

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: P533718

Luminaire Tested: **GALN-SA9A-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533718
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-SA9A-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 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: 27923 lumens
Efficiency: N/A
Efficacy: 101.9 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): 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

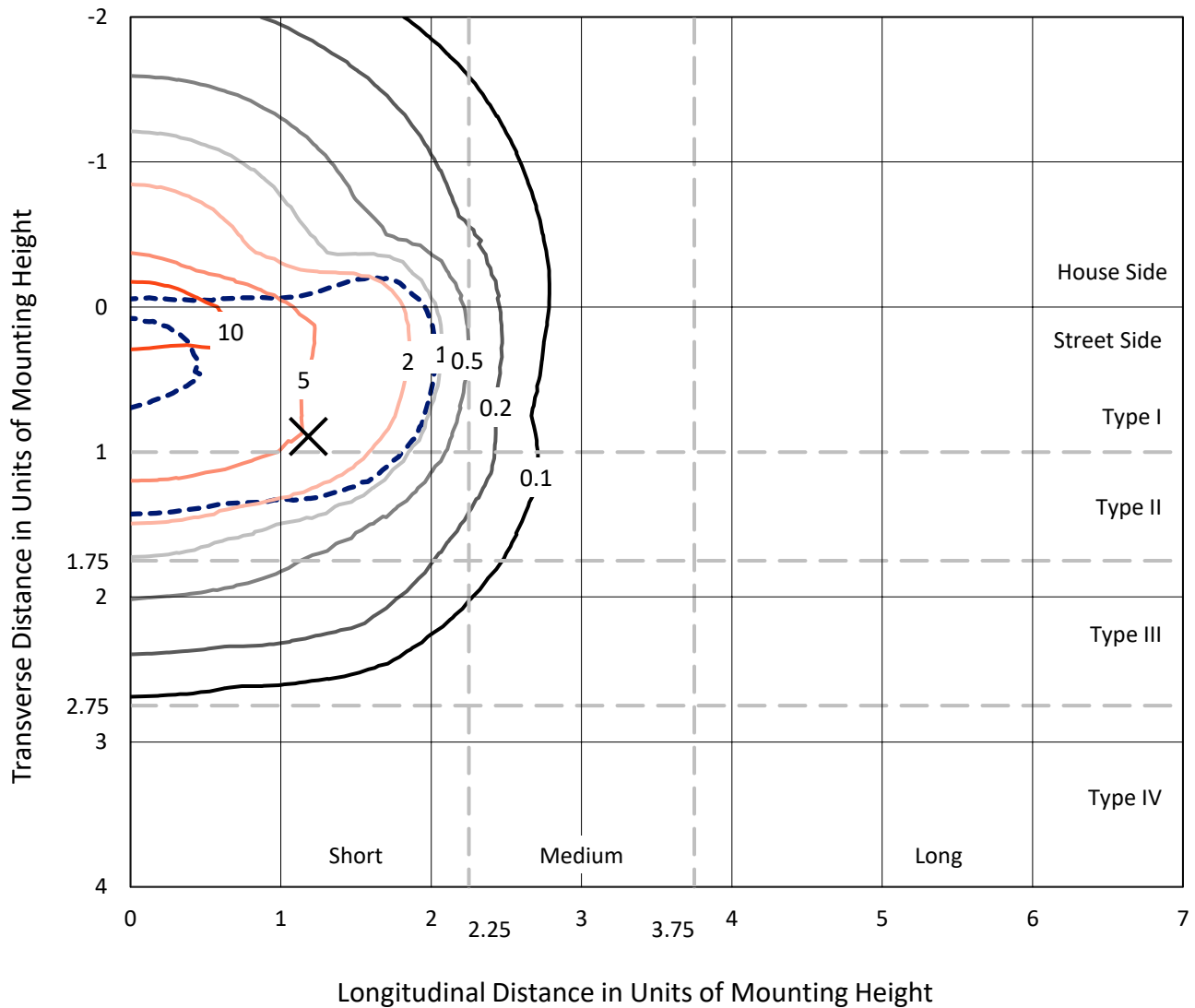


REPORT NUMBER: P533718

CATALOG NUMBER: GALN-SA9A-830-U-SL2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

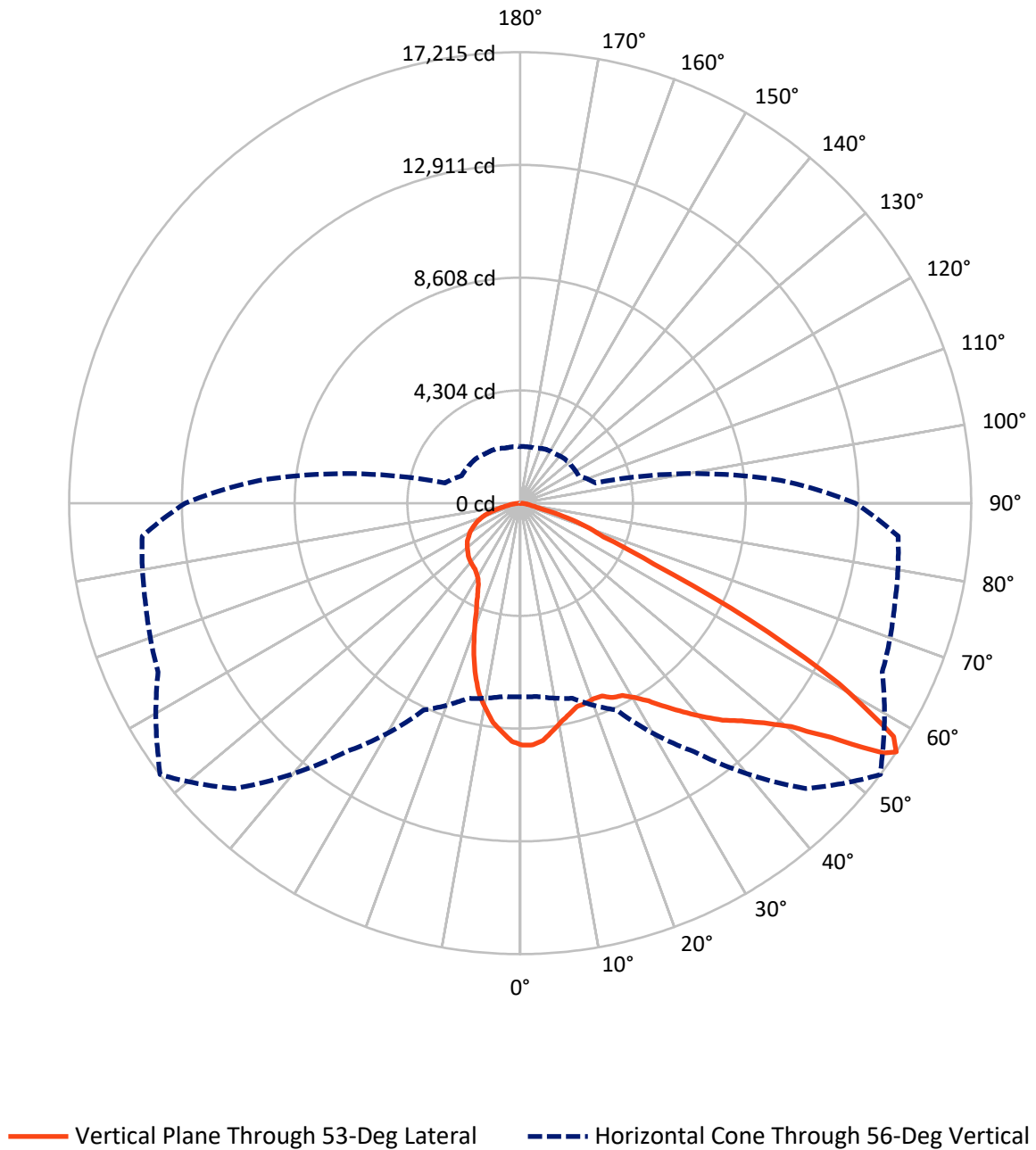


Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
Type II - Short - N/A

REPORT NUMBER: P533718

CATALOG NUMBER: GALN-SA9A-830-U-SL2-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P533718

CATALOG NUMBER: GALN-SA9A-830-U-SL2-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8148.5	0.0	8148.5
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	19774.5	0.0	19774.5
	% Fixture	70.8	0.0	70.8
Total	Lumens	27923.0	0.0	27923.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	817.8	2.9
10°-20°	2042.6	7.3
20°-30°	3012.0	10.8
30°-40°	4303.5	15.4
40°-50°	5923.2	21.2
50°-60°	6999.6	25.1
60°-70°	3730.3	13.4
70°-80°	946.4	3.4
80°-90°	147.6	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°	27923.0	100.0
0°-180°	27923.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533718

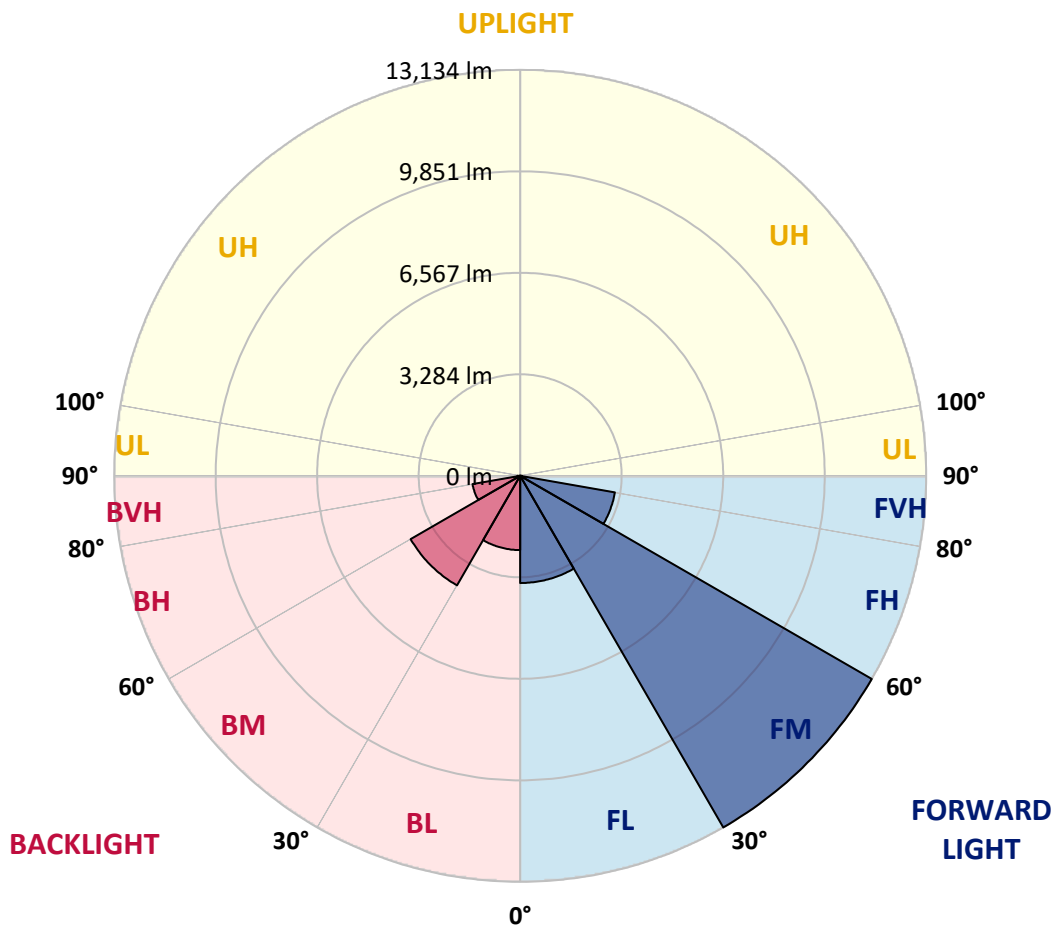
CATALOG NUMBER: GALN-SA9A-830-U-SL2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3469.0	12.4			
FM	(30°-60°)	13134.4	47.0			
FH	(60°-80°)	3111.7	11.1			G2/5000
FVH	(80°-90°)	59.3	0.2			G1/100
BL	(0°-30°)	2403.3	8.6	B3/2500		
BM	(30°-60°)	4091.9	14.7	B3/5000		
BH	(60°-80°)	1565.0	5.6	B3/2500		G3/2500
BVH	(80°-90°)	88.2	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



REPORT NUMBER: P533718

CATALOG NUMBER: GALN-SA9A-830-U-SL2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	9238.0	9238.0	9238.0	9238.0	9238.0	9238.0	9238.0	9238.0	9238.0	9238.0	9238.0
2.5°	9123.4	9044.6	9091.2	9073.3	9220.1	9263.1	9241.6	9259.5	9341.9	9302.5	9220.1
5°	8525.2	8636.2	8657.7	8711.5	8797.4	8965.8	9098.3	9134.2	9173.6	9356.2	9338.3
7.5°	7980.7	8056.0	8016.6	8174.2	8360.4	8632.7	8793.9	8822.5	9184.3	9284.6	9359.8
10°	7636.9	7561.6	7740.7	7783.7	7995.1	8306.7	8500.1	8618.3	8947.9	9345.5	9392.1
12.5°	7318.1	7293.0	7400.5	7522.2	7758.7	8081.0	8278.0	8324.6	8833.3	9252.4	9470.9
15°	7081.7	7053.0	7160.5	7250.0	7525.8	7812.4	8063.1	8195.7	8707.9	9198.6	9402.8
17.5°	6895.4	6891.8	6952.7	7113.9	7396.9	7636.9	8041.6	8048.8	8643.4	9281.0	9460.1
20°	6884.6	6881.1	6891.8	7070.9	7328.8	7622.5	7973.6	8038.1	8643.4	9223.7	9463.7
22.5°	6974.2	6916.9	6981.4	7096.0	7282.2	7647.6	7998.7	8141.9	8851.2	9506.7	9624.9
25°	7117.5	7131.8	7167.6	7207.0	7314.5	7704.9	8220.7	8338.9	9094.7	9750.3	9847.0
27.5°	7379.0	7371.8	7386.1	7407.6	7500.7	7758.7	8310.3	8614.8	9603.4	10183.7	10087.0
30°	7762.2	7737.2	7794.5	7869.7	7783.7	7930.6	8607.6	8836.8	10076.2	10620.7	10355.6
32.5°	8109.7	8202.8	8310.3	8342.5	8238.6	8267.3	9001.6	9234.4	10470.2	11158.0	10685.2
35°	8543.1	8618.3	8761.6	8861.9	8844.0	8758.0	9538.9	9847.0	11039.8	11552.0	11032.6
37.5°	8965.8	9055.3	9291.8	9589.1	9424.3	9384.9	10112.0	10366.4	11215.3	11763.4	11286.9
40°	9646.4	9642.8	10051.1	10205.2	10352.0	10284.0	10706.7	10792.6	11308.4	11716.8	11294.1
42.5°	10445.2	10395.0	10810.5	11050.5	11240.4	11247.5	11326.3	11297.7	11351.4	11480.4	11218.9
45°	11204.6	11312.0	11731.1	12161.0	12350.8	12372.3	11849.3	11795.6	11426.6	11412.3	11075.6
47.5°	12132.3	12157.4	12501.2	13067.2	13507.8	13357.4	12526.3	12408.1	11756.2	11867.2	11315.6
50°	12186.0	12372.3	12680.3	13346.6	14700.6	14661.2	13403.9	13181.8	12286.3	12512.0	11985.4
52.5°	11061.3	11018.3	11383.7	12472.6	14611.1	15957.9	14858.2	14328.1	13425.4	13253.5	13070.8
55°	8428.5	8528.8	8851.2	9950.9	12687.5	15975.8	16839.1	16405.7	14643.3	14349.6	14138.2
56°	7393.3	7407.6	7712.1	8715.1	11577.1	15406.3	17215.2	16864.1	15248.7	14800.9	14478.5
57.5°	6128.8	6046.4	6204.1	6752.1	9771.7	14202.7	16803.3	17147.1	15957.9	15288.1	14840.3
60°	4825.0	4807.1	4742.6	4842.9	6175.4	10699.5	13987.8	14761.5	15886.3	14829.6	14213.5
62.5°	3940.2	3850.7	3979.6	4122.9	4291.3	6637.5	9829.1	10284.0	12612.3	11838.6	10678.0
65°	3055.5	3012.5	3173.7	3639.3	3739.6	4216.0	5598.7	5949.7	7447.0	7314.5	6440.5
67.5°	2102.6	2109.8	2249.5	2958.7	3467.4	3424.4	3428.0	3610.7	3886.5	2887.1	2514.6
70°	1332.5	1328.9	1404.2	1905.6	2790.4	2819.0	2675.8	2622.0	2485.9	1504.4	1594.0
72.5°	856.1	831.0	870.4	1053.1	1443.6	1669.2	1719.4	1751.6	1440.0	1182.1	1282.4
75°	483.6	458.5	444.2	490.7	569.5	659.1	723.6	745.1	834.6	895.5	949.2
77.5°	146.9	132.5	161.2	214.9	283.0	379.7	462.1	476.4	562.4	634.0	687.7
80°	64.5	71.6	100.3	143.3	200.6	268.7	326.0	347.5	404.8	458.5	472.8
82.5°	39.4	43.0	68.1	96.7	139.7	189.8	232.8	240.0	297.3	340.3	351.0
85°	14.3	17.9	35.8	57.3	89.6	121.8	121.8	132.5	121.8	121.8	132.5
87.5°	0.0	0.0	3.6	7.2	7.2	10.7	14.3	14.3	17.9	21.5	25.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P533718

CATALOG NUMBER: GALN-SA9A-830-U-SL2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9238.0	9238.0	9238.0	9238.0	9238.0	9238.0	9238.0	9238.0	9238.0	9238.0	9238.0
2.5°	9263.1	9245.2	9216.5	9112.7	9101.9	9069.7	8890.6	8861.9	8890.6	8804.6	8811.8
5°	9245.2	9298.9	9084.0	8980.1	8786.7	8647.0	8485.8	8403.4	8256.6	8163.4	8267.3
7.5°	9324.0	9302.5	9033.9	8808.2	8518.0	8163.4	7880.4	7719.3	7461.3	7389.7	7443.4
10°	9295.3	9180.7	8865.5	8568.2	8020.1	7708.5	7250.0	6805.8	6562.3	6436.9	6419.0
12.5°	9255.9	9223.7	8697.1	8184.9	7608.2	6952.7	6307.9	5888.8	5491.2	5319.3	5344.4
15°	9302.5	9030.3	8381.9	7733.6	6967.0	6107.3	5412.4	4871.5	4595.7	4484.7	4484.7
17.5°	9281.0	8937.1	8231.5	7228.5	6257.8	5240.5	4477.5	4151.6	4036.9	4036.9	4069.2
20°	9291.8	8998.0	7927.0	6723.5	5419.6	4413.0	3857.8	3739.6	3789.8	3807.7	3825.6
22.5°	9352.7	8797.4	7629.7	6168.2	4642.3	3775.4	3503.2	3506.8	3596.3	3693.1	3675.2
25°	9427.9	8718.6	7267.9	5616.6	4047.7	3463.8	3377.8	3367.1	3435.2	3485.3	3492.5
27.5°	9363.4	8582.5	6899.0	4928.9	3560.5	3256.1	3238.1	3245.3	3266.8	3367.1	3334.9
30°	9574.7	8621.9	6436.9	4352.2	3291.9	3188.0	3166.5	3155.8	3188.0	3216.7	3191.6
32.5°	9836.2	8482.2	6093.0	3796.9	3159.3	3137.8	3094.9	3080.5	3098.4	3069.8	3084.1
35°	9950.9	8457.1	5645.3	3399.3	3055.5	3037.6	3012.5	3008.9	3012.5	2987.4	2965.9
37.5°	10015.3	8575.4	5133.0	3216.7	2991.0	3008.9	2951.6	2944.4	2879.9	2894.3	2905.0
40°	10126.4	8392.7	4717.5	3041.1	2951.6	2915.8	2865.6	2854.9	2811.9	2786.8	2811.9
42.5°	9965.2	8338.9	4309.2	2965.9	2894.3	2854.9	2819.0	2758.2	2743.8	2722.3	2708.0
45°	9836.2	8030.9	3943.8	2872.8	2826.2	2804.7	2736.7	2672.2	2618.5	2639.9	2607.7
47.5°	9932.9	7923.4	3582.0	2794.0	2733.1	2708.0	2639.9	2589.8	2536.1	2511.0	2503.8
50°	10319.8	8124.0	3277.5	2736.7	2654.3	2639.9	2550.4	2493.1	2442.9	2425.0	2432.2
52.5°	11244.0	8672.1	3069.8	2618.5	2579.1	2514.6	2464.4	2392.8	2360.6	2303.2	2339.1
55°	12415.3	9564.0	3016.1	2507.4	2485.9	2428.6	2360.6	2306.8	2245.9	2199.4	2188.6
56°	12791.4	9990.3	2973.1	2464.4	2428.6	2396.4	2306.8	2274.6	2177.9	2167.1	2160.0
57.5°	13095.9	10366.4	2980.2	2382.0	2346.2	2317.6	2263.8	2185.0	2120.6	2081.2	2099.1
60°	12408.1	9703.7	2844.1	2256.7	2249.5	2195.8	2120.6	2084.7	2005.9	1959.4	1948.6
62.5°	9223.7	6587.3	2306.8	2095.5	2091.9	2034.6	1948.6	1909.2	1894.9	1830.4	1830.4
65°	5312.1	4130.1	1995.2	1962.9	1934.3	1877.0	1791.0	1758.8	1723.0	1701.5	1683.5
67.5°	2267.4	2142.0	1812.5	1808.9	1776.7	1705.0	1619.1	1568.9	1522.4	1479.4	1500.9
70°	1644.1	1669.2	1637.0	1619.1	1579.7	1490.1	1414.9	1354.0	1282.4	1253.7	1275.2
72.5°	1303.9	1357.6	1404.2	1407.7	1361.2	1257.3	1174.9	1092.5	1013.7	974.3	992.2
75°	988.6	1024.5	1071.0	1081.8	1013.7	942.1	863.3	777.3	716.4	669.8	677.0
77.5°	712.8	705.7	748.6	741.5	709.2	659.1	587.5	508.6	440.6	397.6	401.2
80°	487.2	497.9	523.0	519.4	480.0	447.8	394.0	329.5	279.4	243.6	236.4
82.5°	340.3	358.2	379.7	361.8	329.5	297.3	257.9	211.3	171.9	143.3	136.1
85°	121.8	139.7	161.2	171.9	182.7	175.5	146.9	118.2	86.0	71.6	68.1
87.5°	25.1	28.7	32.2	32.2	32.2	28.7	25.1	25.1	21.5	10.7	10.7
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)