

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: P533263

Luminaire Tested: **GALN-SA8C-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533263
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-SA8C-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA 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: 27436 lumens
Efficiency: N/A
Efficacy: 64.0 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

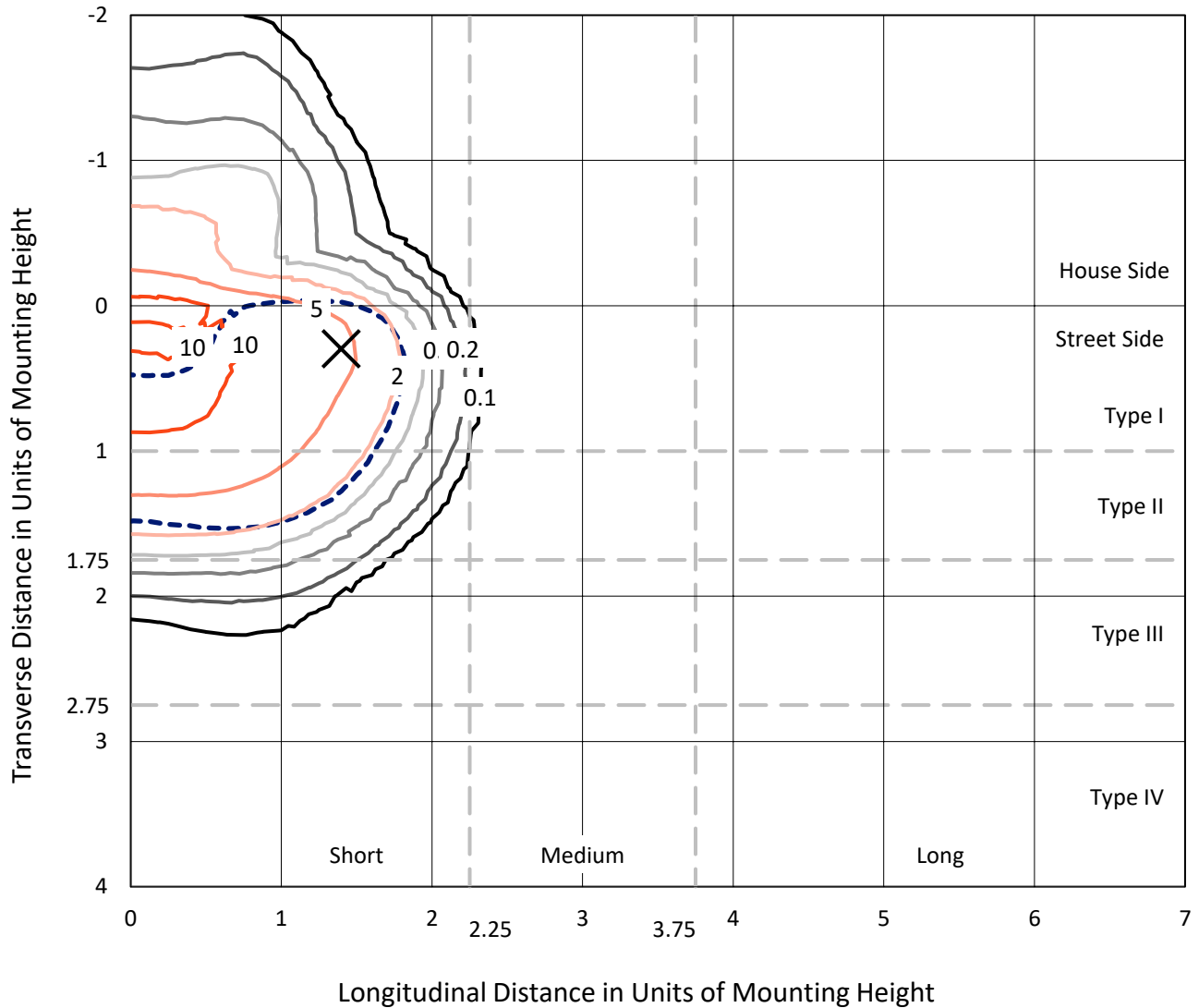
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533263
 CATALOG NUMBER: GALN-SA8C-830-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

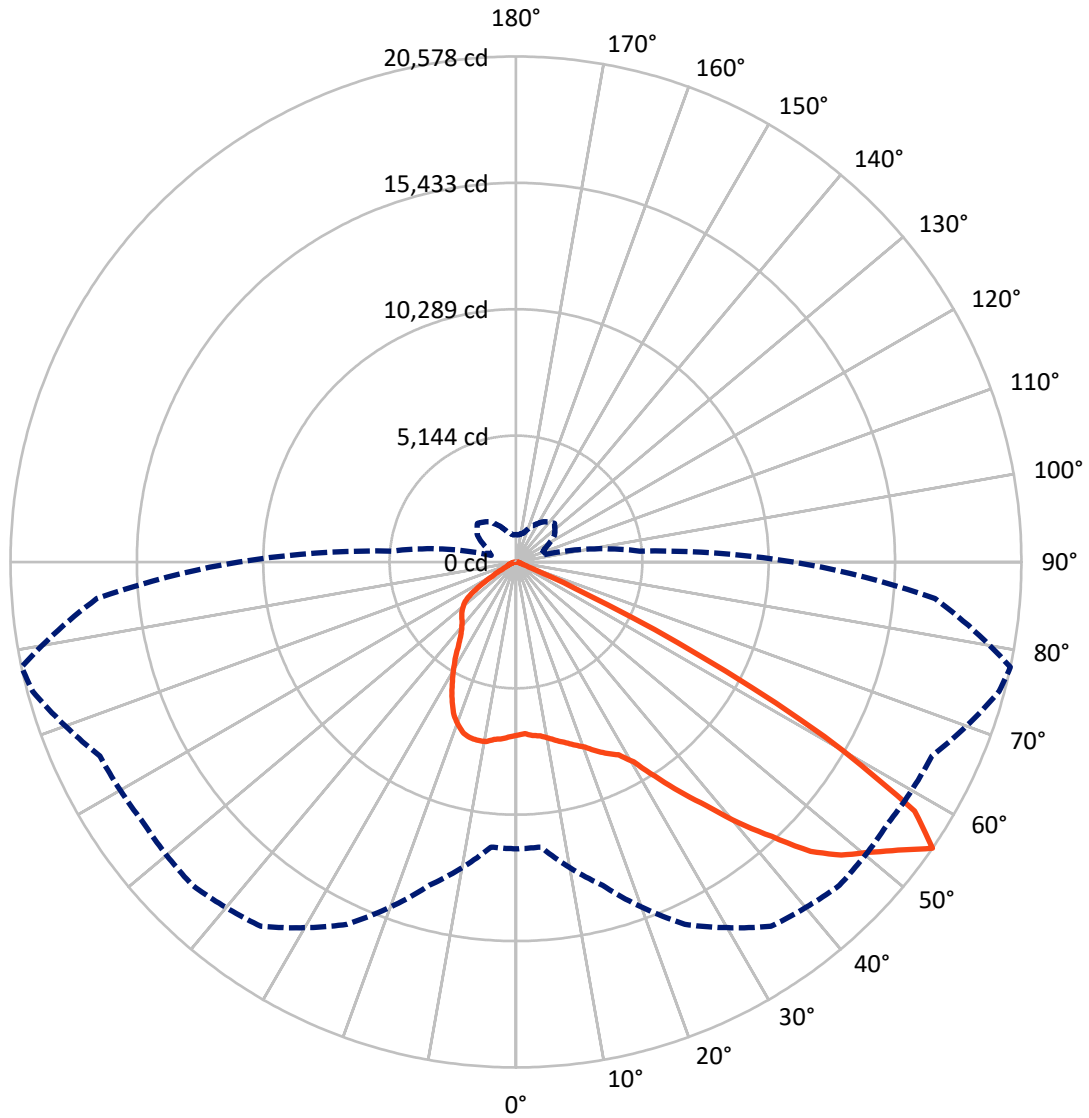
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - N/A

REPORT NUMBER: P533263
CATALOG NUMBER: GALN-SA8C-830-U-T3R-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P533263

CATALOG NUMBER: GALN-SA8C-830-U-T3R-GRSBK

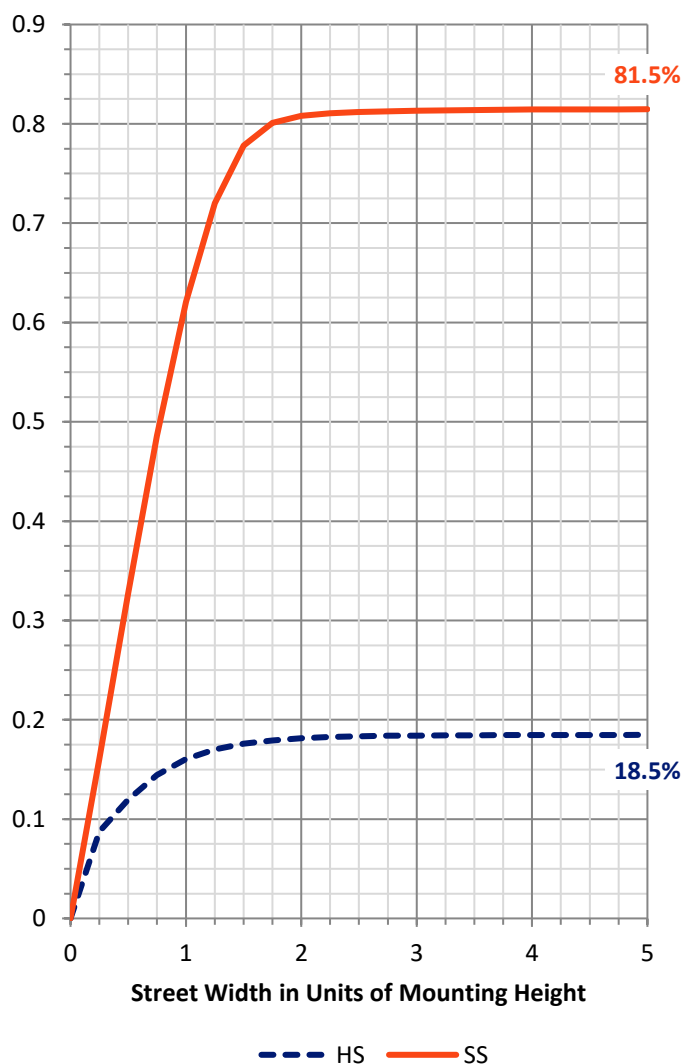
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5095.9	0.0	5095.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	22340.1	0.0	22340.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	27436.0	0.0	27436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.0	2.3
10°-20°	1664.6	6.1
20°-30°	2917.7	10.6
30°-40°	4811.0	17.5
40°-50°	7000.6	25.5
50°-60°	7932.4	28.9
60°-70°	2268.0	8.3
70°-80°	176.1	0.6
80°-90°	36.6	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°	27436.0	100.0
0°-180°	27436.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533263

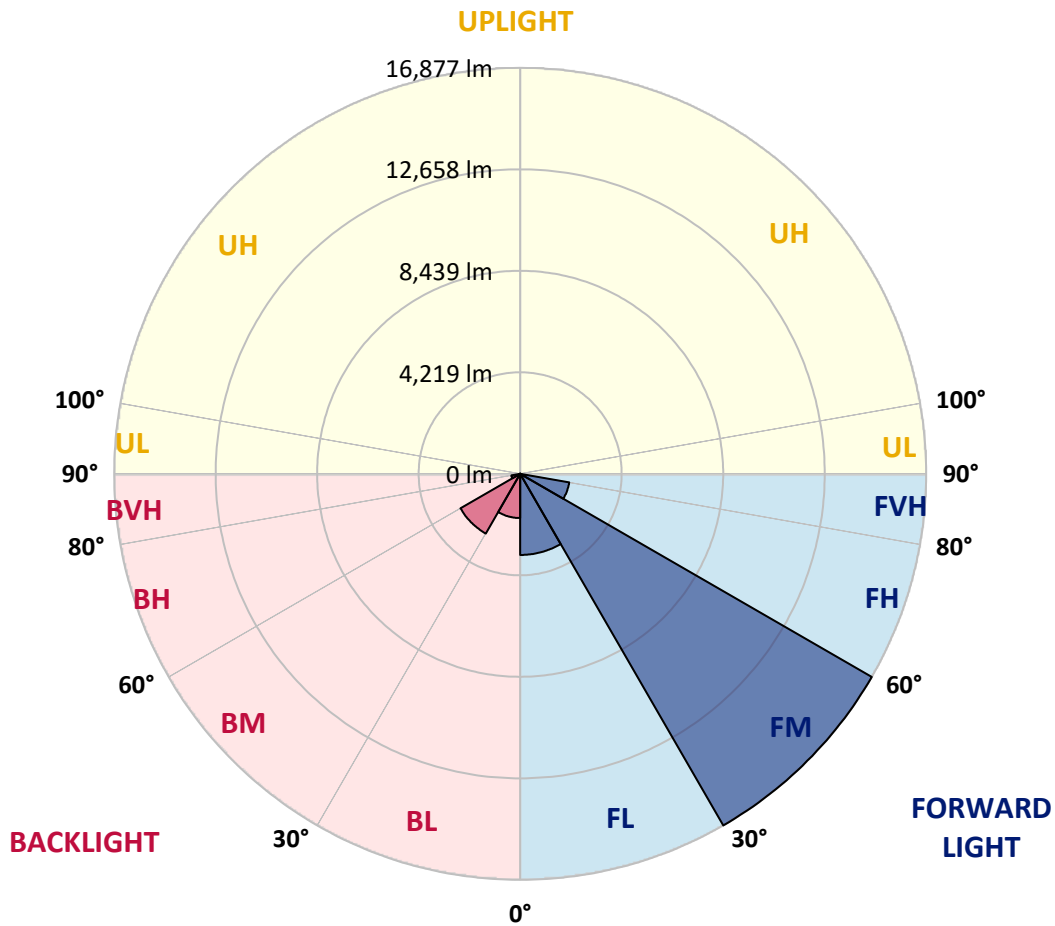
CATALOG NUMBER: GALN-SA8C-830-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3372.7	12.3			
FM (30°-60°)	16877.4	61.5			
FH (60°-80°)	2072.1	7.6			G2/5000
FVH (80°-90°)	17.8	0.1			G1/100
BL (0°-30°)	1838.6	6.7	B3/2500		
BM (30°-60°)	2866.5	10.4	B3/5000		
BH (60°-80°)	372.0	1.4	B1/500		G1/500
BVH (80°-90°)	18.8	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: P533263

CATALOG NUMBER: GALN-SA8C-830-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	7053.8	7053.8	7053.8	7053.8	7053.8	7053.8	7053.8	7053.8	7053.8	7053.8	7053.8
2.5°	6632.0	6695.7	6705.5	6784.0	6779.1	6911.6	6950.8	6955.7	7044.0	6999.9	7112.7
5°	6445.6	6411.2	6396.5	6533.9	6573.1	6690.8	6788.9	6847.8	7029.3	7093.1	7210.8
7.5°	6278.8	6278.8	6288.6	6411.2	6396.5	6548.6	6651.6	6833.1	7098.0	7151.9	7294.2
10°	6116.9	6058.0	6131.6	6259.2	6367.1	6435.7	6651.6	6823.3	7132.3	7289.3	7485.5
12.5°	6033.5	6062.9	6072.8	6166.0	6283.7	6489.7	6607.4	6891.9	7377.6	7470.8	7681.7
15°	6558.4	6499.5	6357.3	6273.9	6372.0	6470.1	6764.4	7053.8	7505.1	7637.5	7873.0
17.5°	7166.6	7117.6	6999.9	6774.2	6553.5	6735.0	6965.5	7230.4	7642.4	7838.7	8186.9
20°	7961.3	7882.8	7765.1	7323.6	7132.3	6936.1	7181.3	7495.3	7868.1	8044.7	8402.8
22.5°	8908.0	8908.0	8643.1	8108.4	7711.1	7524.7	7627.7	7809.2	8118.3	8358.6	8711.8
25°	9894.0	9864.5	9624.2	9069.9	8397.9	8177.1	8294.9	8422.4	8505.8	8638.2	8873.7
27.5°	11022.2	10850.5	10546.4	9933.2	9339.7	8912.9	9040.5	8927.6	8824.6	8893.3	9231.8
30°	11787.4	11895.3	11507.8	10919.2	10360.0	9884.2	9908.7	9810.6	9339.7	9437.8	9638.9
32.5°	12582.1	12650.8	12434.9	12111.2	11552.0	10997.7	10796.6	10713.2	10360.0	10404.1	10207.9
35°	13244.3	13376.7	13185.4	13043.2	12881.3	12434.9	11880.6	12150.4	11581.4	11473.5	10963.3
37.5°	13852.5	13813.3	14038.9	13891.8	13857.5	13543.5	12935.3	12989.2	12606.6	12582.1	11993.4
40°	14397.0	14406.8	14715.9	14784.6	14647.2	14088.0	13205.0	13631.8	13940.8	13970.3	13214.9
42.5°	14848.3	14980.8	15245.7	15799.9	15593.9	14661.9	13484.7	13950.7	15098.5	15280.0	14372.5
45°	15240.7	15510.5	15839.2	16334.6	16216.9	15476.2	14181.2	14608.0	16334.6	16810.4	15461.5
47.5°	15265.3	15618.5	15976.5	16712.3	16859.5	15912.8	14902.3	15647.9	17315.7	17830.7	16256.1
50°	15167.2	15353.6	16069.7	16869.3	17202.9	16624.0	15912.8	16521.0	18267.3	18591.1	16658.4
52.5°	14004.6	14146.9	15584.1	17016.5	17820.9	17428.5	17251.9	17737.5	19238.6	19478.9	17036.1
55°	11674.6	11650.1	13626.9	16275.8	18105.4	18620.5	18512.6	18684.3	20361.9	20577.7	17129.3
57.5°	7985.8	8432.2	10139.2	13553.3	16364.1	18340.9	18453.7	18169.2	19052.2	19135.5	14931.7
60°	4306.8	4493.2	5866.7	9045.4	12459.4	14946.4	15240.7	14725.7	14657.0	14421.6	10659.2
62.5°	1711.9	1805.1	2585.1	4478.5	6788.9	9084.6	9717.4	9506.5	9055.2	8437.1	5518.5
65°	814.3	873.1	1285.2	2094.6	3011.9	3786.9	4419.7	4615.9	3404.3	3065.8	1819.9
67.5°	554.3	598.4	936.9	1196.9	1074.3	1123.3	1461.8	1358.8	799.6	681.8	505.2
70°	421.9	451.3	750.5	814.3	480.7	338.5	377.7	353.2	328.7	333.6	328.7
72.5°	299.2	323.7	549.4	480.7	210.9	157.0	201.1	240.4	240.4	240.4	235.5
75°	181.5	206.0	318.8	186.4	83.4	83.4	127.5	161.9	171.7	176.6	166.8
77.5°	93.2	117.7	107.9	54.0	54.0	63.8	93.2	112.8	122.6	122.6	117.7
80°	19.6	19.6	19.6	29.4	54.0	68.7	93.2	103.0	117.7	117.7	107.9
82.5°	0.0	4.9	14.7	29.4	49.1	63.8	88.3	103.0	117.7	122.6	112.8
85°	0.0	4.9	9.8	19.6	34.3	39.2	34.3	29.4	29.4	29.4	29.4
87.5°	0.0	0.0	4.9	4.9	4.9	9.8	9.8	9.8	9.8	9.8	9.8
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: P533263

CATALOG NUMBER: GALN-SA8C-830-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7053.8	7053.8	7053.8	7053.8	7053.8	7053.8	7053.8	7053.8	7053.8	7053.8	7053.8
2.5°	7122.5	7137.2	7112.7	7107.8	7088.1	7147.0	7004.8	6970.4	7058.7	6975.3	6994.9
5°	7215.7	7250.0	7205.9	7132.3	7024.4	6857.6	6715.3	6528.9	6440.7	6376.9	6367.1
7.5°	7284.4	7308.9	7264.7	7029.3	6705.5	6283.7	5969.7	5739.2	5557.7	5503.7	5415.4
10°	7564.0	7568.9	7348.1	6828.2	6195.4	5641.1	5160.4	4807.2	4625.7	4512.9	4463.8
12.5°	7750.4	7740.6	7294.2	6430.8	5587.1	4851.3	4301.9	3875.2	3708.4	3654.4	3620.1
15°	7985.8	7931.9	7166.6	6023.7	4802.3	4007.6	3512.2	3217.9	3203.2	3168.8	3203.2
17.5°	8172.2	8020.2	6980.2	5283.0	4051.8	3301.3	2977.5	2997.1	3036.4	3070.7	3075.6
20°	8476.3	8162.4	6553.5	4635.5	3355.2	2830.4	2825.4	2913.7	3011.9	3051.1	3090.3
22.5°	8706.9	8221.3	6097.3	3943.9	2786.2	2639.0	2722.4	2854.9	2928.5	2967.7	3026.6
25°	8790.3	8059.4	5489.0	3252.2	2511.5	2550.8	2678.3	2766.6	2859.8	2903.9	2879.4
27.5°	8873.7	7976.0	4763.0	2678.3	2364.4	2491.9	2599.8	2688.1	2717.5	2776.4	2815.6
30°	9074.8	7686.6	4110.6	2315.3	2290.8	2452.6	2531.1	2560.6	2639.0	2673.4	2673.4
32.5°	9236.7	7573.8	3419.0	2143.6	2281.0	2472.3	2482.1	2482.1	2491.9	2467.4	2457.6
35°	9570.2	7186.3	2800.9	2040.6	2276.1	2477.2	2501.7	2418.3	2192.7	2104.4	2079.8
37.5°	9982.3	6936.1	2344.7	2016.1	2310.4	2536.0	2575.3	2261.3	1967.0	1824.8	1800.2
40°	10482.6	6759.5	2045.5	2006.3	2388.9	2673.4	2555.7	2138.7	1756.1	1550.1	1540.3
42.5°	11066.3	6597.6	1844.4	2001.4	2487.0	2815.6	2536.0	2035.7	1540.3	1402.9	1422.5
45°	11532.3	6509.3	1707.0	1967.0	2521.3	2899.0	2550.8	1854.2	1452.0	1363.7	1373.5
47.5°	11895.3	6322.9	1594.2	1908.2	2516.4	2928.5	2418.3	1780.6	1407.8	1432.3	1456.9
50°	11905.1	6072.8	1452.0	1780.6	2442.8	2874.5	2266.2	1711.9	1398.0	1501.0	1550.1
52.5°	11772.7	5719.6	1299.9	1599.1	2271.2	2688.1	2128.9	1682.5	1353.9	1344.1	1402.9
55°	11301.8	5057.4	1044.8	1295.0	1918.0	2217.2	2006.3	1628.6	1221.4	1108.6	1118.4
57.5°	9133.7	3625.0	770.1	927.1	1358.8	1623.7	1810.1	1604.0	1098.8	941.8	946.7
60°	5655.8	2055.3	564.1	632.8	838.8	986.0	1466.7	1491.2	981.1	794.7	784.8
62.5°	2903.9	1015.4	436.6	446.4	515.1	578.8	1005.6	1250.8	887.9	755.4	755.4
65°	971.2	500.3	382.6	343.4	343.4	358.1	608.3	868.2	750.5	632.8	632.8
67.5°	416.9	372.8	333.6	299.2	274.7	260.0	343.4	505.2	559.2	480.7	461.1
70°	323.7	313.9	289.4	250.2	215.8	196.2	201.1	260.0	318.8	309.0	299.2
72.5°	240.4	240.4	230.5	196.2	166.8	142.3	132.4	137.3	152.1	157.0	161.9
75°	166.8	171.7	171.7	152.1	122.6	103.0	88.3	73.6	58.9	49.1	44.1
77.5°	112.8	117.7	127.5	112.8	93.2	68.7	54.0	39.2	24.5	9.8	9.8
80°	98.1	112.8	122.6	112.8	98.1	73.6	54.0	29.4	14.7	0.0	0.0
82.5°	103.0	112.8	127.5	107.9	93.2	68.7	54.0	34.3	14.7	4.9	0.0
85°	24.5	24.5	29.4	34.3	44.1	49.1	39.2	24.5	14.7	4.9	0.0
87.5°	9.8	9.8	9.8	9.8	9.8	4.9	4.9	4.9	4.9	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)