

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: P647138

Luminaire Tested: **GALN-SA8C-835-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-835-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44080.6 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

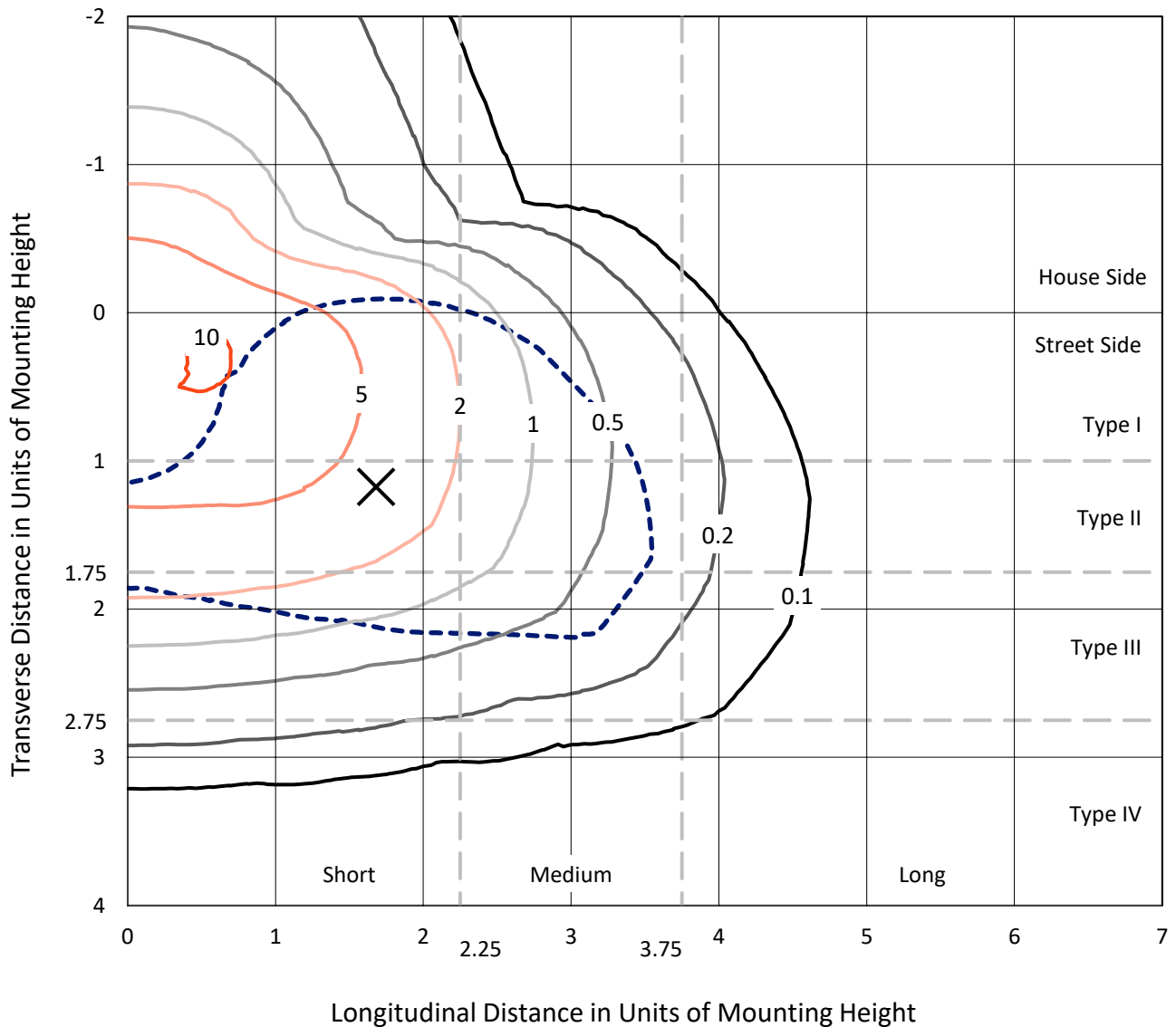
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647138
 CATALOG NUMBER: GALN-SA8C-835-U-T3

Iso-Footcandle Lines of Horizontal Illumination

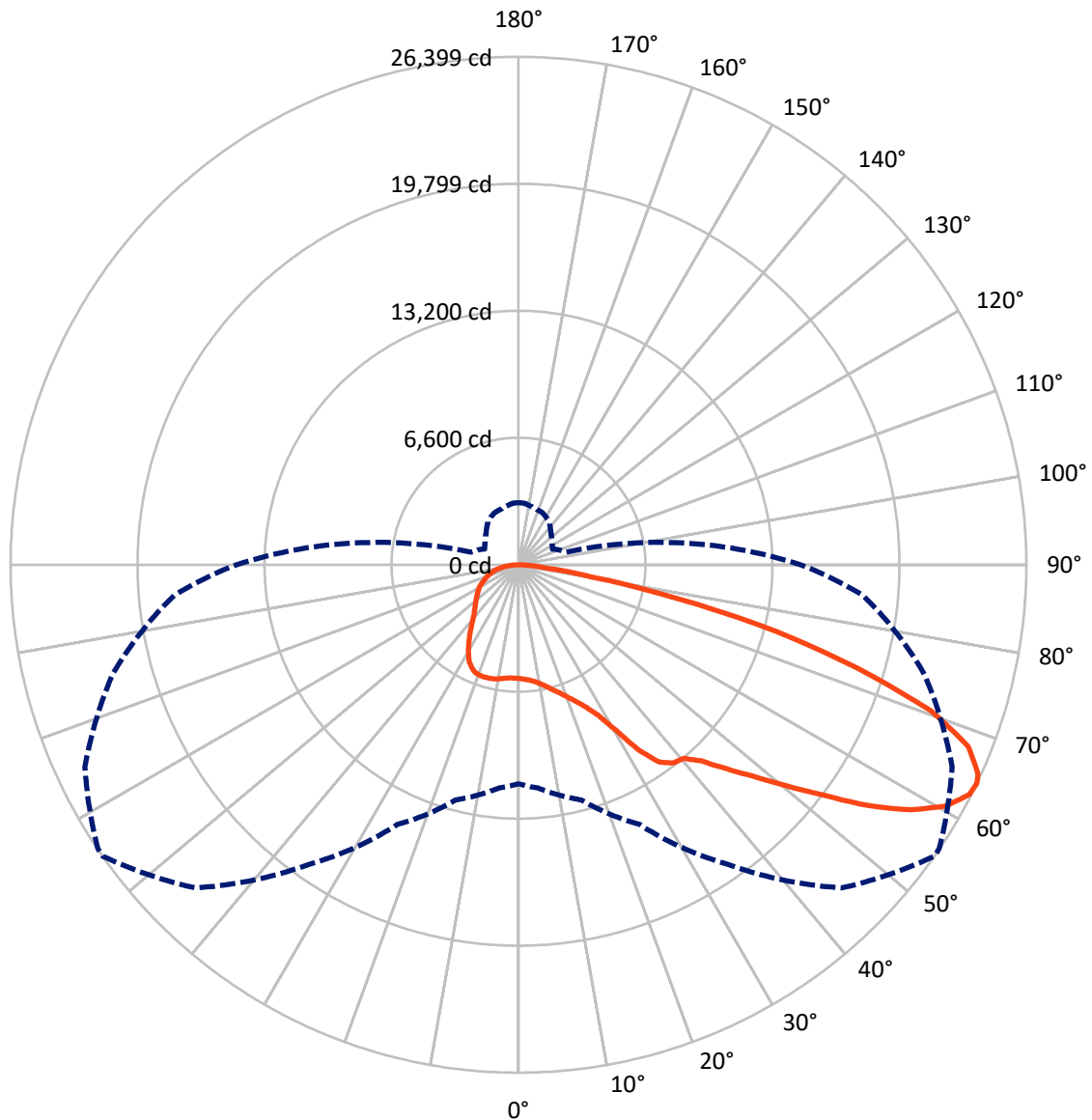
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type III - Short - N/A

REPORT NUMBER: P647138
CATALOG NUMBER: GALN-SA8C-835-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P647138
 CATALOG NUMBER: GALN-SA8C-835-U-T3

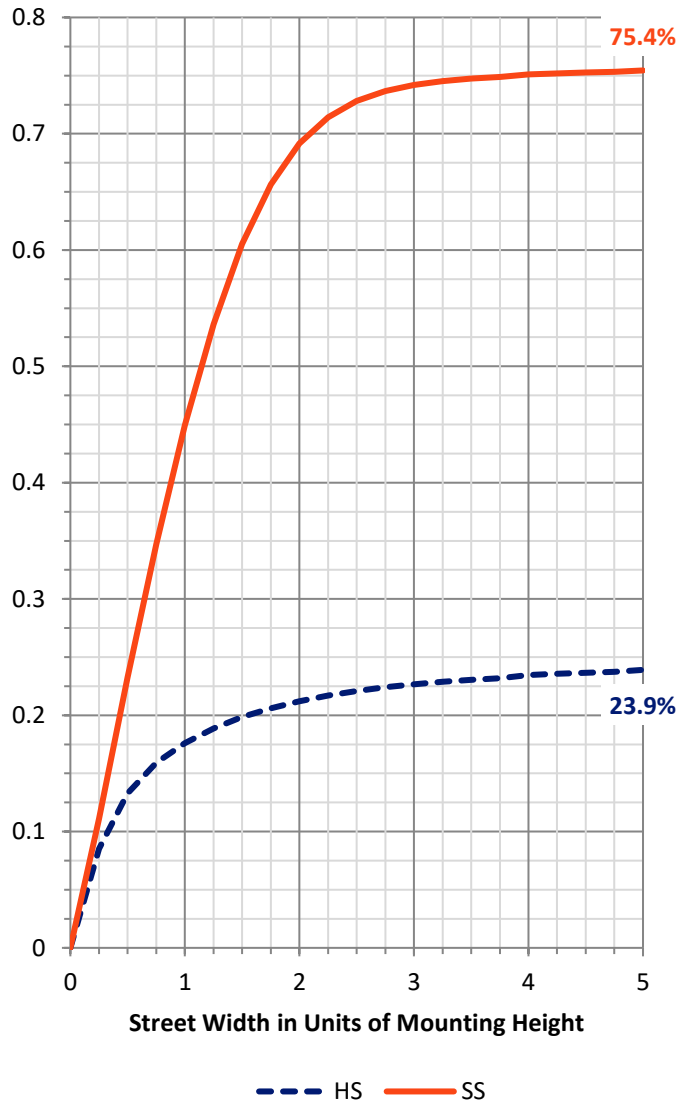
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10708.0	0.0	10708.0
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	33372.5	0.0	33372.5
	% Fixture	75.7	0.0	75.7
Total	Lumens	44080.6	0.0	44080.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.3	1.3
10°-20°	1815.3	4.1
20°-30°	3231.6	7.3
30°-40°	4972.2	11.3
40°-50°	7048.5	16.0
50°-60°	10202.5	23.1
60°-70°	10558.5	24.0
70°-80°	4944.6	11.2
80°-90°	732.0	1.7
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°	44080.6	100.0
0°-180°	44080.6	100.0

Coefficient of Utilization

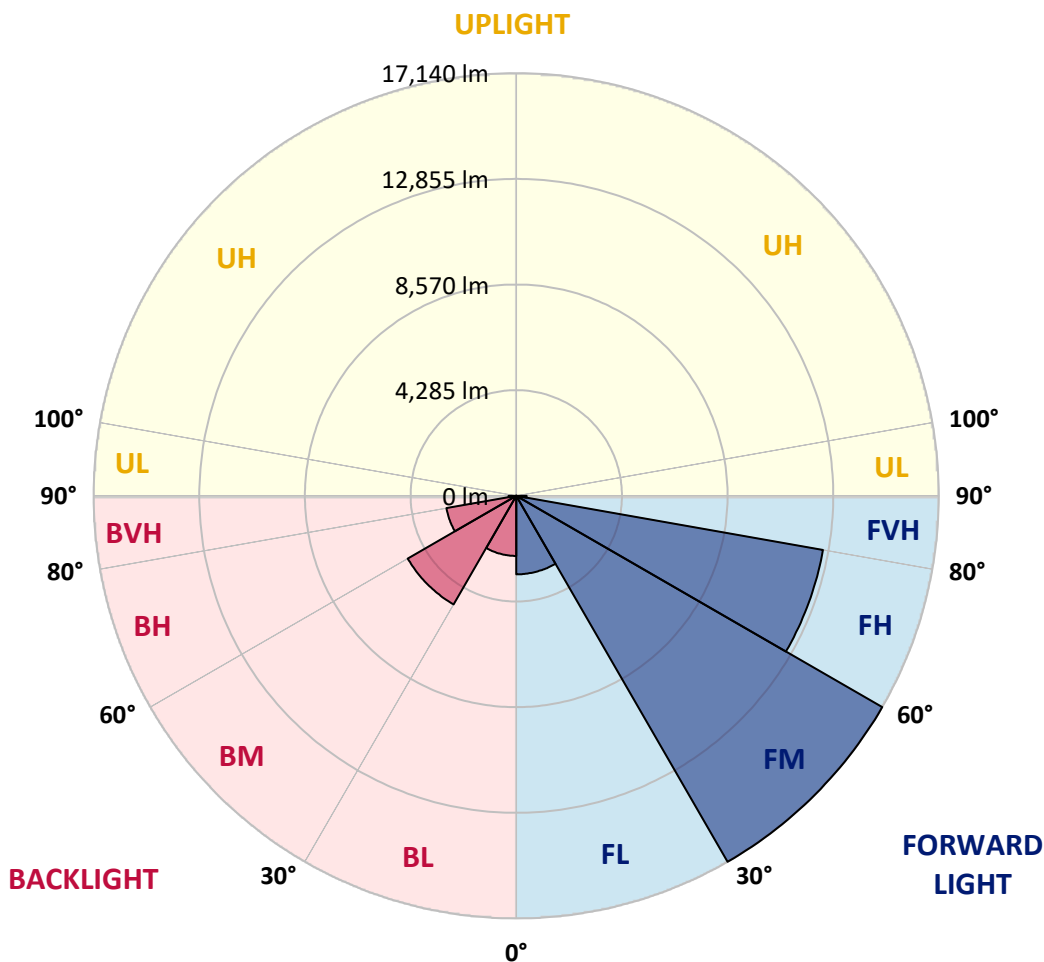


REPORT NUMBER: P647138
 CATALOG NUMBER: GALN-SA8C-835-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3183.3	7.2			
FM	(30°-60°)	17139.7	38.9			
FH	(60°-80°)	12630.4	28.7			G5
FVH	(80°-90°)	419.1	1.0			G3/500
BL	(0°-30°)	2438.9	5.5	B3/2500		
BM	(30°-60°)	5083.5	11.5	B4/8500		
BH	(60°-80°)	2872.8	6.5	B4/5000		G4/5000
BVH	(80°-90°)	312.9	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short





REPORT NUMBER: P647138

CATALOG NUMBER: GALN-SA8C-835-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5914.3	5914.3	5914.3	5914.3	5914.3	5914.3	5914.3	5914.3	5914.3	5914.3	5914.3
2.5°	5980.6	5978.1	5985.6	5978.1	5983.1	5965.9	5958.5	5963.4	5956.0	5943.8	5921.7
5°	6054.3	6051.9	6054.3	6044.5	6049.5	6039.6	6022.4	6027.3	6015.0	5988.0	5956.0
7.5°	6179.7	6169.8	6169.8	6167.4	6157.5	6142.8	6130.5	6125.6	6113.3	6078.9	6029.7
10°	6341.8	6341.8	6344.3	6324.6	6336.9	6309.9	6297.6	6295.2	6253.4	6209.1	6140.4
12.5°	6555.6	6567.9	6560.5	6550.7	6545.7	6535.9	6494.1	6504.0	6457.3	6381.1	6297.6
15°	6820.9	6840.6	6828.3	6823.4	6811.2	6774.3	6757.1	6749.7	6688.3	6577.7	6467.1
17.5°	7172.4	7147.8	7137.9	7125.6	7074.0	7047.0	7017.6	7012.6	6958.5	6828.3	6656.4
20°	7479.5	7513.8	7494.2	7482.0	7430.4	7378.8	7356.6	7349.2	7302.6	7160.1	6884.8
22.5°	7845.6	7852.9	7860.3	7830.9	7806.3	7767.0	7727.7	7715.4	7698.1	7550.7	7214.1
25°	8236.2	8265.7	8241.2	8211.7	8182.2	8179.8	8216.6	8211.7	8204.3	8061.8	7651.5
27.5°	8872.6	8899.7	8907.0	8875.1	8762.1	8771.9	8855.4	8882.5	8995.5	8759.7	8214.1
30°	9231.4	9258.4	9319.8	9440.2	9619.6	9776.9	9978.3	10039.8	10147.9	9703.2	8882.5
32.5°	9452.5	9462.3	9573.0	9796.5	10334.7	10921.9	11469.9	11491.9	11560.8	10936.6	9494.3
35°	9801.4	9808.8	9897.3	10143.0	10774.5	11752.4	12600.1	12627.1	12570.6	11319.9	9779.4
37.5°	10231.5	10251.1	10307.6	10511.5	11265.9	12447.7	13069.4	13049.7	12548.5	11624.7	10283.1
40°	10858.0	10858.0	10791.6	11066.8	11784.3	12845.8	13234.0	13199.7	13066.9	12506.7	11049.6
42.5°	11410.8	11401.0	11558.3	11745.0	12433.0	13460.1	13924.5	13981.0	14199.7	13614.9	11922.0
45°	12130.8	12175.0	12263.5	12602.5	13536.3	14509.3	15108.8	15162.9	15472.5	14919.6	12941.7
47.5°	12858.1	12872.8	13150.5	13602.6	14902.4	15931.9	16423.3	16511.8	16794.4	16445.5	14040.0
50°	13374.1	13514.1	13958.9	14671.5	16310.4	17666.7	18050.0	18155.7	18654.4	18106.5	15320.1
52.5°	13919.5	14057.2	14600.2	15686.2	17927.1	19440.7	19912.5	19983.7	20502.2	19787.2	16629.7
55°	14386.5	14514.2	15130.9	16585.5	19214.7	21251.6	22106.7	22023.1	22271.3	21082.0	17639.7
57.5°	14462.6	14565.8	15342.3	17160.5	20182.8	22804.5	24030.6	24079.8	23792.2	22050.1	18472.6
60°	13872.9	14084.2	14976.1	17099.1	20617.6	23885.6	25465.6	25500.0	24684.2	22546.5	18804.3
62.5°	12828.6	12806.5	13885.2	16111.3	20008.3	24131.4	26310.8	26274.0	25033.1	22308.1	18482.4
64°	11386.3	11651.7	12659.1	14897.5	19025.5	23752.9	26399.2	26379.6	24866.0	21811.8	17934.5
65°	10506.6	10491.9	11487.0	13904.8	18047.5	23182.9	26242.0	26215.0	24517.1	21367.1	17509.4
67.5°	7585.2	7619.5	8602.4	10730.2	14671.5	20954.3	25217.4	25116.7	23141.1	19892.8	15892.6
70°	4594.8	4614.5	5386.0	7118.3	10531.2	16939.3	22730.8	22735.7	21035.4	17691.3	13526.4
72.5°	2420.3	2471.9	2781.5	4041.9	6395.9	11885.1	18440.7	18878.1	18059.8	15099.0	10686.0
75°	1346.5	1353.9	1572.6	1992.7	3263.1	6651.4	13860.6	13985.9	14298.0	12152.9	7902.1
77.5°	1027.1	1041.8	1110.6	1287.6	1776.5	3083.7	8388.6	9017.7	10076.7	8568.0	4508.8
80°	833.0	847.7	906.7	1012.3	1181.9	1462.0	3897.0	4236.0	5393.4	3803.6	1759.3
82.5°	648.7	638.8	715.0	783.8	860.0	864.9	1599.6	1769.1	2196.6	1636.5	761.7
85°	481.6	481.6	543.0	528.3	555.3	506.1	705.2	778.9	879.6	695.4	353.8
87.5°	191.7	211.3	356.3	319.5	248.1	199.0	260.4	275.2	304.7	272.7	147.4
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: P647138
 CATALOG NUMBER: GALN-SA8C-835-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5914.3	5914.3	5914.3	5914.3	5914.3	5914.3	5914.3	5914.3	5914.3	5914.3	5914.3
2.5°	5924.1	5931.5	5914.3	5902.0	5897.1	5889.7	5882.4	5884.8	5894.7	5904.4	5902.0
5°	5953.6	5956.0	5926.5	5911.8	5902.0	5892.2	5892.2	5899.5	5919.2	5934.0	5934.0
7.5°	6027.3	6027.3	5985.6	5958.5	5943.8	5926.5	5921.7	5924.1	5938.8	5958.5	5961.0
10°	6142.8	6132.9	6078.9	6037.2	6010.1	5968.3	5931.5	5911.8	5919.2	5931.5	5931.5
12.5°	6282.9	6255.9	6187.0	6130.5	6064.2	5985.6	5909.4	5870.1	5867.6	5879.9	5874.9
15°	6432.7	6403.2	6307.5	6204.3	6088.8	5973.3	5882.4	5825.8	5781.6	5769.3	5796.3
17.5°	6607.2	6545.7	6413.1	6270.6	6098.6	5948.7	5806.2	5690.7	5612.1	5589.9	5597.3
20°	6818.5	6737.4	6558.0	6334.5	6091.2	5860.2	5639.1	5484.3	5356.5	5317.2	5322.1
22.5°	7110.9	6970.8	6708.0	6366.4	6029.7	5693.1	5386.0	5184.5	5029.7	4968.3	5005.2
25°	7442.6	7290.3	6850.5	6359.1	5870.1	5425.3	5086.2	4823.4	4683.3	4592.4	4612.0
27.5°	7899.6	7629.3	7002.8	6292.7	5641.5	5098.5	4705.4	4457.2	4329.4	4282.8	4304.9
30°	8484.4	8069.2	7167.4	6113.3	5280.3	4685.7	4322.1	4159.9	4083.7	4024.8	4044.4
32.5°	8907.0	8378.8	7204.3	5811.1	4889.7	4309.8	4061.6	3941.2	3857.7	3801.2	3813.4
35°	9209.3	8641.7	7187.1	5440.0	4481.8	4000.2	3855.2	3756.9	3621.8	3498.9	3476.8
37.5°	9614.7	8970.9	7061.7	5034.6	4078.8	3791.4	3688.2	3506.3	3312.2	3147.6	3140.2
40°	10236.3	9356.7	6793.9	4557.9	3734.8	3636.6	3511.2	3275.4	3066.5	2933.8	2924.0
42.5°	10877.7	9713.0	6430.3	4056.7	3452.2	3474.3	3322.0	3088.6	2960.8	2874.9	2865.0
45°	11661.5	10098.7	6037.2	3621.8	3243.4	3322.0	3157.4	3022.2	2946.1	2889.6	2874.9
47.5°	12509.2	10494.3	5594.8	3231.1	3066.5	3182.0	3088.6	3027.2	2985.4	2946.1	2928.9
50°	13423.2	10936.6	5179.6	2916.6	2906.7	3037.0	3081.3	3059.1	3034.5	3022.2	3007.5
52.5°	14425.8	11388.7	4830.7	2695.5	2766.7	2933.8	3083.7	3100.9	3100.9	3093.5	3083.7
55°	15103.9	11703.3	4476.9	2516.1	2624.2	2850.3	3078.8	3145.1	3169.7	3159.9	3150.0
57.5°	15605.1	11875.2	4032.1	2361.3	2503.8	2769.2	3051.7	3150.0	3174.6	3186.9	3182.0
60°	15708.3	11715.6	3449.8	2199.1	2373.6	2651.2	2953.5	3076.3	3108.3	3184.5	3191.8
62.5°	15243.9	11224.1	2869.9	2039.4	2213.9	2471.9	2820.8	2992.8	3056.7	3174.6	3186.9
64°	14673.9	10673.7	2548.0	1938.6	2110.7	2371.1	2754.4	2970.6	3054.2	3211.5	3221.3
65°	14256.2	10273.2	2346.6	1874.8	2044.3	2304.8	2717.6	2978.1	3076.3	3267.9	3282.7
67.5°	12718.0	8894.7	1941.1	1724.9	1887.0	2191.8	2724.9	3039.4	3071.4	3290.1	3287.7
70°	10523.8	7081.4	1626.6	1587.3	1734.7	2100.9	2695.5	2941.2	2943.6	3088.6	3054.2
72.5°	7880.0	5233.7	1410.4	1444.8	1565.2	1884.6	2545.6	2808.5	2766.7	2786.4	2751.9
75°	5413.0	3462.1	1213.8	1292.4	1388.3	1665.9	2334.3	2550.5	2484.1	2459.6	2435.0
77.5°	2889.6	1914.1	1009.9	1142.6	1206.4	1439.9	2037.0	2245.8	2177.0	2081.2	2049.3
80°	1169.6	901.8	813.3	946.0	982.8	1159.8	1695.4	1825.6	1774.0	1607.0	1552.9
82.5°	587.2	540.6	638.8	744.5	747.0	828.0	1260.5	1383.3	1267.8	1063.9	1017.3
85°	307.2	317.0	439.8	523.4	462.0	447.2	756.8	837.9	769.1	668.4	602.0
87.5°	110.6	127.8	231.0	228.5	162.2	86.0	167.1	81.1	44.2	27.0	34.4
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)