

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: P533835

Luminaire Tested: **GALN-SA9B-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29225 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

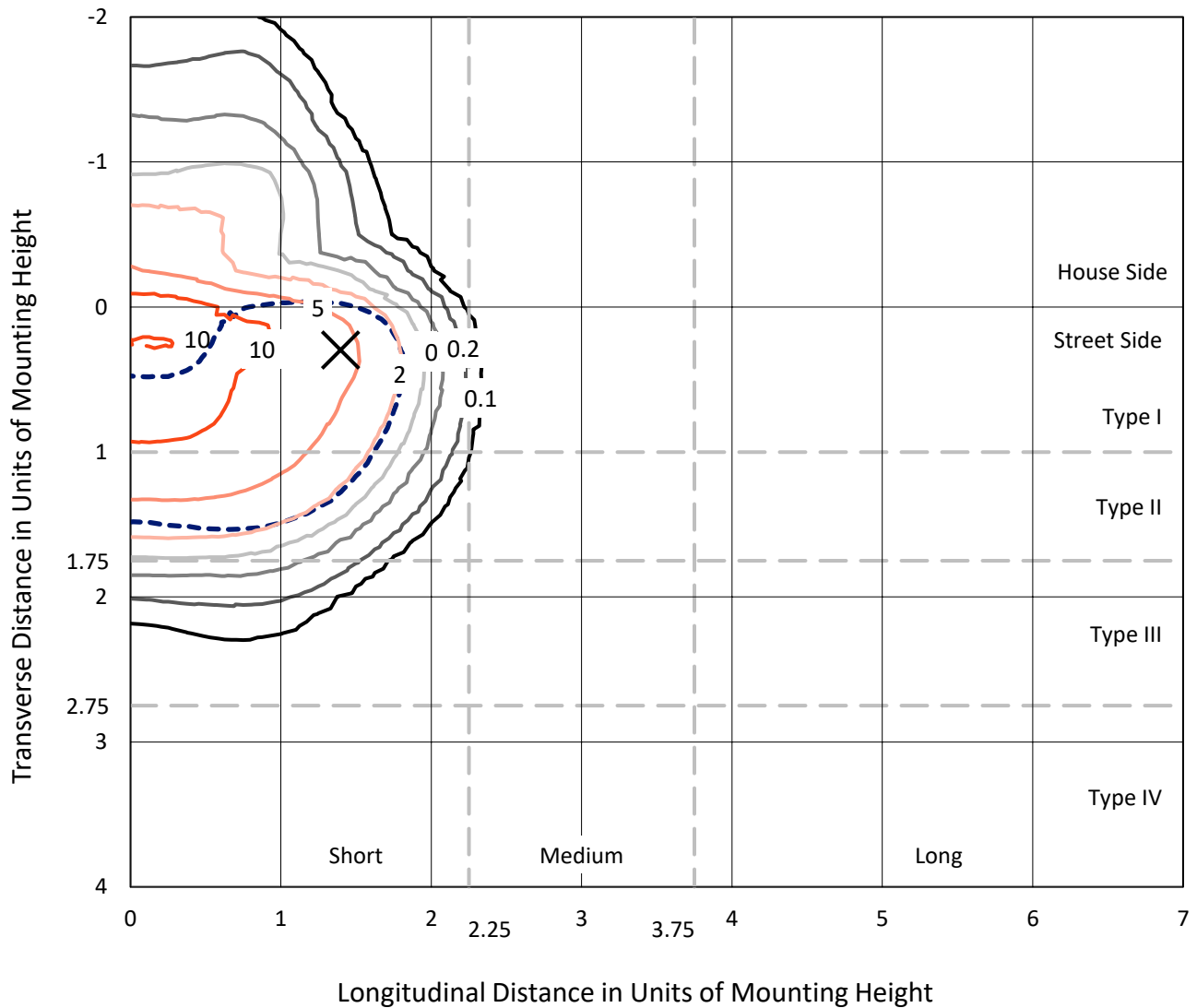
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533835
 CATALOG NUMBER: GALN-SA9B-735-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

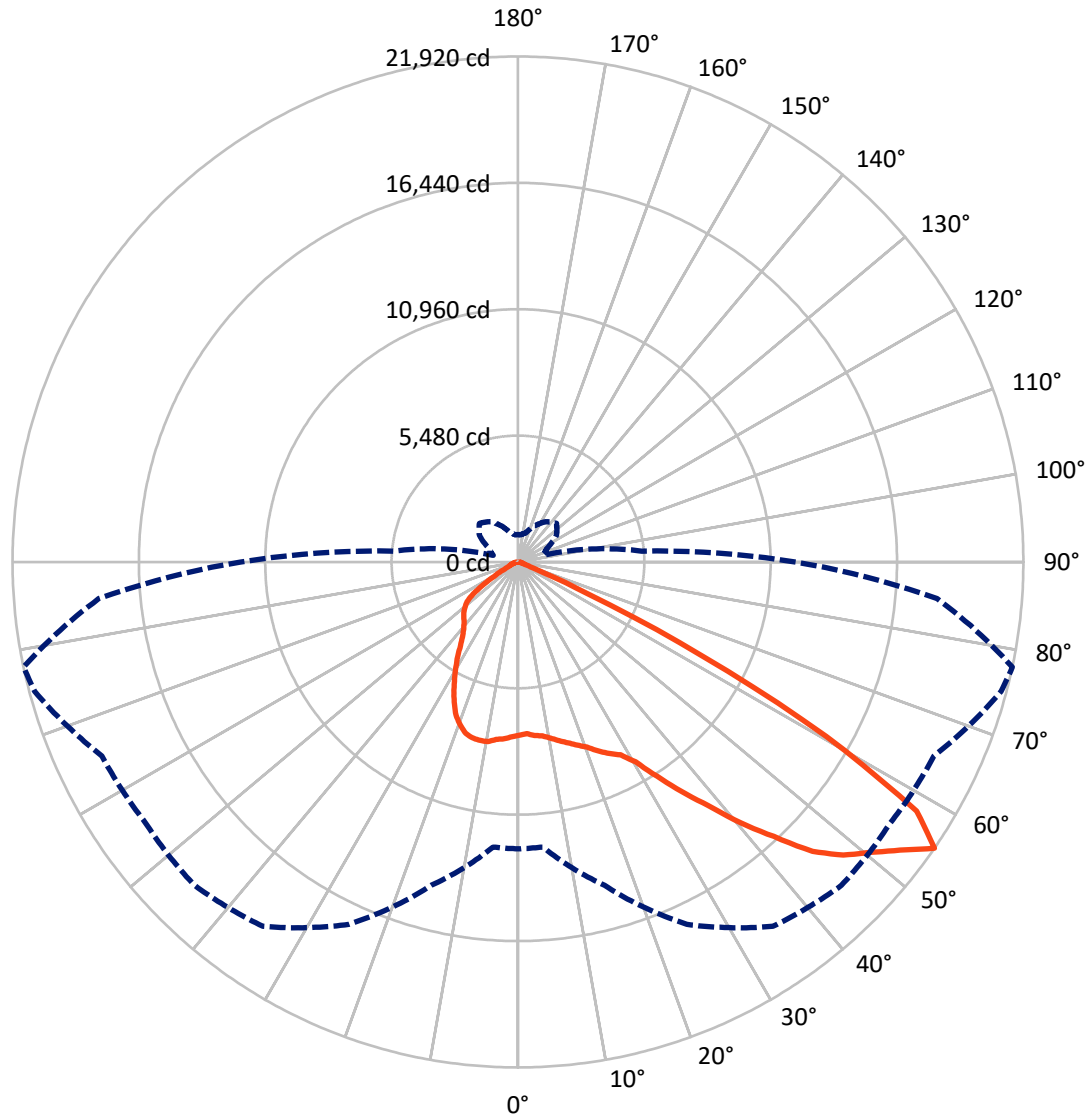
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

REPORT NUMBER: P533835
CATALOG NUMBER: GALN-SA9B-735-U-T3R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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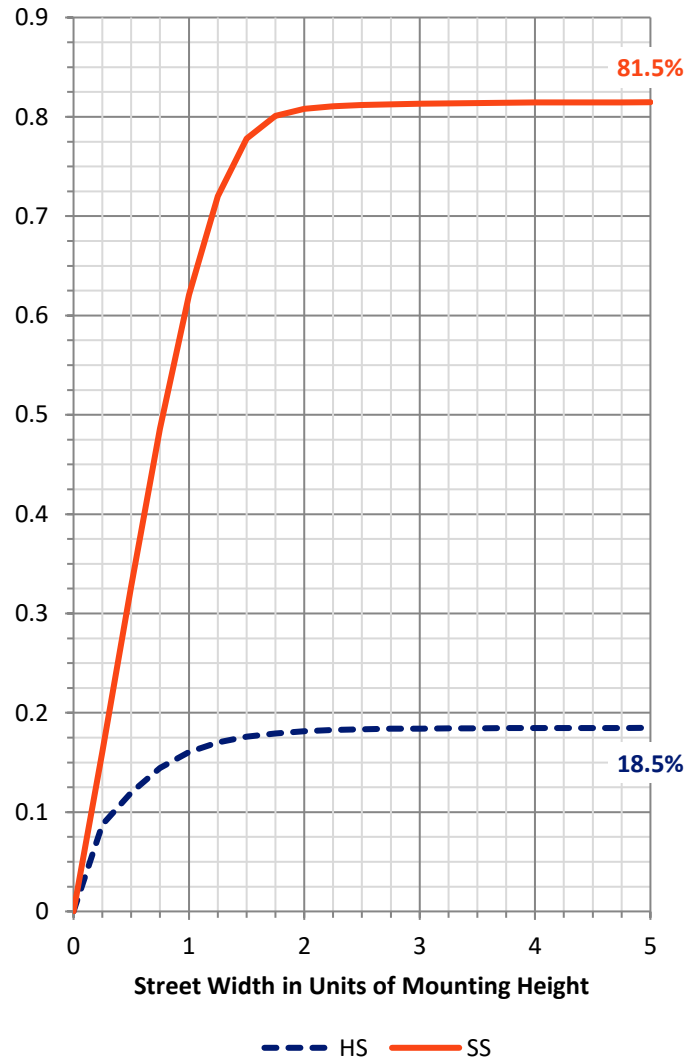
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5428.2	0.0	5428.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	23796.8	0.0	23796.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	29225.0	0.0	29225.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.0	2.3
10°-20°	1773.1	6.1
20°-30°	3108.0	10.6
30°-40°	5124.7	17.5
40°-50°	7457.1	25.5
50°-60°	8449.6	28.9
60°-70°	2415.9	8.3
70°-80°	187.6	0.6
80°-90°	39.0	0.1
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°	29225.0	100.0
0°-180°	29225.0	100.0



REPORT NUMBER: P533835

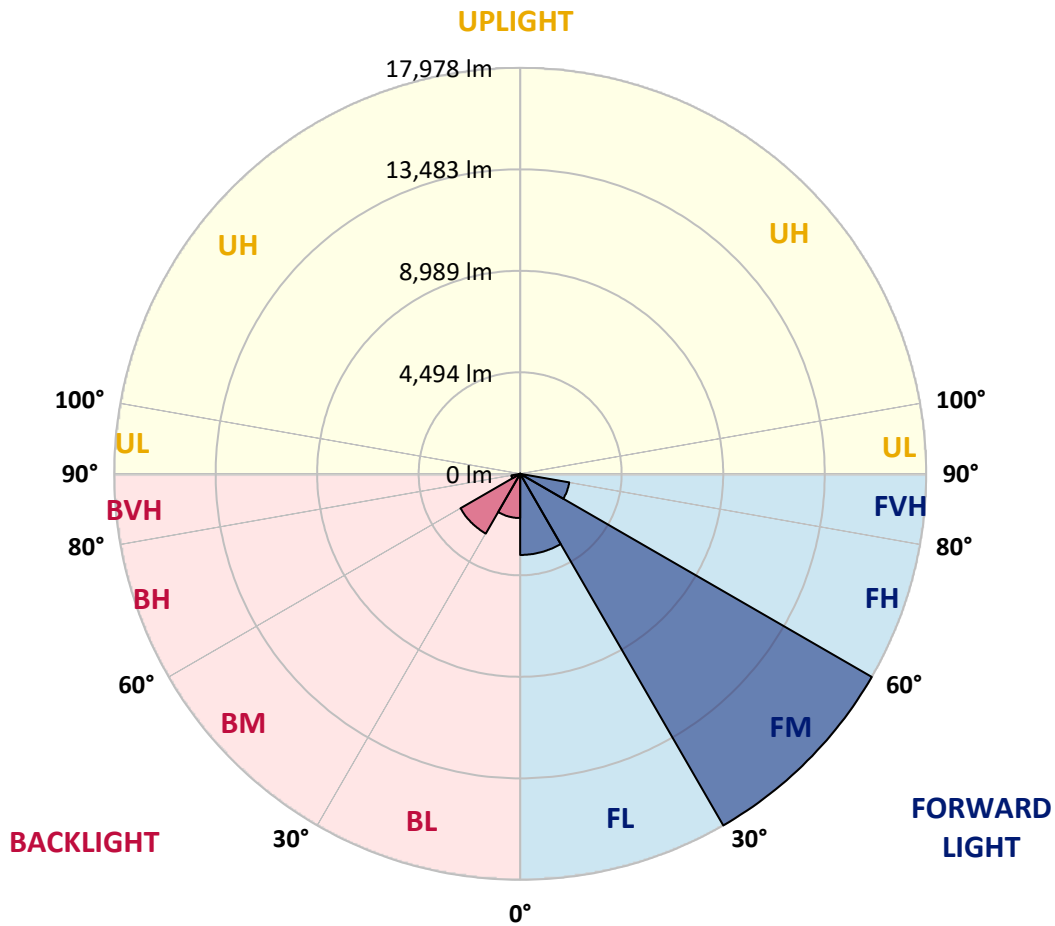
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3592.6	12.3			
FM (30°-60°)	17977.9	61.5			
FH (60°-80°)	2207.3	7.6			G2/5000
FVH (80°-90°)	19.0	0.1			G1/100
BL (0°-30°)	1958.5	6.7	B3/2500		
BM (30°-60°)	3053.5	10.4	B3/5000		
BH (60°-80°)	396.2	1.4	B1/500		G1/500
BVH (80°-90°)	20.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





REPORT NUMBER: P533835

CATALOG NUMBER: GALN-SA9B-735-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	7513.8	7513.8	7513.8	7513.8	7513.8	7513.8	7513.8	7513.8	7513.8	7513.8	7513.8
2.5°	7064.4	7132.3	7142.8	7226.4	7221.2	7362.2	7404.0	7409.3	7503.3	7456.3	7576.5
5°	6865.8	6829.3	6813.6	6959.9	7001.7	7127.1	7231.6	7294.3	7487.6	7555.6	7681.0
7.5°	6688.2	6688.2	6698.6	6829.3	6813.6	6975.6	7085.3	7278.6	7560.8	7618.3	7769.8
10°	6515.8	6453.1	6531.4	6667.3	6782.2	6855.4	7085.3	7268.2	7597.4	7764.6	7973.6
12.5°	6426.9	6458.3	6468.7	6568.0	6693.4	6912.9	7038.3	7341.3	7858.6	7957.9	8182.6
15°	6986.0	6923.3	6771.8	6683.0	6787.5	6892.0	7205.5	7513.8	7994.5	8135.6	8386.4
17.5°	7633.9	7581.7	7456.3	7215.9	6980.8	7174.1	7419.7	7701.9	8140.8	8349.8	8720.8
20°	8480.4	8396.8	8271.4	7801.1	7597.4	7388.4	7649.6	7984.0	8381.1	8569.2	8950.7
22.5°	9488.9	9488.9	9206.7	8637.2	8213.9	8015.4	8125.1	8318.4	8647.6	8903.7	9279.9
25°	10539.1	10507.8	10251.7	9661.3	8945.5	8710.3	8835.7	8971.6	9060.4	9201.5	9452.3
27.5°	11740.9	11558.0	11234.1	10580.9	9948.7	9494.1	9630.0	9509.8	9400.0	9473.2	9833.7
30°	12556.0	12671.0	12258.2	11631.2	11035.5	10528.7	10554.8	10450.3	9948.7	10053.2	10267.4
32.5°	13402.5	13475.7	13245.8	12900.9	12305.2	11714.8	11500.6	11411.7	11035.5	11082.5	10873.5
35°	14107.9	14249.0	14045.2	13893.7	13721.2	13245.8	12655.3	12942.7	12336.6	12221.6	11678.2
37.5°	14755.8	14714.0	14954.4	14797.6	14761.0	14426.6	13778.7	13836.2	13428.6	13402.5	12775.5
40°	15335.8	15346.3	15675.4	15748.6	15602.3	15006.6	14066.1	14520.7	14849.9	14881.2	14076.6
42.5°	15816.5	15957.6	16239.8	16830.2	16610.7	15618.0	14363.9	14860.3	16083.0	16276.3	15309.7
45°	16234.5	16521.9	16872.0	17399.7	17274.3	16485.3	15105.9	15560.5	17399.7	17906.6	16469.7
47.5°	16260.7	16636.9	17018.3	17802.1	17958.8	16950.4	15874.0	16668.2	18444.8	18993.4	17316.1
50°	16156.2	16354.7	17117.6	17969.3	18324.6	17708.0	16950.4	17598.3	19458.5	19803.3	17744.6
52.5°	14917.8	15069.3	16600.3	18126.0	18983.0	18565.0	18376.9	18894.1	20493.0	20749.1	18146.9
55°	12435.9	12409.7	14515.5	17337.0	19286.0	19834.7	19719.7	19902.6	21689.6	21919.5	18246.2
57.5°	8506.5	8982.0	10800.4	14437.1	17431.1	19536.8	19657.0	19354.0	20294.5	20383.3	15905.4
60°	4587.7	4786.2	6249.3	9635.2	13271.9	15921.0	16234.5	15685.9	15612.7	15361.9	11354.2
62.5°	1823.6	1922.9	2753.7	4770.6	7231.6	9677.0	10351.0	10126.3	9645.6	8987.3	5878.3
65°	867.4	930.1	1369.0	2231.1	3208.2	4033.8	4707.9	4916.9	3626.3	3265.7	1938.5
67.5°	590.4	637.5	998.0	1274.9	1144.3	1196.6	1557.1	1447.4	851.7	726.3	538.2
70°	449.4	480.7	799.4	867.4	512.1	360.5	402.3	376.2	350.1	355.3	350.1
72.5°	318.7	344.9	585.2	512.1	224.7	167.2	214.2	256.0	256.0	256.0	250.8
75°	193.3	219.5	339.6	198.6	88.8	88.8	135.9	172.4	182.9	188.1	177.7
77.5°	99.3	125.4	115.0	57.5	57.5	67.9	99.3	120.2	130.6	130.6	125.4
80°	20.9	20.9	20.9	31.4	57.5	73.2	99.3	109.7	125.4	125.4	115.0
82.5°	0.0	5.2	15.7	31.4	52.3	67.9	94.1	109.7	125.4	130.6	120.2
85°	0.0	5.2	10.5	20.9	36.6	41.8	36.6	31.4	31.4	31.4	31.4
87.5°	0.0	0.0	5.2	5.2	5.2	10.5	10.5	10.5	10.5	10.5	10.5
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: P533835

CATALOG NUMBER: GALN-SA9B-735-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7513.8	7513.8	7513.8	7513.8	7513.8	7513.8	7513.8	7513.8	7513.8	7513.8	7513.8
2.5°	7586.9	7602.6	7576.5	7571.2	7550.3	7613.0	7461.5	7424.9	7519.0	7430.2	7451.1
5°	7686.2	7722.8	7675.7	7597.4	7482.4	7304.8	7153.2	6954.7	6860.6	6792.7	6782.2
7.5°	7759.3	7785.5	7738.4	7487.6	7142.8	6693.4	6359.0	6113.4	5920.1	5862.6	5768.6
10°	8057.2	8062.4	7827.3	7273.4	6599.4	6008.9	5496.9	5120.6	4927.3	4807.1	4754.9
12.5°	8255.7	8245.3	7769.8	6850.2	5951.4	5167.7	4582.5	4127.9	3950.2	3892.7	3856.2
15°	8506.5	8449.1	7633.9	6416.5	5115.4	4268.9	3741.2	3427.7	3412.0	3375.4	3412.0
17.5°	8705.1	8543.1	7435.4	5627.5	4316.0	3516.5	3171.7	3192.6	3234.4	3270.9	3276.2
20°	9029.1	8694.6	6980.8	4937.8	3574.0	3014.9	3009.7	3103.7	3208.2	3250.0	3291.8
22.5°	9274.6	8757.4	6494.9	4201.0	2967.9	2811.1	2900.0	3041.0	3119.4	3161.2	3223.9
25°	9363.5	8584.9	5846.9	3464.3	2675.3	2717.1	2852.9	2947.0	3046.3	3093.3	3067.2
27.5°	9452.3	8496.1	5073.6	2852.9	2518.5	2654.4	2769.3	2863.4	2894.7	2957.4	2999.2
30°	9666.5	8187.8	4378.7	2466.3	2440.1	2612.6	2696.2	2727.5	2811.1	2847.7	2847.7
32.5°	9839.0	8067.6	3641.9	2283.4	2429.7	2633.5	2643.9	2643.9	2654.4	2628.3	2617.8
35°	10194.3	7654.8	2983.6	2173.7	2424.5	2638.7	2664.8	2576.0	2335.6	2241.6	2215.5
37.5°	10633.2	7388.4	2497.6	2147.5	2461.0	2701.4	2743.2	2408.8	2095.3	1943.8	1917.6
40°	11166.1	7200.3	2178.9	2137.1	2544.6	2847.7	2722.3	2278.2	1870.6	1651.1	1640.7
42.5°	11787.9	7027.8	1964.7	2131.9	2649.2	2999.2	2701.4	2168.4	1640.7	1494.4	1515.3
45°	12284.3	6933.8	1818.4	2095.3	2685.7	3088.1	2717.1	1975.1	1546.6	1452.6	1463.0
47.5°	12671.0	6735.2	1698.2	2032.6	2680.5	3119.4	2576.0	1896.7	1499.6	1525.7	1551.9
50°	12681.4	6468.7	1546.6	1896.7	2602.1	3061.9	2414.0	1823.6	1489.2	1598.9	1651.1
52.5°	12540.4	6092.5	1384.7	1703.4	2419.2	2863.4	2267.7	1792.2	1442.1	1431.7	1494.4
55°	12038.7	5387.1	1113.0	1379.4	2043.0	2361.8	2137.1	1734.7	1301.1	1180.9	1191.3
57.5°	9729.2	3861.4	820.3	987.6	1447.4	1729.5	1928.1	1708.6	1170.4	1003.2	1008.5
60°	6024.6	2189.3	600.9	674.0	893.5	1050.3	1562.3	1588.4	1045.0	846.5	836.0
62.5°	3093.3	1081.6	465.0	475.5	548.6	616.6	1071.2	1332.4	945.8	804.7	804.7
65°	1034.6	533.0	407.6	365.8	365.8	381.4	647.9	924.9	799.4	674.0	674.0
67.5°	444.1	397.1	355.3	318.7	292.6	276.9	365.8	538.2	595.7	512.1	491.2
70°	344.9	334.4	308.3	266.5	229.9	209.0	214.2	276.9	339.6	329.2	318.7
72.5°	256.0	256.0	245.6	209.0	177.7	151.5	141.1	146.3	162.0	167.2	172.4
75°	177.7	182.9	182.9	162.0	130.6	109.7	94.1	78.4	62.7	52.3	47.0
77.5°	120.2	125.4	135.9	120.2	99.3	73.2	57.5	41.8	26.1	10.5	10.5
80°	104.5	120.2	130.6	120.2	104.5	78.4	57.5	31.4	15.7	0.0	0.0
82.5°	109.7	120.2	135.9	115.0	99.3	73.2	57.5	36.6	15.7	5.2	0.0
85°	26.1	26.1	31.4	36.6	47.0	52.3	41.8	26.1	15.7	5.2	0.0
87.5°	10.5	10.5	10.5	10.5	10.5	5.2	5.2	5.2	5.2	0.0	0.0
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)