

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: P647483

Luminaire Tested: **GALN-SA6D-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647483
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-SA6D-835-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1200mA 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: 32411.5 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

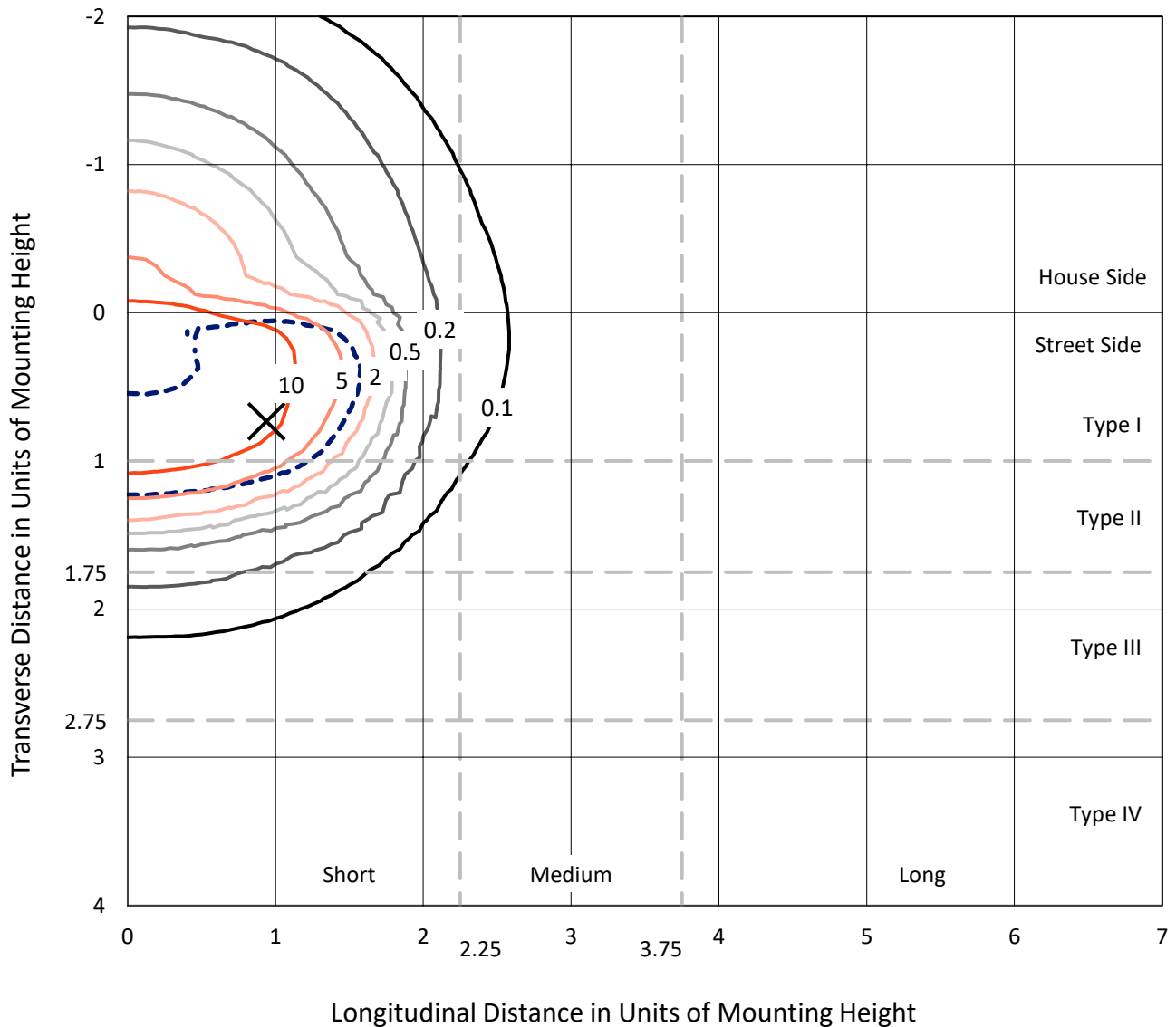
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647483
 CATALOG NUMBER: GALN-SA6D-835-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

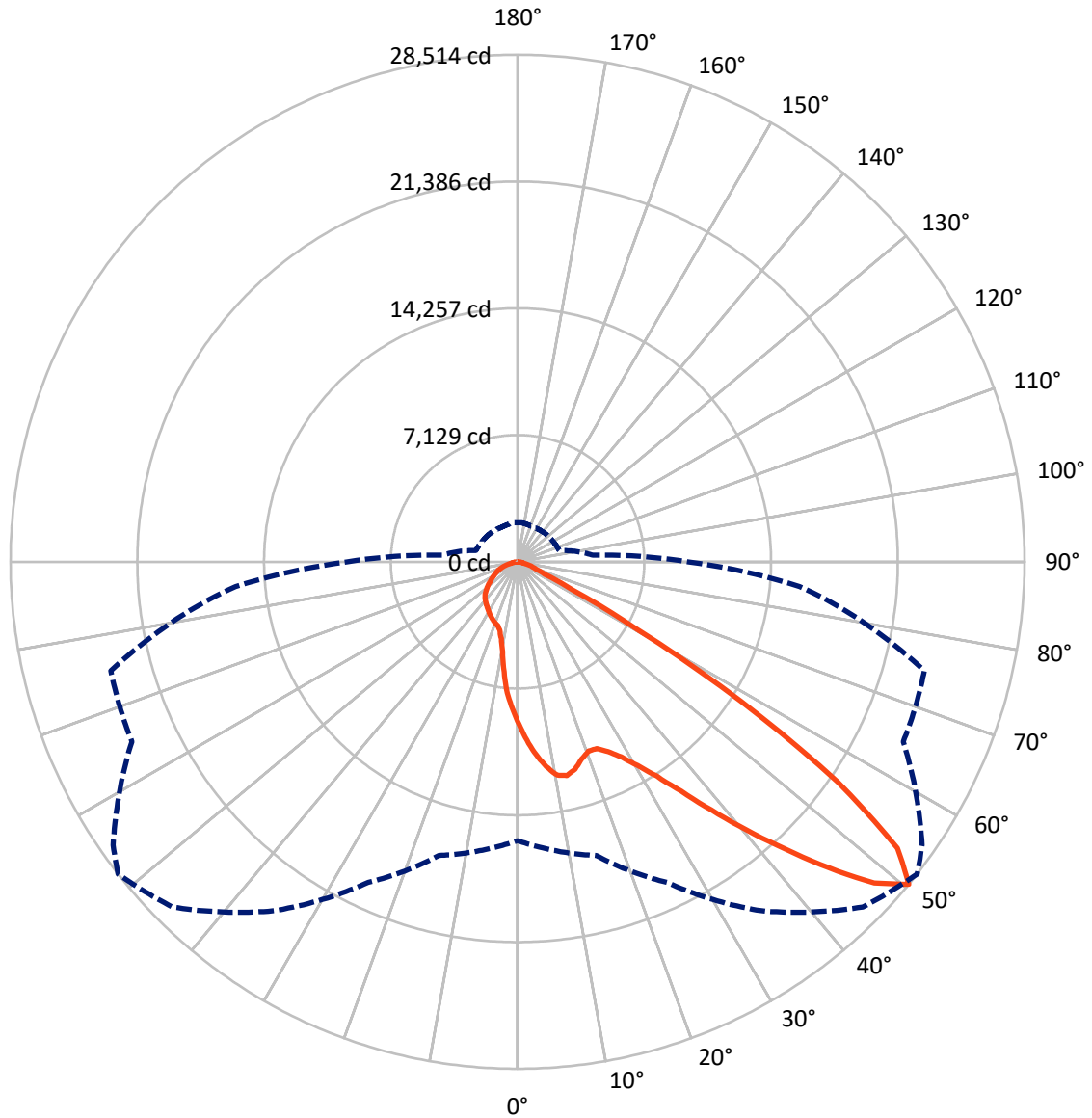
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type II - Short - N/A

REPORT NUMBER: P647483
CATALOG NUMBER: GALN-SA6D-835-U-AFL-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P647483
 CATALOG NUMBER: GALN-SA6D-835-U-AFL-GRSWH

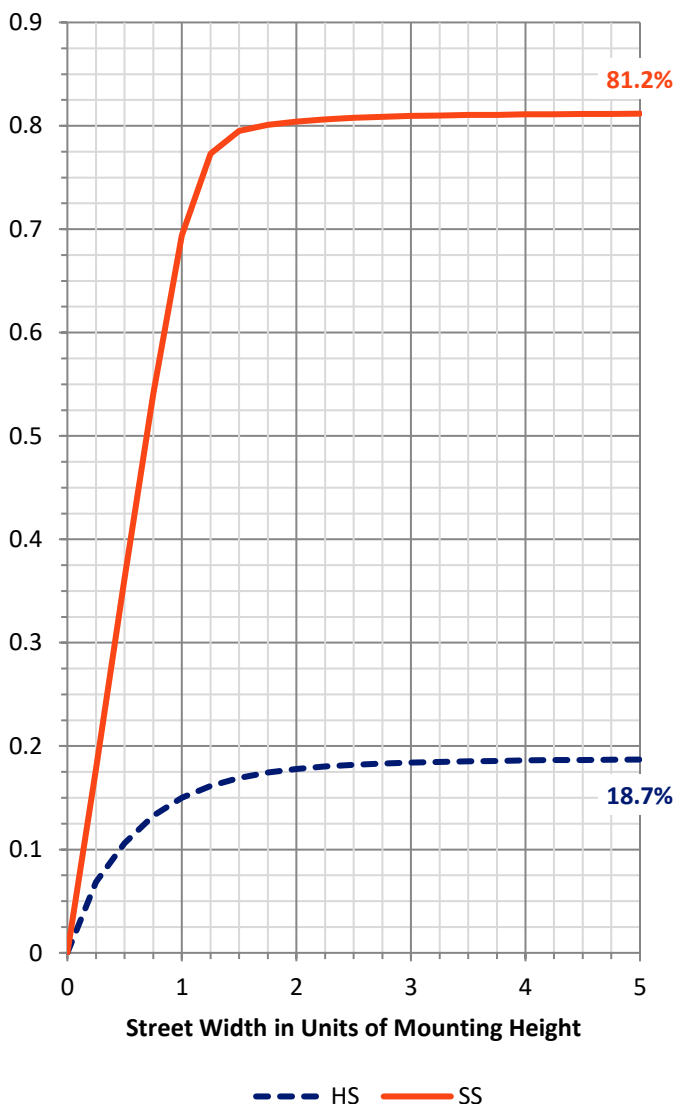
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6092.6	0.0	6092.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	26318.9	0.0	26318.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	32411.5	0.0	32411.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	842.1	2.6
10°-20°	2257.0	7.0
20°-30°	3801.8	11.7
30°-40°	6379.8	19.7
40°-50°	9759.5	30.1
50°-60°	7115.5	22.0
60°-70°	1583.5	4.9
70°-80°	571.2	1.8
80°-90°	101.1	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°	32411.5	100.0
0°-180°	32411.5	100.0

Coefficient of Utilization

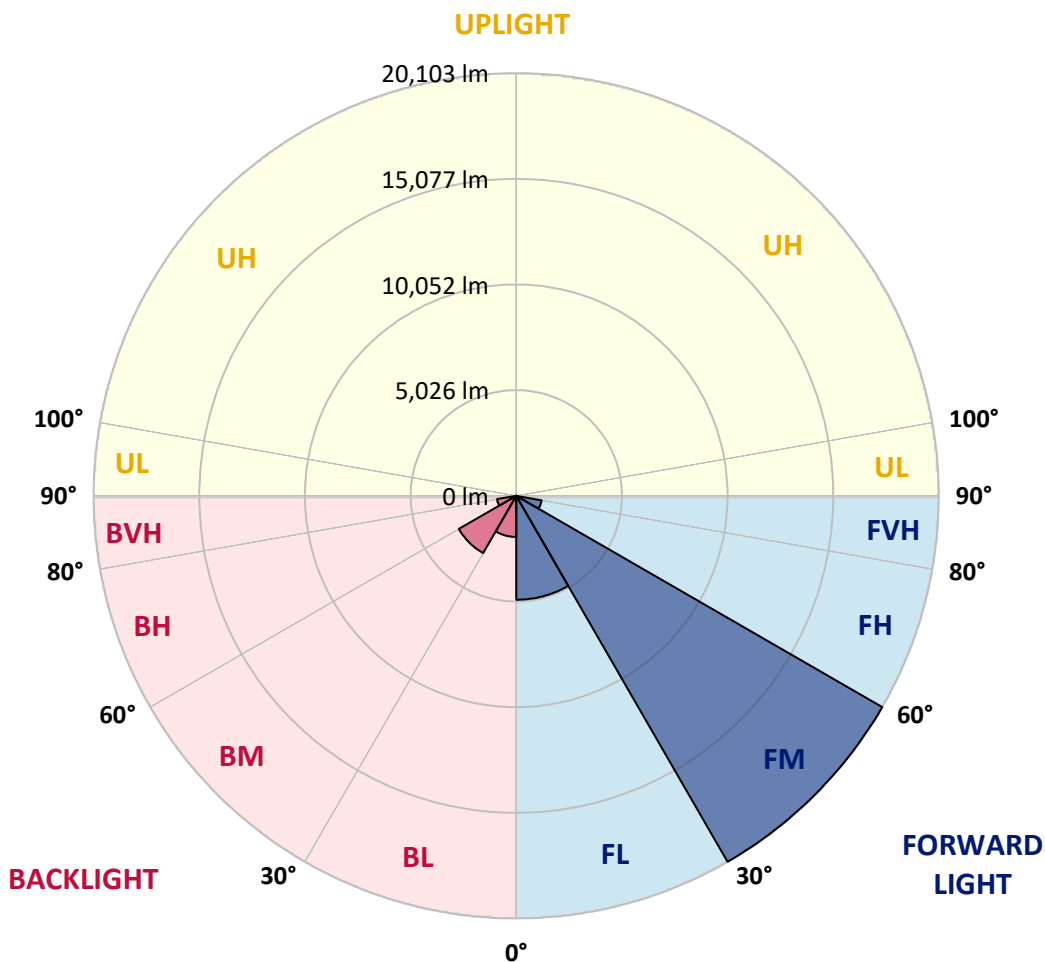


REPORT NUMBER: P647483
 CATALOG NUMBER: GALN-SA6D-835-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4943.9	15.3			
FM (30°-60°)	20103.3	62.0			
FH (60°-80°)	1226.5	3.8			G1/1800
FVH (80°-90°)	45.3	0.1			G1/100
BL (0°-30°)	1957.1	6.0	B3/2500		
BM (30°-60°)	3151.5	9.7	B3/5000		
BH (60°-80°)	928.2	2.9	B2/1000		G2/1000
BVH (80°-90°)	55.8	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: P647483

CATALOG NUMBER: GALN-SA6D-835-U-AFL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	9136.3	9136.3	9136.3	9136.3	9136.3	9136.3	9136.3	9136.3	9136.3	9136.3	9136.3
2.5°	10757.2	10550.2	10573.7	10425.3	10265.1	10218.2	10054.2	9898.0	9780.8	9530.8	9300.3
5°	11757.2	11694.7	11601.0	11483.8	11362.7	11065.8	10897.9	10702.6	10273.0	9886.2	9503.4
7.5°	11901.8	11890.0	11940.8	11940.8	11983.8	11870.5	11632.2	11495.5	11038.5	10409.7	9698.7
10°	10886.2	10921.4	11167.4	11487.7	11933.0	12241.6	12202.5	12167.4	11667.4	10808.1	9929.2
12.5°	10077.6	9999.5	10144.0	10417.4	11085.4	11831.4	12335.3	12339.2	12210.3	11444.7	10097.2
15°	9620.6	9675.3	9714.4	9843.2	10347.1	11210.4	12097.0	12358.8	12925.1	11893.9	10362.8
17.5°	9913.6	9729.9	9722.2	9753.4	10011.2	10659.6	11655.7	12104.9	13315.8	12472.0	10690.8
20°	10296.4	10292.5	10183.1	10144.0	10140.1	10718.3	11366.7	11976.0	13522.8	13222.0	11022.9
22.5°	10968.2	10968.2	10788.6	10702.6	10519.0	10991.7	11405.6	11819.7	13866.5	13737.6	11183.0
25°	12093.1	11909.6	11601.0	11390.1	11284.6	11452.5	11819.7	12190.8	14167.3	14284.4	11515.0
27.5°	13132.2	12843.1	12690.8	12327.6	12186.9	12089.2	12425.2	12800.2	14518.8	15135.9	11694.7
30°	14311.8	14261.0	13987.6	13518.9	13171.2	12991.5	13300.1	13671.2	15163.3	16007.0	12108.8
32.5°	16421.1	15960.1	15589.1	15014.9	14448.5	14065.7	14370.4	14616.5	16233.5	16917.1	12561.9
35°	18698.3	18549.9	17909.2	16874.2	16007.0	15663.3	15843.0	16026.5	17479.6	18307.7	13323.5
37.5°	20936.5	20733.4	20206.0	19335.0	18280.3	17581.2	17710.1	17924.9	18878.0	20182.6	14253.2
40°	22545.8	22295.8	22030.2	21901.3	20854.4	19897.4	19823.2	19877.9	20768.5	21940.3	15284.4
42.5°	22662.9	22971.5	23053.6	23573.1	23327.0	22541.9	22084.8	22096.6	22573.1	23678.5	16327.4
45°	22416.8	22131.7	22737.1	24155.1	24967.5	25334.7	24565.2	24467.5	23690.2	24686.3	16846.8
47.5°	19835.0	19913.1	20936.5	23178.5	25526.1	27166.7	26987.0	26662.7	24287.9	24651.1	16764.8
50°	15678.9	16151.6	17100.7	19893.5	23963.6	27455.7	28514.2	27764.2	23932.4	23682.4	15928.9
52.5°	10440.9	10636.2	11261.2	14866.4	19268.6	24541.7	26756.5	26928.4	23604.3	22413.0	14870.3
55°	4648.2	4632.6	5511.5	7765.2	12089.2	18674.9	21862.2	22909.0	22342.7	21120.0	13839.1
57.5°	1968.6	2035.0	2394.4	3355.3	5945.0	11268.9	14811.8	15729.7	17182.8	17342.9	10616.7
60°	1332.0	1339.8	1437.4	1679.6	2488.1	5292.7	7769.2	8870.7	9909.6	9839.3	5632.5
62.5°	1046.8	1074.2	1148.3	1246.1	1476.5	2402.2	3476.4	4089.6	4156.0	3495.9	2136.7
65°	894.5	898.4	972.6	1054.6	1156.2	1398.4	1675.7	1706.9	1726.5	1664.0	1570.2
67.5°	738.2	746.0	804.6	898.4	992.1	1070.3	1148.3	1187.4	1277.3	1453.1	1429.6
70°	585.9	597.7	648.4	726.5	812.4	859.3	957.0	992.1	1074.2	1210.9	1265.6
72.5°	445.3	449.2	492.2	546.8	625.0	671.8	753.9	792.9	847.6	964.8	1015.6
75°	320.3	332.0	363.2	390.6	402.3	433.5	511.7	554.7	632.7	683.6	687.5
77.5°	168.0	175.8	183.6	183.6	222.6	281.3	332.0	355.5	410.1	449.2	429.6
80°	66.4	70.3	89.8	121.1	156.2	203.1	238.3	250.0	296.8	320.3	332.0
82.5°	39.1	43.0	58.6	85.9	113.3	144.5	171.9	183.6	214.9	242.2	250.0
85°	19.5	23.4	35.2	54.7	74.2	89.8	85.9	82.1	82.1	78.1	82.1
87.5°	7.8	7.8	11.7	11.7	11.7	15.7	19.5	19.5	19.5	23.4	23.4
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: P647483
 CATALOG NUMBER: GALN-SA6D-835-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9136.3	9136.3	9136.3	9136.3	9136.3	9136.3	9136.3	9136.3	9136.3	9136.3	9136.3
2.5°	9147.9	8991.7	8847.2	8581.6	8292.5	8210.5	7874.6	7753.5	7667.6	7566.1	7534.8
5°	9194.8	8987.8	8523.0	7987.9	7562.1	7015.3	6655.9	6269.2	5988.0	5917.7	5898.2
7.5°	9292.5	8937.1	8136.3	7327.8	6456.7	5714.6	5148.1	4843.5	4574.0	4558.4	4531.0
10°	9401.9	8784.7	7714.4	6445.0	5331.8	4644.3	4304.5	4171.7	4105.3	4089.6	4081.9
12.5°	9491.7	8753.5	7241.8	5585.7	4534.9	4120.9	4019.3	4007.6	4035.0	4042.8	4058.4
15°	9530.8	8628.5	6671.6	4816.2	4038.9	3886.5	3929.5	3976.4	3995.9	4046.7	4007.6
17.5°	9605.0	8468.3	5968.4	4206.8	3761.5	3788.9	3863.1	3917.7	3949.1	3984.1	3933.4
20°	9644.1	8323.8	5308.3	3843.6	3663.9	3714.6	3816.2	3859.2	3898.2	3913.9	3855.3
22.5°	9608.9	8026.9	4726.3	3550.6	3570.2	3636.6	3726.4	3773.3	3749.8	3687.3	3652.1
25°	9515.2	7609.0	4120.9	3363.1	3437.3	3554.5	3624.8	3589.7	3546.7	3511.5	3499.9
27.5°	9511.3	7097.3	3683.4	3191.3	3324.1	3484.2	3460.8	3429.5	3449.0	3421.7	3390.5
30°	9530.8	6601.2	3324.1	3093.6	3242.0	3320.2	3347.5	3316.2	3339.7	3288.9	3304.5
32.5°	9429.2	6116.9	3089.7	2980.3	3144.4	3140.5	3230.3	3253.8	3199.0	3093.6	3109.2
35°	9472.2	5726.3	2890.4	2929.5	3035.0	3035.0	3105.3	3078.0	2933.4	2870.9	2886.6
37.5°	9769.0	5343.5	2792.8	2859.2	2929.5	2960.8	2937.3	2820.2	2785.1	2785.1	2792.8
40°	10050.3	5015.3	2734.2	2843.6	2831.9	2851.5	2679.6	2691.2	2691.2	2695.2	2675.7
42.5°	10300.3	4792.7	2687.3	2749.9	2769.4	2667.8	2562.4	2550.6	2578.0	2574.1	2558.5
45°	10390.1	4609.1	2620.9	2644.4	2660.0	2492.1	2441.3	2417.8	2449.1	2460.8	2476.5
47.5°	10046.4	4456.8	2546.8	2499.9	2468.6	2359.3	2292.9	2249.9	2288.9	2355.3	2371.0
50°	9605.0	4257.6	2429.6	2339.8	2273.4	2226.5	2179.6	2136.7	2164.0	2210.8	2199.1
52.5°	8952.7	3945.1	2281.1	2187.4	2074.1	2085.8	2042.8	2019.4	2035.0	2035.0	2023.4
55°	8023.0	3242.0	2031.2	1964.8	1871.0	1902.2	1910.1	1878.8	1847.6	1874.9	1851.5
57.5°	5476.3	2288.9	1812.4	1812.4	1718.7	1761.6	1757.8	1683.5	1609.3	1617.1	1601.5
60°	3167.8	1824.2	1671.8	1656.2	1558.5	1593.6	1601.5	1550.7	1437.4	1445.3	1429.6
62.5°	1800.7	1558.5	1460.8	1437.4	1417.9	1449.2	1449.2	1382.8	1285.1	1292.9	1277.3
65°	1531.2	1445.3	1304.6	1300.7	1292.9	1300.7	1269.5	1199.2	1113.2	1078.0	1081.9
67.5°	1390.5	1335.9	1199.2	1164.0	1140.6	1136.7	1078.0	1011.6	972.6	941.3	937.5
70°	1218.7	1175.8	1074.2	1027.3	1003.9	949.2	890.6	847.6	792.9	777.3	792.9
72.5°	964.8	960.9	921.8	871.1	820.3	777.3	726.5	667.9	617.2	605.4	578.1
75°	667.9	675.7	683.6	675.7	632.7	578.1	519.5	472.6	410.1	375.0	367.1
77.5°	437.5	449.2	461.0	445.3	418.0	367.1	328.1	269.5	222.6	195.3	191.4
80°	320.3	335.9	343.7	332.0	300.8	261.7	218.8	171.9	136.7	113.3	113.3
82.5°	246.1	261.7	269.5	250.0	218.8	187.5	156.2	121.1	93.7	74.2	70.3
85°	85.9	82.1	97.6	101.6	121.1	113.3	93.7	70.3	54.7	39.1	35.2
87.5°	23.4	23.4	27.3	27.3	23.4	19.5	19.5	19.5	15.7	11.7	11.7
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)