

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: P646988

Luminaire Tested: **GALN-SA6C-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-835-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29455.7 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

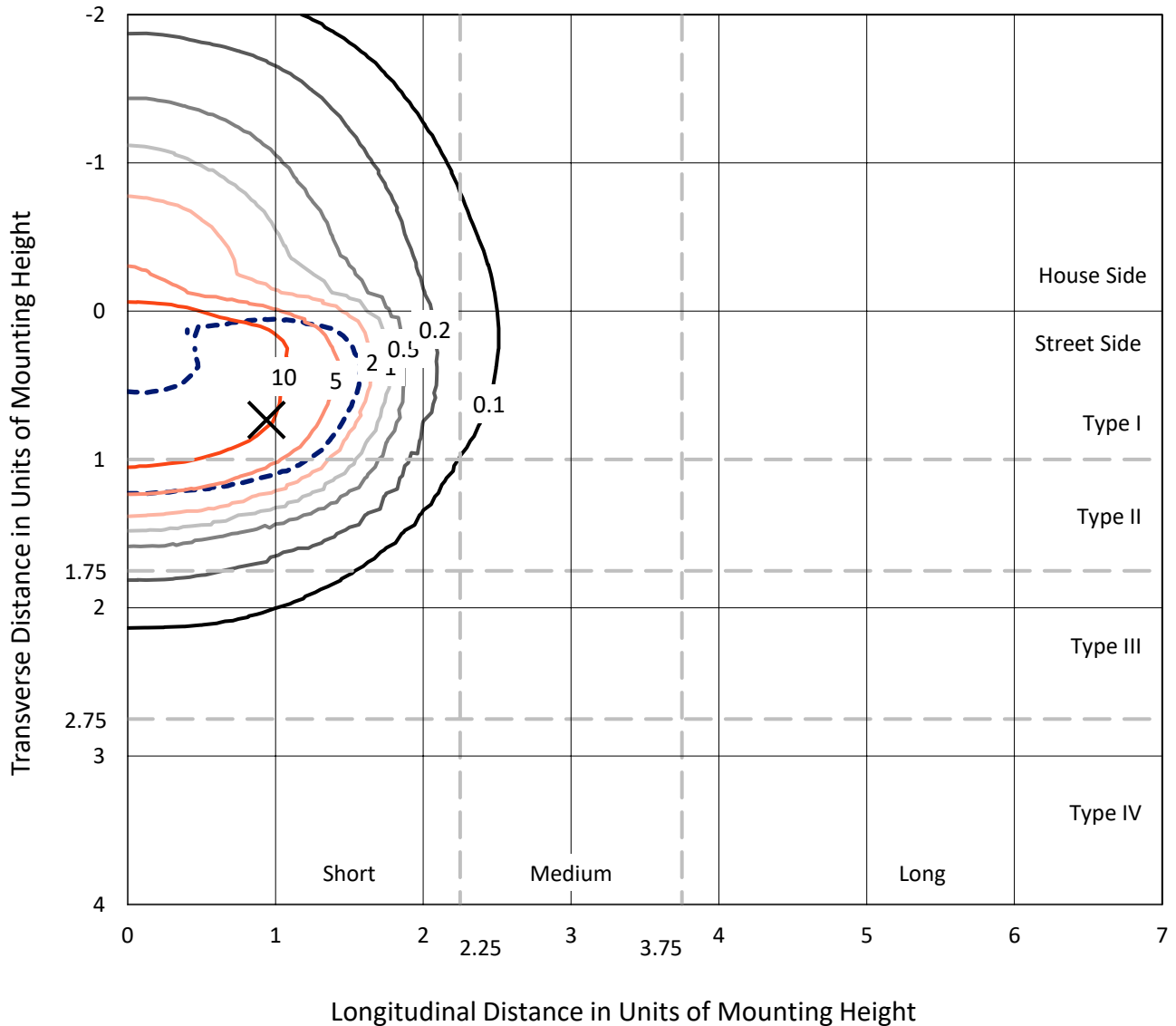
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P646988
 CATALOG NUMBER: GALN-SA6C-835-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

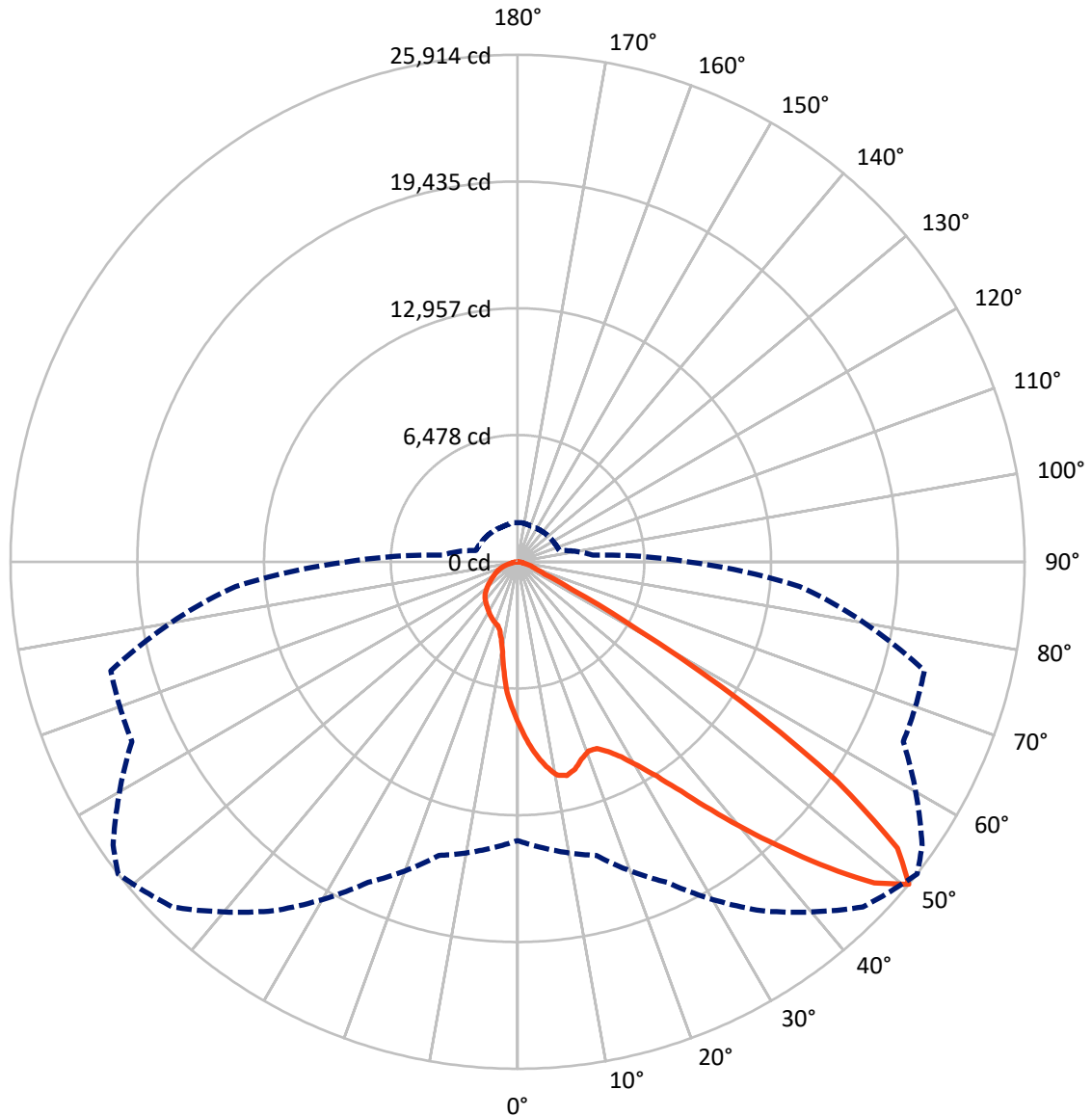
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type II - Short - N/A

REPORT NUMBER: P646988
CATALOG NUMBER: GALN-SA6C-835-U-AFL-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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 CATALOG NUMBER: GALN-SA6C-835-U-AFL-GRSWH

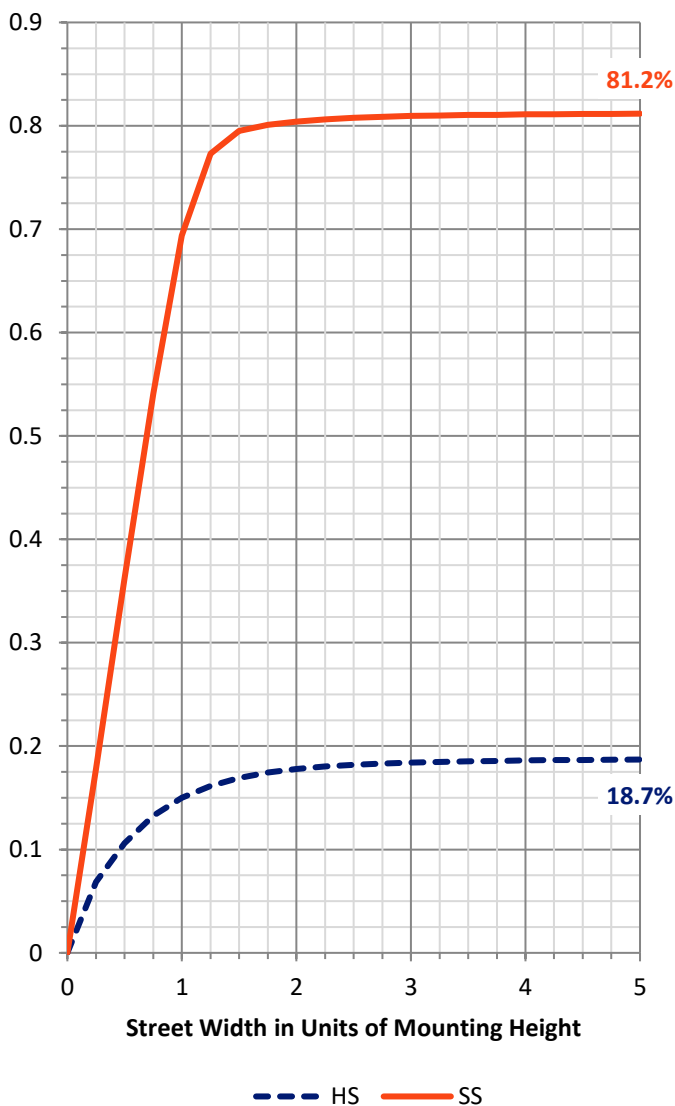
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5537.0	0.0	5537.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	23918.7	0.0	23918.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	29455.7	0.0	29455.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	765.3	2.6
10°-20°	2051.2	7.0
20°-30°	3455.1	11.7
30°-40°	5798.0	19.7
40°-50°	8869.5	30.1
50°-60°	6466.6	22.0
60°-70°	1439.1	4.9
70°-80°	519.1	1.8
80°-90°	91.9	0.3
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°	29455.7	100.0
0°-180°	29455.7	100.0

Coefficient of Utilization



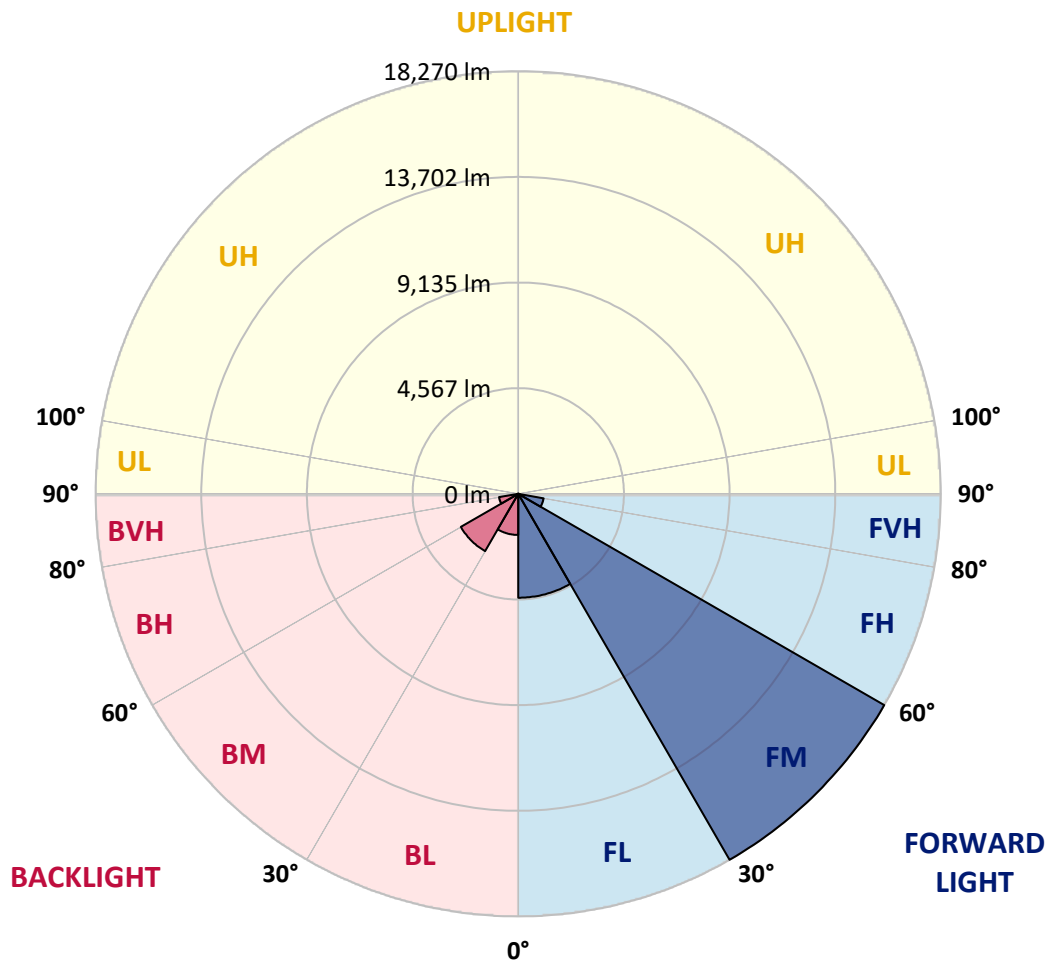
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 CATALOG NUMBER: GALN-SA6C-835-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4493.0	15.3			
FM (30°-60°)	18269.9	62.0			
FH (60°-80°)	1114.6	3.8			G1/1800
FVH (80°-90°)	41.2	0.1			G1/100
BL (0°-30°)	1778.6	6.0	B3/2500		
BM (30°-60°)	2864.1	9.7	B3/5000		
BH (60°-80°)	843.6	2.9	B2/1000		G2/1000
BVH (80°-90°)	50.7	0.2			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: P646988

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1
2.5°	9776.2	9588.1	9609.4	9474.5	9329.0	9286.4	9137.3	8995.3	8888.8	8661.6	8452.2
5°	10685.0	10628.2	10543.0	10436.5	10326.4	10056.7	9904.0	9726.6	9336.1	8984.6	8636.7
7.5°	10816.4	10805.7	10851.8	10851.8	10890.9	10787.9	10571.4	10447.2	10031.9	9460.3	8814.2
10°	9893.4	9925.3	10149.0	10440.1	10844.8	11125.2	11089.7	11057.8	10603.4	9822.4	9023.7
12.5°	9158.6	9087.6	9219.0	9467.4	10074.5	10752.5	11210.4	11214.0	11096.8	10401.1	9176.3
15°	8743.2	8792.9	8828.5	8945.6	9403.5	10188.0	10993.9	11231.7	11746.4	10809.2	9417.7
17.5°	9009.5	8842.7	8835.5	8864.0	9098.2	9687.5	10592.7	11000.9	12101.4	11334.6	9715.9
20°	9357.4	9353.8	9254.4	9219.0	9215.4	9740.8	10330.0	10883.8	12289.5	12016.2	10017.6
22.5°	9967.9	9967.9	9804.6	9726.6	9559.7	9989.2	10365.5	10741.8	12601.9	12484.8	10163.2
25°	10990.3	10823.5	10543.0	10351.3	10255.5	10408.1	10741.8	11079.1	12875.3	12981.7	10465.0
27.5°	11934.6	11671.9	11533.4	11203.3	11075.5	10986.7	11292.0	11632.8	13194.7	13755.6	10628.2
30°	13006.6	12960.5	12711.9	12286.0	11970.0	11806.8	12087.2	12424.4	13780.5	14547.2	11004.5
32.5°	14923.5	14504.6	14167.4	13645.6	13130.8	12782.9	13059.8	13283.5	14753.1	15374.4	11416.3
35°	16993.1	16858.1	16276.0	15335.3	14547.2	14234.9	14398.1	14565.0	15885.5	16638.0	12108.5
37.5°	19027.1	18842.5	18363.3	17571.7	16613.2	15977.8	16095.0	16290.2	17156.4	18342.0	12953.3
40°	20489.6	20262.5	20021.1	19903.9	18952.6	18082.8	18015.4	18065.1	18874.4	19939.4	13890.5
42.5°	20596.2	20876.6	20951.1	21423.3	21199.6	20486.1	20070.8	20081.4	20514.5	21519.1	14838.3
45°	20372.5	20113.4	20663.6	21952.2	22690.6	23024.3	22324.9	22236.2	21529.8	22435.0	15310.5
47.5°	18026.1	18097.1	19027.1	21064.7	23198.2	24689.1	24525.8	24231.2	22072.8	22403.0	15235.9
50°	14249.0	14678.6	15541.2	18079.3	21778.3	24951.8	25913.8	25232.3	21749.9	21522.6	14476.3
52.5°	9488.7	9666.2	10234.2	13510.7	17511.3	22303.6	24316.4	24472.6	21451.7	20369.0	13514.2
55°	4224.3	4210.1	5008.9	7057.1	10986.7	16971.8	19868.5	20819.8	20305.1	19194.0	12577.1
57.5°	1789.2	1849.4	2176.0	3049.3	5402.9	10241.2	13460.9	14295.2	15615.8	15761.2	9648.4
60°	1210.5	1217.6	1306.4	1526.5	2261.2	4810.0	7060.6	8061.7	9005.9	8942.0	5118.9
62.5°	951.3	976.2	1043.7	1132.4	1341.8	2183.2	3159.3	3716.7	3777.0	3177.1	1941.8
65°	812.9	816.4	883.9	958.5	1050.8	1270.8	1522.9	1551.3	1569.1	1512.2	1427.0
67.5°	671.0	678.0	731.2	816.4	901.6	972.6	1043.7	1079.1	1160.8	1320.5	1299.2
70°	532.4	543.1	589.3	660.3	738.4	781.0	869.7	901.6	976.2	1100.4	1150.1
72.5°	404.7	408.3	447.2	497.0	568.0	610.6	685.1	720.6	770.3	876.8	922.9
75°	291.1	301.8	330.1	355.0	365.7	394.0	465.0	504.1	575.0	621.2	624.8
77.5°	152.6	159.7	166.9	166.9	202.3	255.6	301.8	323.1	372.7	408.3	390.5
80°	60.4	63.9	81.7	110.0	142.0	184.6	216.6	227.2	269.8	291.1	301.8
82.5°	35.5	39.1	53.2	78.1	103.0	131.3	156.2	166.9	195.2	220.1	227.2
85°	17.8	21.3	31.9	49.7	67.4	81.7	78.1	74.5	74.5	71.0	74.5
87.5°	7.1	7.1	10.6	10.6	10.6	14.2	17.8	17.8	17.8	21.3	21.3
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: P646988

CATALOG NUMBER: GALN-SA6C-835-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1	8303.1
2.5°	8313.7	8171.7	8040.4	7799.0	7536.3	7461.8	7156.5	7046.5	6968.3	6876.1	6847.6
5°	8356.3	8168.2	7745.7	7259.4	6872.5	6375.5	6048.9	5697.5	5441.9	5378.0	5360.3
7.5°	8445.0	8122.1	7394.3	6659.5	5867.9	5193.4	4678.7	4401.8	4156.9	4142.7	4117.8
10°	8544.5	7983.5	7010.9	5857.2	4845.5	4220.8	3911.9	3791.2	3730.9	3716.7	3709.5
12.5°	8626.1	7955.2	6581.4	5076.3	4121.4	3745.1	3652.8	3642.1	3666.9	3674.1	3688.2
15°	8661.6	7841.6	6063.1	4377.0	3670.5	3532.1	3571.1	3613.7	3631.5	3677.6	3642.1
17.5°	8729.0	7696.0	5424.2	3823.2	3418.5	3443.3	3510.8	3560.5	3588.9	3620.8	3574.7
20°	8764.5	7564.7	4824.2	3493.0	3329.7	3375.9	3468.2	3507.2	3542.8	3556.9	3503.7
22.5°	8732.6	7294.9	4295.3	3226.8	3244.5	3304.9	3386.6	3429.1	3407.9	3351.1	3319.1
25°	8647.4	6915.1	3745.1	3056.4	3123.9	3230.3	3294.2	3262.3	3223.2	3191.3	3180.6
27.5°	8643.9	6450.0	3347.5	2900.2	3020.9	3166.5	3145.2	3116.7	3134.5	3109.7	3081.3
30°	8661.6	5999.2	3020.9	2811.4	2946.4	3017.4	3042.2	3013.8	3035.1	2988.9	3003.2
32.5°	8569.3	5559.1	2807.9	2708.6	2857.6	2854.0	2935.7	2957.0	2907.3	2811.4	2825.7
35°	8608.4	5204.1	2626.9	2662.4	2758.2	2758.2	2822.1	2797.3	2666.0	2609.1	2623.4
37.5°	8878.1	4856.2	2538.1	2598.5	2662.4	2690.8	2669.5	2563.0	2531.0	2531.0	2538.1
40°	9133.7	4558.0	2484.9	2584.3	2573.6	2591.4	2435.2	2445.9	2445.9	2449.4	2431.6
42.5°	9360.9	4355.7	2442.3	2499.1	2516.8	2424.6	2328.7	2318.1	2342.9	2339.4	2325.1
45°	9442.6	4188.8	2382.0	2403.3	2417.4	2264.8	2218.6	2197.3	2225.8	2236.4	2250.6
47.5°	9130.2	4050.4	2314.5	2271.9	2243.5	2144.1	2083.7	2044.7	2080.2	2140.6	2154.7
50°	8729.0	3869.4	2208.0	2126.3	2066.0	2023.4	1980.8	1941.8	1966.6	2009.2	1998.5
52.5°	8136.2	3585.4	2073.1	1987.9	1885.0	1895.6	1856.6	1835.3	1849.4	1849.4	1838.8
55°	7291.4	2946.4	1845.9	1785.6	1700.4	1728.8	1735.8	1707.5	1679.1	1703.9	1682.6
57.5°	4976.9	2080.2	1647.1	1647.1	1561.9	1601.0	1597.4	1530.0	1462.6	1469.6	1455.4
60°	2878.9	1657.8	1519.3	1505.2	1416.4	1448.3	1455.4	1409.3	1306.4	1313.4	1299.2
62.5°	1636.5	1416.4	1327.7	1306.4	1288.6	1317.0	1317.0	1256.6	1167.9	1175.0	1160.8
65°	1391.5	1313.4	1185.6	1182.1	1175.0	1182.1	1153.7	1089.8	1011.7	979.8	983.3
67.5°	1263.8	1214.0	1089.8	1057.8	1036.5	1033.0	979.8	919.4	883.9	855.5	852.0
70°	1107.6	1068.5	976.2	933.6	912.3	862.6	809.4	770.3	720.6	706.4	720.6
72.5°	876.8	873.3	837.7	791.6	745.5	706.4	660.3	607.1	560.9	550.2	525.4
75°	607.1	614.1	621.2	614.1	575.0	525.4	472.1	429.6	372.7	340.8	333.7
77.5°	397.6	408.3	418.9	404.7	379.8	333.7	298.2	244.9	202.3	177.5	173.9
80°	291.1	305.3	312.4	301.8	273.3	237.9	198.8	156.2	124.3	103.0	103.0
82.5°	223.6	237.9	244.9	227.2	198.8	170.4	142.0	110.0	85.2	67.4	63.9
85°	78.1	74.5	88.7	92.3	110.0	103.0	85.2	63.9	49.7	35.5	31.9
87.5°	21.3	21.3	24.8	24.8	21.3	17.8	17.8	17.8	14.2	10.6	10.6
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)