7329.8	7415.4
30°	8422.0	8407.3	8253.8	7991.0	7692.9	7704.7	7796.2	7651.5	7501.0	7586.6	7645.6
32.5°	9015.4	8847.1	8841.2	8605.0	8377.7	8268.5	8156.3	8227.2	7994.0	8011.7	7955.6
35°	9490.6	9514.3	9378.5	9210.2	9098.0	8906.1	8599.1	8726.1	8681.8	8661.1	8419.1
37.5°	9836.0	9744.5	9812.4	9756.3	9650.0	9410.9	9092.1	9213.1	9233.8	9334.2	9053.7
40°	10119.4	10081.0	10261.1	10290.6	10216.8	9700.2	9127.5	9487.7	9797.6	10016.1	9682.5
42.5°	10255.2	10337.9	10526.8	10754.1	10588.8	10036.8	9310.6	9697.3	10388.0	10733.4	10278.8
45°	10438.2	10332.0	10612.4	11028.6	11031.6	10320.1	9487.7	9980.7	10848.5	11350.4	10686.2
47.5°	10252.2	10305.4	10594.7	11123.1	11258.9	10618.3	9965.9	10382.1	11356.3	11802.0	11064.0
50°	9836.0	9942.3	10470.7	11019.8	11430.1	10934.2	10515.0	10816.1	11825.7	12165.1	11126.0
52.5°	9402.1	9461.1	10287.7	11099.5	11506.8	11341.5	11250.0	11415.3	12398.3	12575.5	11202.8
55°	8221.3	8501.7	9682.5	11064.0	11881.7	12076.6	12005.7	12247.8	13047.8	13224.9	11622.0
56°	7675.2	7822.8	9319.4	10898.7	11955.5	12345.2	12309.8	12419.0	13393.2	13579.1	11686.9
57.5°	6665.6	6677.4	7946.7	10166.6	11678.1	12424.9	12389.5	12475.1	13325.3	13198.3	11117.2
60°	4171.2	4354.2	5408.0	7819.8	9930.5	11527.5	11728.2	11040.4	11235.3	10966.6	8649.3
62.5°	2160.9	2134.3	2833.9	4572.6	6591.8	8253.8	8439.7	8407.3	8106.2	7713.5	5650.1
65°	1077.5	1083.4	1481.9	2264.2	3377.1	4321.7	4841.3	4897.3	4097.4	3769.7	2680.4
67.5°	782.3	811.8	1065.7	1384.5	1591.1	1780.0	2181.5	2140.2	1620.6	1540.9	1428.8
70°	608.1	634.7	864.9	1056.8	959.4	959.4	1045.0	1080.4	1154.2	1186.7	1225.1
72.5°	442.8	463.5	661.2	729.1	628.8	676.0	782.3	864.9	941.7	953.5	997.8
75°	304.1	321.8	433.9	401.5	377.9	466.4	572.7	649.4	705.5	735.0	761.6
77.5°	197.8	203.7	248.0	209.6	242.1	301.1	372.0	436.9	493.0	516.6	522.5
80°	88.6	97.4	106.3	132.8	168.3	215.5	265.7	318.8	354.2	363.1	380.8
82.5°	50.2	50.2	64.9	94.5	124.0	156.5	191.9	230.3	271.6	280.4	277.5
85°	26.6	26.6	38.4	56.1	76.8	91.5	88.6	91.5	97.4	112.2	109.2
87.5°	8.9	8.9	11.8	11.8	14.8	17.7	14.8	20.7	26.6	26.6	26.6
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°	6063.4	6063.4	6063.4	6063.4	6063.4	6063.4	6063.4	6063.4	6063.4	6063.4	6063.4
2.5°	6054.5	6081.1	6045.7	6122.4	6122.4	6107.7	6033.9	6057.5	6075.2	6075.2	6089.9
5°	6169.7	6160.8	6184.4	6092.9	6036.8	6016.1	5895.1	5836.1	5785.9	5782.9	5738.7
7.5°	6234.6	6211.0	6202.1	6134.2	5886.3	5735.7	5475.9	5325.4	5292.9	5177.8	5222.1
10°	6337.9	6382.2	6337.9	5968.9	5623.5	5278.2	5024.3	4791.1	4699.6	4625.8	4581.5
12.5°	6550.5	6529.8	6273.0	5774.1	5290.0	4879.6	4501.8	4256.8	4165.3	4100.3	4094.4
15°	6730.5	6627.2	6234.6	5467.1	4770.4	4333.5	4023.6	3849.4	3808.1	3814.0	3840.5
17.5°	6792.5	6721.7	6033.9	5148.3	4383.7	3870.1	3725.4	3698.8	3737.2	3781.5	3793.3
20°	6889.9	6777.8	5951.2	4714.3	3905.5	3580.8	3571.9	3666.4	3737.2	3802.2	3811.0
22.5°	7093.6	6810.2	5682.6	4304.0	3577.8	3495.2	3580.8	3660.5	3769.7	3822.8	3775.6
25°	7152.7	6739.4	5304.7	3811.0	3371.2	3442.0	3533.5	3642.8	3719.5	3749.0	3769.7
27.5°	7202.8	6630.2	4794.0	3483.3	3306.2	3439.1	3533.5	3625.0	3666.4	3692.9	3716.6
30°	7344.5	6597.7	4351.2	3264.9	3264.9	3380.0	3501.1	3524.7	3580.8	3613.2	3654.6
32.5°	7415.4	6373.3	3896.6	3126.2	3223.6	3409.5	3418.4	3462.7	3465.6	3492.2	3447.9
35°	7601.4	6213.9	3474.5	3025.8	3241.3	3380.0	3424.3	3397.7	3253.1	3182.2	3197.0
37.5°	7737.2	6134.2	3170.4	3014.0	3244.2	3412.5	3436.1	3235.4	3084.8	2966.7	2996.3
40°	8103.2	5936.4	2940.2	2993.3	3270.8	3447.9	3383.0	3164.5	2892.9	2771.9	2751.3
42.5°	8383.6	5794.7	2795.5	2969.7	3291.5	3498.1	3356.4	3022.8	2745.3	2633.2	2662.7
45°	8708.4	5762.3	2718.8	2975.6	3326.9	3524.7	3323.9	2913.6	2618.4	2574.1	2565.3
47.5°	8823.5	5529.1	2636.1	2925.4	3318.0	3515.8	3214.7	2831.0	2571.2	2577.1	2600.7
50°	8631.6	5290.0	2574.1	2822.1	3259.0	3436.1	3043.5	2721.7	2544.6	2618.4	2659.7
52.5°	8386.6	5044.9	2447.2	2683.4	3138.0	3312.1	2963.8	2715.8	2518.0	2494.4	2503.3
55°	8460.4	4844.2	2270.1	2494.4	2943.1	3081.9	2875.2	2659.7	2453.1	2364.5	2394.1
56°	8221.3	4637.6	2154.9	2376.3	2810.3	2934.3	2831.0	2609.6	2400.0	2340.9	2340.9
57.5°	7545.3	3943.9	2004.4	2187.4	2529.9	2677.5	2745.3	2580.0	2340.9	2237.6	2240.6
60°	5564.5	2804.4	1797.8	1927.6	2095.9	2214.0	2529.9	2497.4	2193.3	2122.5	2095.9
62.5°	3430.2	2048.7	1650.2	1700.3	1786.0	1883.4	2208.1	2261.2	2036.9	1960.1	1942.4
65°	1921.7	1567.5	1538.0	1558.6	1600.0	1650.2	1833.2	1951.3	1797.8	1679.7	1673.8
67.5°	1405.1	1402.2	1425.8	1443.5	1461.2	1461.2	1505.5	1552.7	1532.1	1437.6	1428.8
70°	1248.7	1257.5	1275.3	1278.2	1284.1	1263.5	1228.0	1213.3	1236.9	1177.8	1166.0
72.5°	1030.2	1059.8	1080.4	1083.4	1050.9	1024.3	977.1	926.9	909.2	897.4	894.5
75°	791.1	811.8	820.7	817.7	805.9	767.5	711.4	661.2	628.8	593.3	611.1
77.5°	534.3	563.8	578.6	578.6	560.9	501.8	475.3	436.9	404.4	366.0	372.0
80°	374.9	395.6	419.2	416.2	386.7	357.2	318.8	283.4	256.8	227.3	224.4
82.5°	280.4	292.2	304.1	298.2	277.5	248.0	221.4	188.9	159.4	138.7	138.7
85°	100.4	109.2	132.8	138.7	150.6	150.6	126.9	106.3	85.6	70.8	70.8
87.5°	29.5	29.5	32.5	32.5	29.5	32.5	26.6	29.5	32.5	20.7	20.7
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)