

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: P652322

Luminaire Tested: **GALN-SA4B-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-840-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14122 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

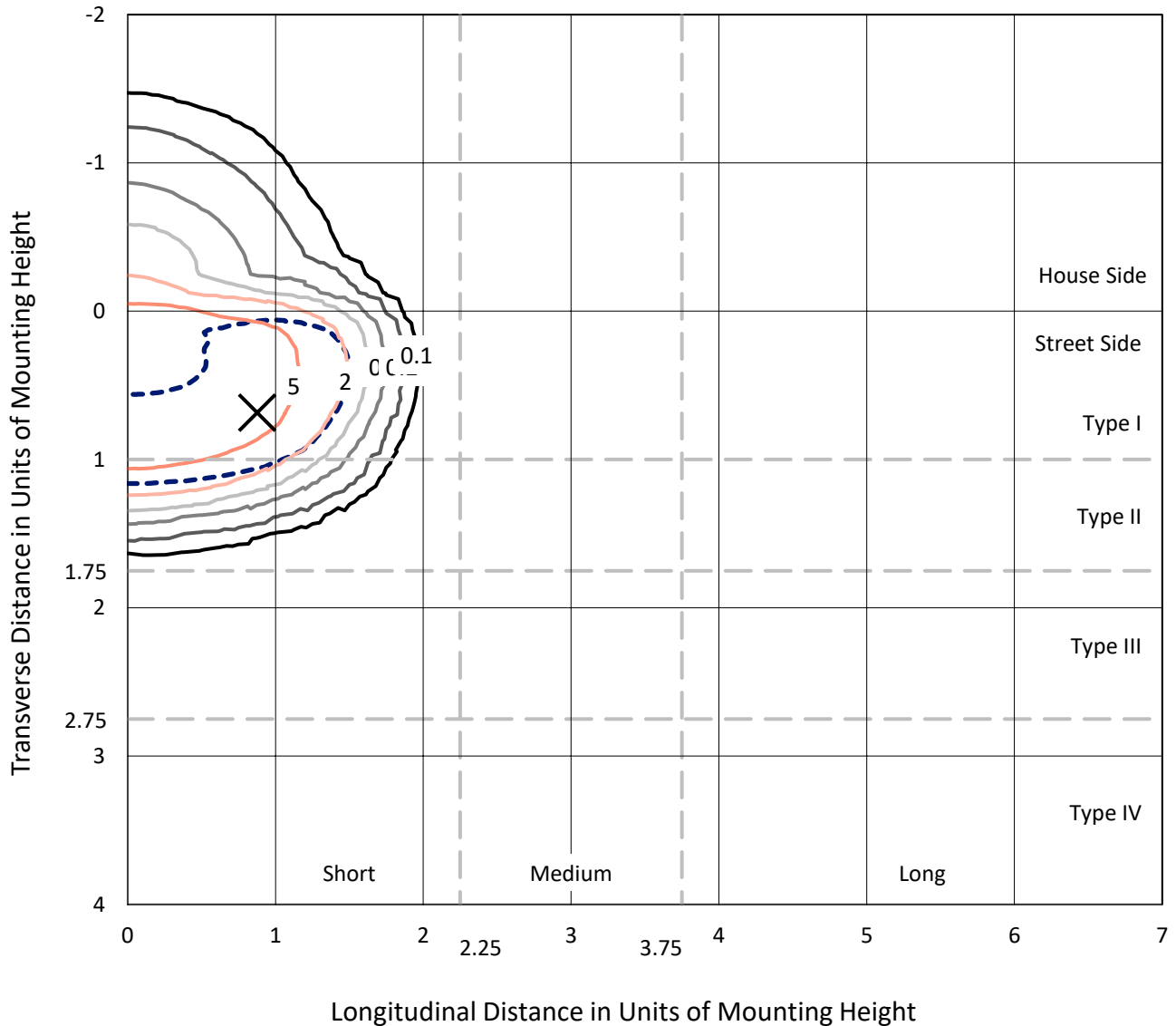
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652322
 CATALOG NUMBER: GALN-SA4B-840-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

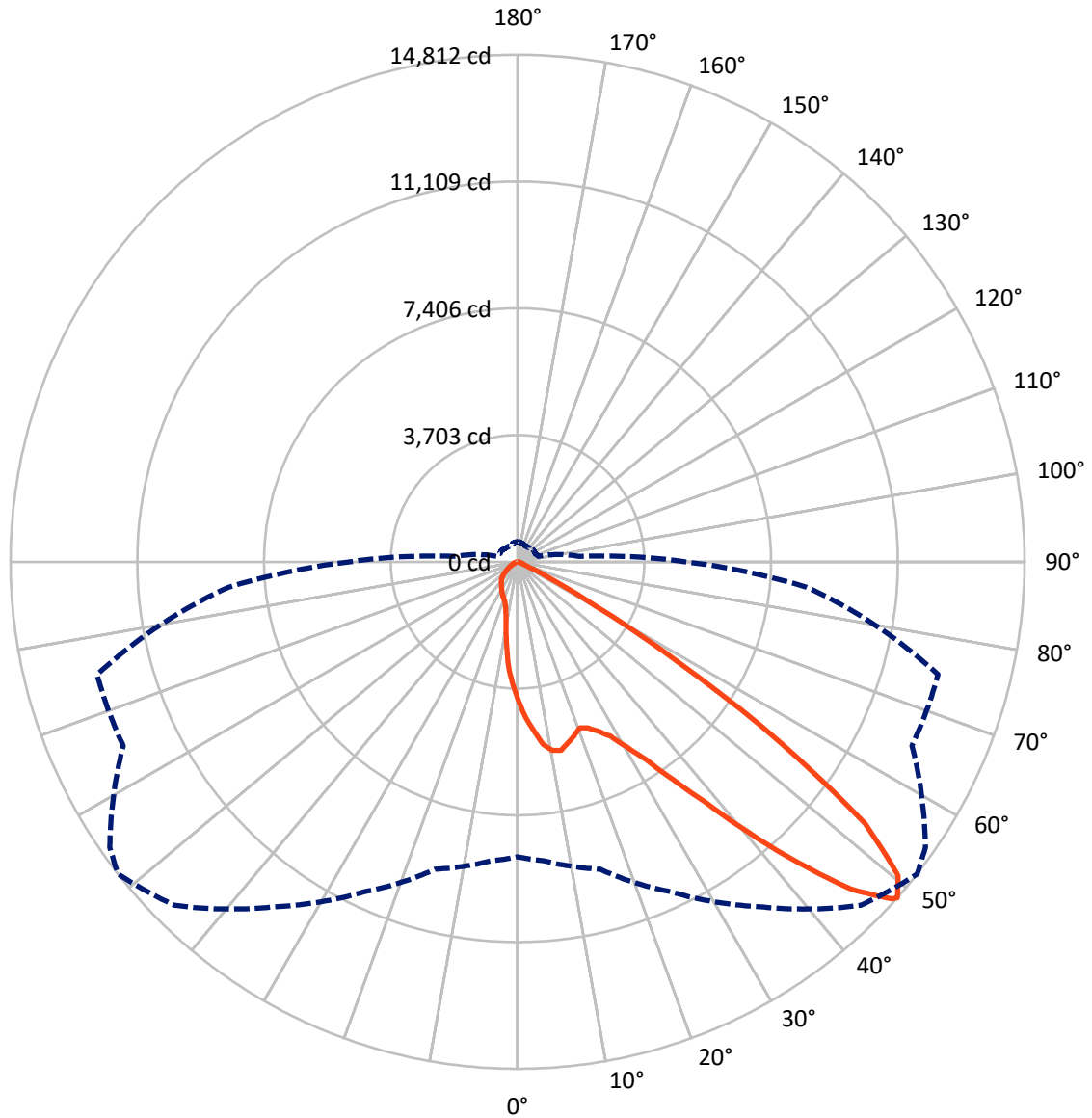
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

REPORT NUMBER: P652322
CATALOG NUMBER: GALN-SA4B-840-U-AFL-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

REPORT NUMBER: P652322
 CATALOG NUMBER: GALN-SA4B-840-U-AFL-GRSBK

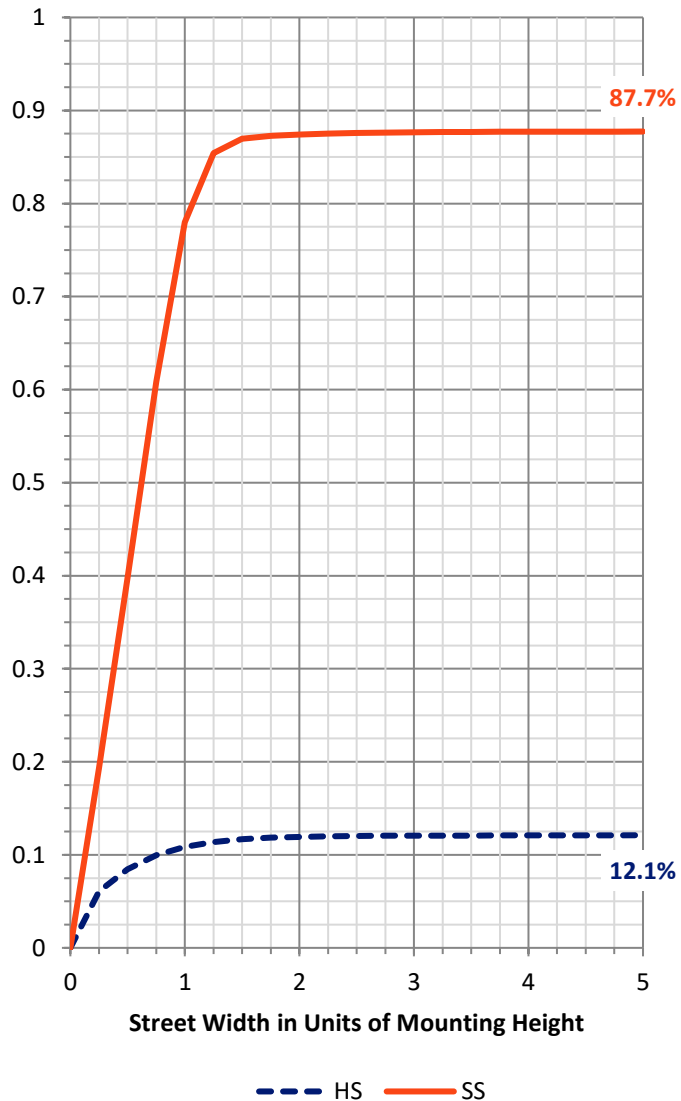
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1719.5	0.0	1719.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	12402.6	0.0	12402.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	14122.0	0.0	14122.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.3	2.6
10°-20°	975.5	6.9
20°-30°	1665.6	11.8
30°-40°	3067.2	21.7
40°-50°	4763.3	33.7
50°-60°	2866.7	20.3
60°-70°	331.6	2.3
70°-80°	64.2	0.5
80°-90°	14.8	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°	14122.0	100.0
0°-180°	14122.0	100.0

Coefficient of Utilization

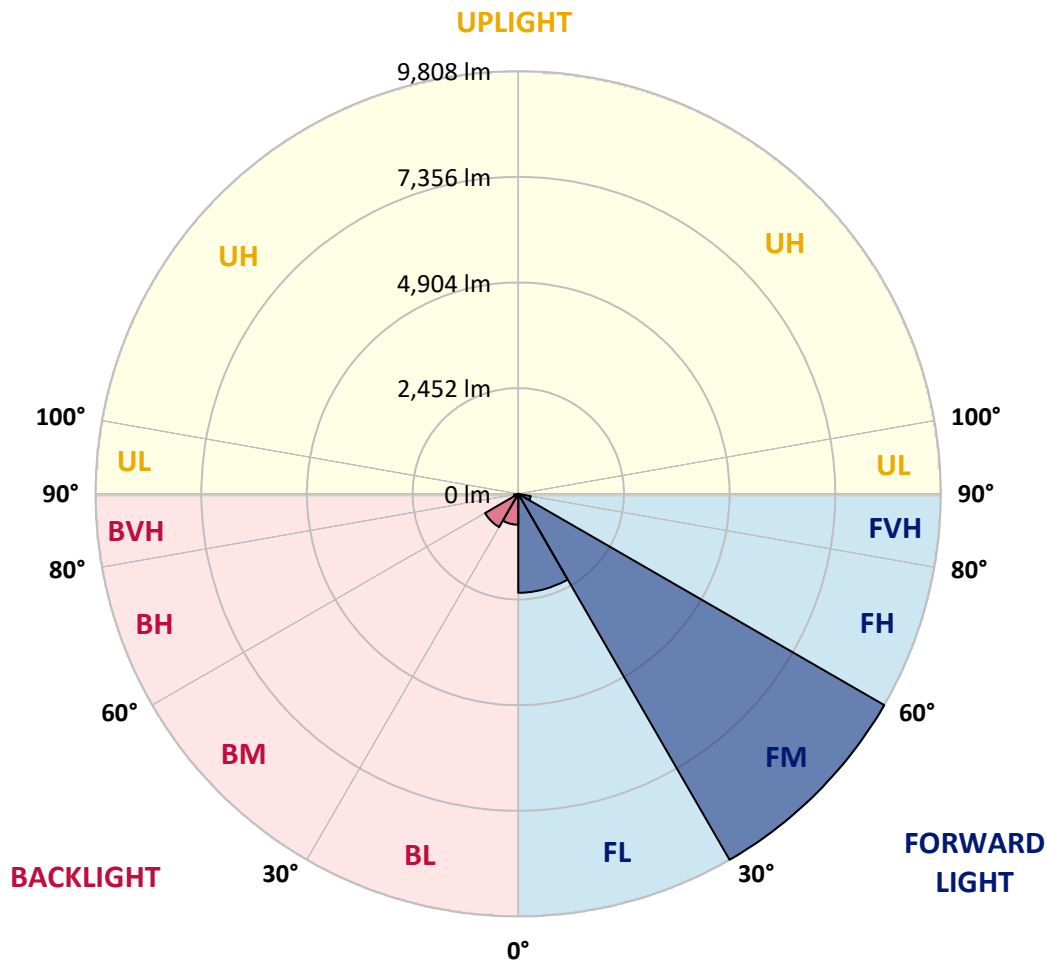


REPORT NUMBER: P652322
 CATALOG NUMBER: GALN-SA4B-840-U-AFL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2296.1	16.3			
FM (30°-60°)	9807.5	69.4			
FH (60°-80°)	292.0	2.1			G0/660
FVH (80°-90°)	7.1	0.0			G0/10
BL (0°-30°)	718.3	5.1	B2/1000		
BM (30°-60°)	889.6	6.3	B1/1000		
BH (60°-80°)	103.8	0.7	B0/110		G0/110
BVH (80°-90°)	7.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
 Type II Short





REPORT NUMBER: P652322

CATALOG NUMBER: GALN-SA4B-840-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4078.3	4078.3	4078.3	4078.3	4078.3	4078.3	4078.3	4078.3	4078.3	4078.3	4078.3
2.5°	4942.9	4829.6	4840.0	4765.8	4722.6	4652.6	4557.9	4539.4	4436.4	4296.4	4154.4
5°	5387.5	5360.8	5395.8	5288.7	5292.8	5177.5	4955.2	4959.3	4722.6	4494.1	4273.8
7.5°	5416.4	5354.6	5389.6	5484.3	5539.8	5519.3	5393.7	5284.6	5060.2	4724.7	4403.5
10°	4850.2	4967.5	5004.6	5161.0	5383.4	5618.1	5603.7	5609.9	5422.5	4984.0	4514.7
12.5°	4510.5	4432.3	4557.9	4652.6	4988.1	5443.1	5651.0	5696.3	5710.7	5235.2	4625.8
15°	4356.1	4356.1	4376.7	4403.5	4646.4	5066.4	5490.5	5622.3	5933.1	5564.6	4800.8
17.5°	4452.9	4448.8	4477.6	4422.0	4512.6	4835.8	5342.2	5492.5	6182.2	5887.8	4938.8
20°	4747.3	4761.7	4743.2	4582.6	4588.7	4831.7	5177.5	5414.3	6351.0	6167.7	5121.9
22.5°	5156.9	5165.2	5060.2	4885.2	4833.7	4953.2	5272.2	5453.4	6486.9	6503.4	5177.5
25°	5630.5	5597.5	5576.9	5329.9	5173.4	5276.3	5486.3	5591.3	6571.2	6791.6	5336.1
27.5°	6287.1	6221.3	6095.7	5875.5	5760.2	5614.0	5764.3	5937.2	6812.1	7195.0	5509.0
30°	7256.8	7199.1	6954.1	6670.1	6367.5	6223.3	6270.7	6365.4	7246.5	7662.4	5737.5
32.5°	8716.4	8594.9	8240.9	7699.4	7287.7	6890.4	6878.0	6978.9	7635.6	8308.7	6009.3
35°	10324.2	10287.2	9766.3	9208.4	8411.7	7798.3	7808.5	7862.1	8380.8	9157.0	6365.4
37.5°	11392.7	11596.5	11265.0	10666.0	9996.9	9119.9	8897.5	8916.1	9404.0	10161.6	7007.7
40°	12218.2	12045.2	12084.4	11944.4	11487.4	10890.4	10398.3	10301.6	10587.7	11273.3	7645.9
42.5°	11857.9	11866.2	12107.0	12438.5	12551.7	12508.4	12006.1	11822.9	11600.6	12183.2	8253.2
45°	10840.9	11053.0	11365.9	12242.9	13012.9	13735.5	13636.6	13332.0	12300.6	12903.7	8603.2
47.5°	9218.7	9210.5	9723.1	10863.6	12574.4	14266.6	14715.3	14501.3	12796.7	12823.4	8531.1
48°	8619.7	8767.8	9296.9	10639.2	12296.4	14188.3	14812.1	14542.4	12712.3	12716.4	8469.4
50°	6371.6	6344.8	7003.6	8650.5	10983.0	13332.0	14404.5	14614.5	12710.2	12175.0	8037.0
52.5°	3365.9	3481.2	3960.9	5439.0	7765.3	10911.0	12706.1	13033.4	12261.4	11289.8	7415.3
55°	1430.8	1292.9	1661.3	2456.0	4368.5	7289.7	9321.6	10050.5	10367.4	9990.7	6486.9
57.5°	510.6	557.9	642.3	924.3	1836.3	3989.7	5558.4	6124.5	7182.7	7330.9	4420.0
60°	327.3	333.5	360.3	424.1	689.6	1537.9	2637.1	3088.0	3567.7	3683.0	2062.8
62.5°	253.2	255.2	267.6	278.0	327.3	597.0	990.2	1173.4	1218.7	1047.9	541.4
65°	212.0	214.1	218.2	218.2	232.6	280.0	345.8	380.9	370.5	366.4	306.7
67.5°	162.6	166.8	175.0	175.0	183.3	170.9	191.5	203.8	230.6	280.0	261.5
70°	127.7	129.7	135.9	140.0	140.0	123.5	137.9	150.3	168.8	207.9	205.9
72.5°	98.8	102.9	107.1	107.1	100.8	84.4	98.8	109.1	121.4	144.1	140.0
75°	76.2	76.2	78.2	63.8	49.4	43.2	59.7	72.1	90.6	94.7	78.2
77.5°	20.6	22.6	20.6	18.5	20.6	30.9	39.1	45.3	57.6	57.6	51.5
80°	0.0	2.0	6.1	12.4	20.6	28.8	35.0	39.1	45.3	49.4	47.3
82.5°	0.0	2.0	6.1	12.4	18.5	22.6	30.9	33.0	37.1	43.2	43.2
85°	0.0	2.0	4.1	8.2	12.4	14.4	14.4	12.4	12.4	10.3	8.2
87.5°	0.0	0.0	2.0	4.1	4.1	6.1	6.1	6.1	6.1	6.1	6.1
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: P652322

CATALOG NUMBER: GALN-SA4B-840-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4078.3	4078.3	4078.3	4078.3	4078.3	4078.3	4078.3	4078.3	4078.3	4078.3	4078.3
2.5°	4098.8	4034.9	3938.2	3785.9	3639.8	3545.0	3454.4	3353.6	3298.0	3293.9	3263.0
5°	4148.2	4004.1	3773.6	3512.1	3232.1	2991.3	2748.3	2589.8	2447.7	2369.5	2355.1
7.5°	4175.0	3987.6	3615.0	3176.5	2698.9	2305.7	2034.0	1834.3	1756.0	1698.4	1696.4
10°	4230.6	3958.8	3378.3	2731.8	2141.0	1743.7	1556.4	1465.8	1422.6	1406.1	1381.3
12.5°	4271.8	3905.3	3135.3	2274.8	1692.3	1445.2	1362.8	1342.2	1344.3	1352.6	1342.2
15°	4329.4	3857.9	2808.0	1867.2	1420.4	1301.1	1301.1	1305.2	1334.0	1338.1	1336.1
17.5°	4325.3	3765.3	2470.4	1537.9	1255.8	1239.3	1245.5	1284.6	1303.1	1309.4	1294.9
20°	4374.6	3678.9	2122.5	1313.4	1163.2	1187.8	1229.0	1239.3	1262.0	1266.0	1249.6
22.5°	4360.2	3462.6	1799.2	1136.4	1093.1	1140.5	1181.7	1194.1	1187.8	1175.5	1173.4
25°	4333.5	3277.4	1502.9	1019.0	1041.7	1093.1	1132.2	1109.6	1097.3	1099.4	1101.4
27.5°	4286.2	3042.7	1257.9	936.7	971.7	1047.9	1045.8	1037.5	1049.9	1039.6	1049.9
30°	4277.9	2808.0	1056.1	862.6	920.2	975.8	979.9	994.3	1008.8	990.2	1008.8
32.5°	4290.3	2550.7	912.0	817.3	889.4	891.4	936.7	951.1	940.8	899.6	903.7
35°	4385.0	2353.0	807.0	792.6	839.9	842.0	885.2	866.7	821.4	796.7	811.1
37.5°	4584.6	2188.4	757.6	769.9	774.1	800.8	802.9	765.8	769.9	767.9	776.2
40°	4840.0	2062.8	722.6	749.3	745.2	763.8	689.6	710.2	728.7	734.9	739.1
42.5°	5014.9	1972.2	700.0	716.4	708.2	675.2	634.0	654.6	669.1	691.7	695.8
45°	5093.2	1900.2	673.2	658.8	658.8	599.0	582.6	586.7	619.6	644.4	640.3
47.5°	4965.5	1830.2	625.9	582.6	597.0	547.6	529.1	529.1	564.1	594.9	588.8
48°	4916.1	1801.3	627.9	566.2	576.4	539.3	520.8	516.7	555.8	584.7	584.7
50°	4671.1	1694.3	574.4	520.8	500.2	496.1	483.8	487.9	512.6	539.3	539.3
52.5°	4193.5	1463.7	485.8	446.7	409.7	434.4	440.5	432.4	444.6	469.4	467.3
55°	3499.7	1124.0	389.0	370.5	341.7	368.5	380.9	370.5	358.2	376.8	376.8
57.5°	2241.9	605.3	310.8	315.0	286.2	312.9	323.2	298.5	275.8	290.3	288.2
60°	1010.8	362.3	255.2	249.1	230.6	261.5	278.0	249.1	218.2	228.5	238.8
62.5°	378.8	257.3	193.5	189.4	185.3	214.1	222.4	199.7	168.8	175.0	177.0
65°	278.0	226.5	154.4	140.0	148.2	168.8	164.7	142.0	121.4	121.4	125.6
67.5°	236.7	197.6	125.6	109.1	109.1	111.2	102.9	90.6	84.4	88.6	92.7
70°	185.3	156.4	98.8	84.4	76.2	68.0	59.7	57.6	51.5	57.6	55.6
72.5°	119.4	105.0	76.2	63.8	57.6	47.3	39.1	37.1	30.9	28.8	28.8
75°	63.8	63.8	59.7	51.5	45.3	37.1	30.9	24.7	16.5	12.4	12.4
77.5°	45.3	49.4	53.5	49.4	41.2	30.9	24.7	16.5	8.2	4.1	4.1
80°	43.2	49.4	53.5	47.3	41.2	30.9	22.6	12.4	6.1	2.0	2.0
82.5°	39.1	45.3	49.4	43.2	37.1	26.7	20.6	12.4	6.1	2.0	2.0
85°	8.2	10.3	12.4	12.4	14.4	18.5	14.4	10.3	4.1	2.0	2.0
87.5°	6.1	6.1	6.1	6.1	6.1	6.1	4.1	4.1	2.0	2.0	2.0
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)