

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: P647181

Luminaire Tested: **GALN-SA9C-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647181  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-835-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33005 lumens  
Efficiency: N/A  
Efficacy: 68.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

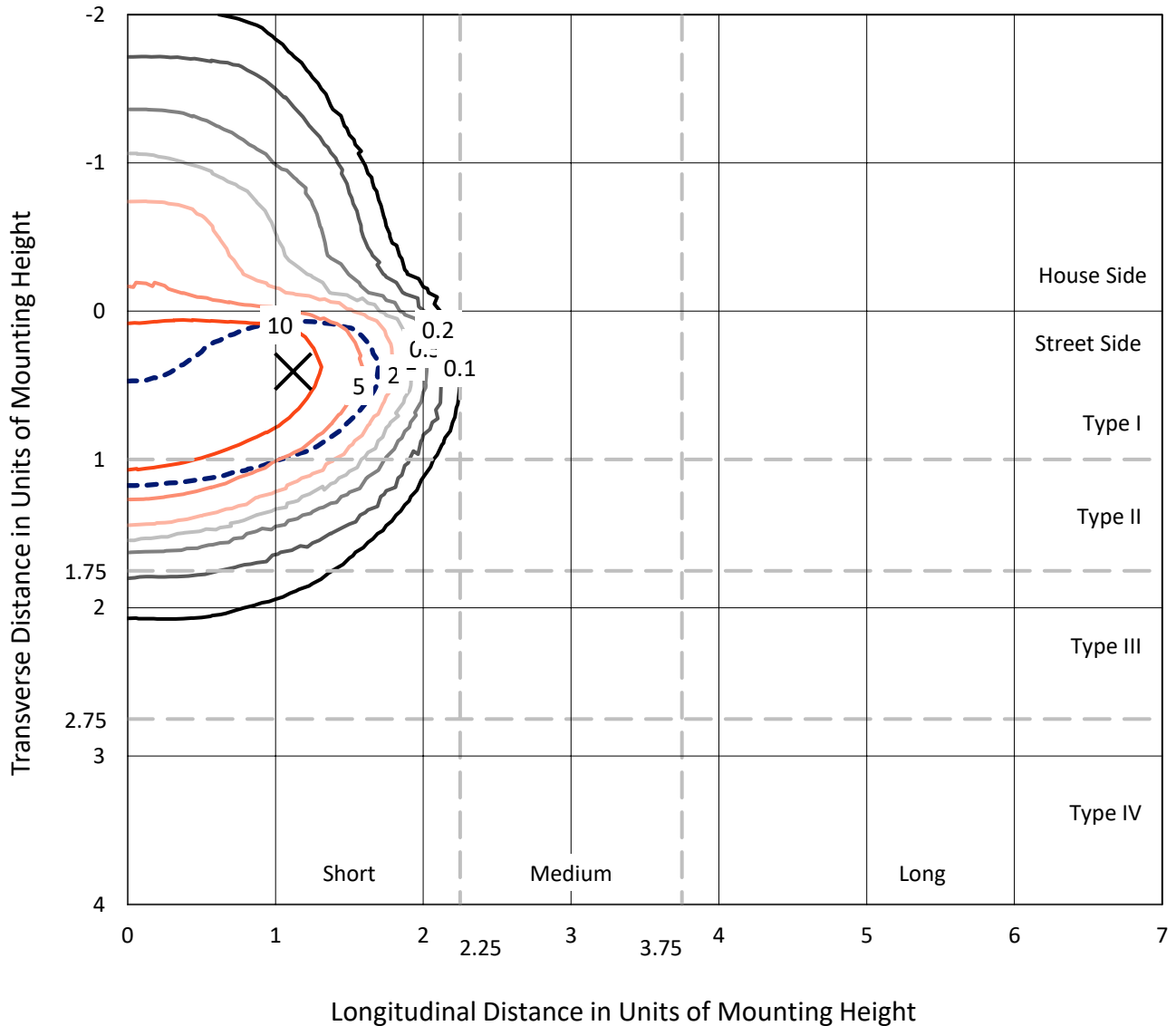
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA9C-835-U-T2R-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

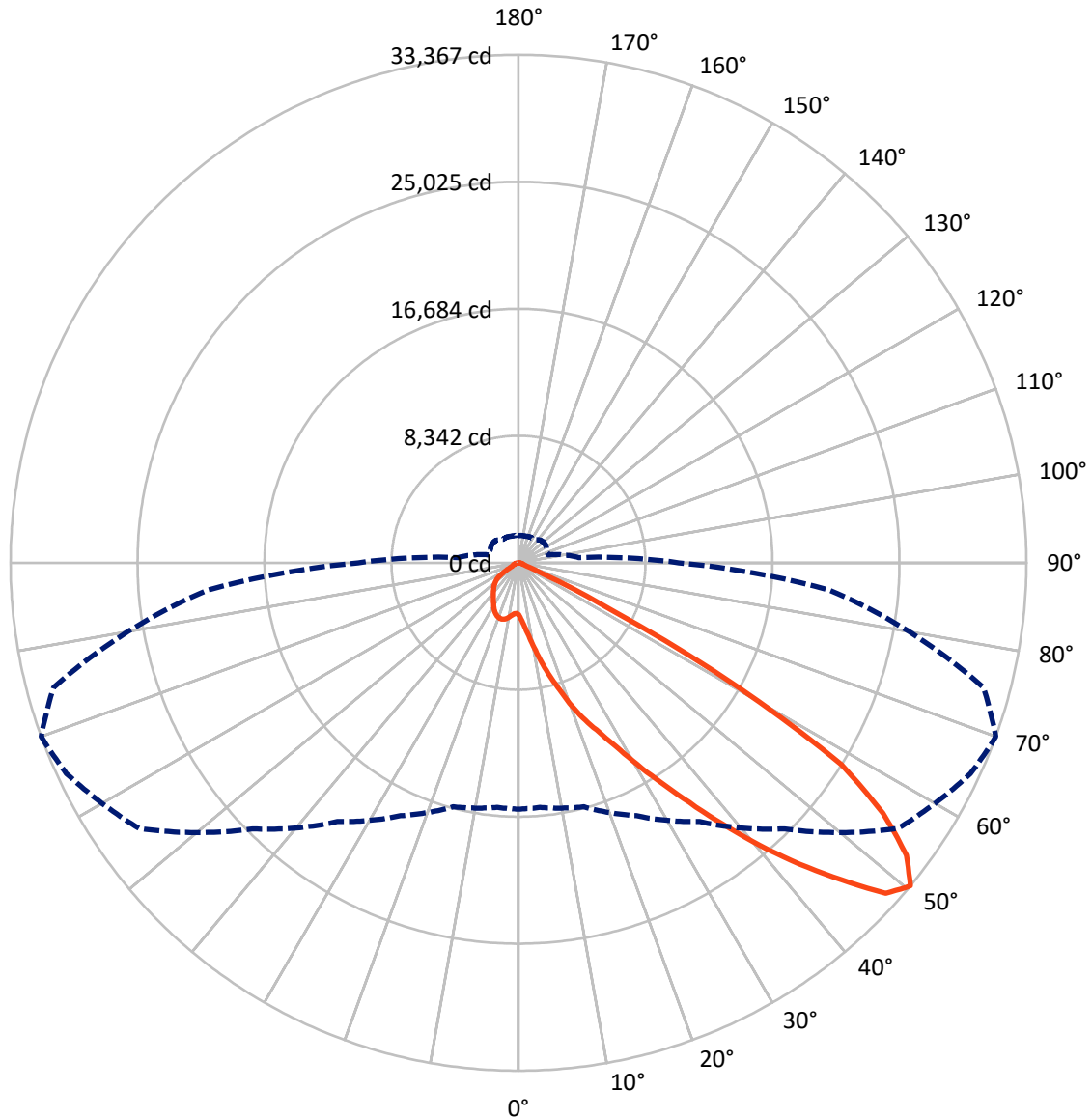
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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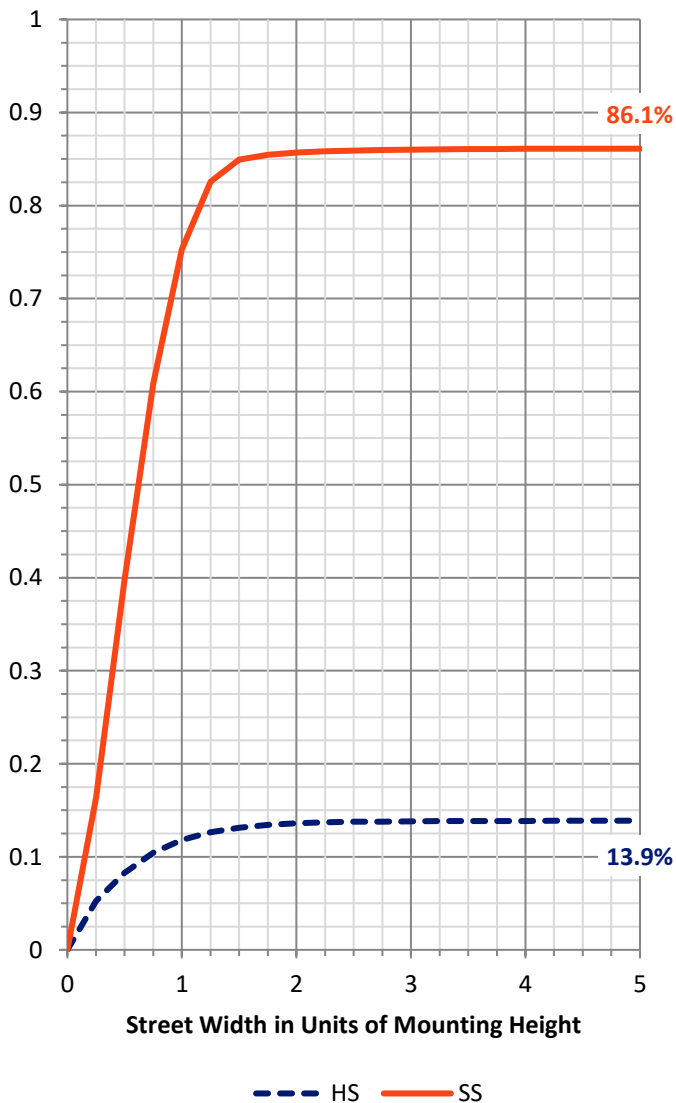
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4609.4	0.0	4609.4
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	28395.7	0.0	28395.7
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	33005.0	0.0	33005.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	444.6	1.3
10°-20°	1923.0	5.8
20°-30°	4034.1	12.2
30°-40°	6953.4	21.1
40°-50°	10162.3	30.8
50°-60°	7914.8	24.0
60°-70°	1341.0	4.1
70°-80°	184.2	0.6
80°-90°	47.7	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°	33005.0	100.0
0°-180°	33005.0	100.0

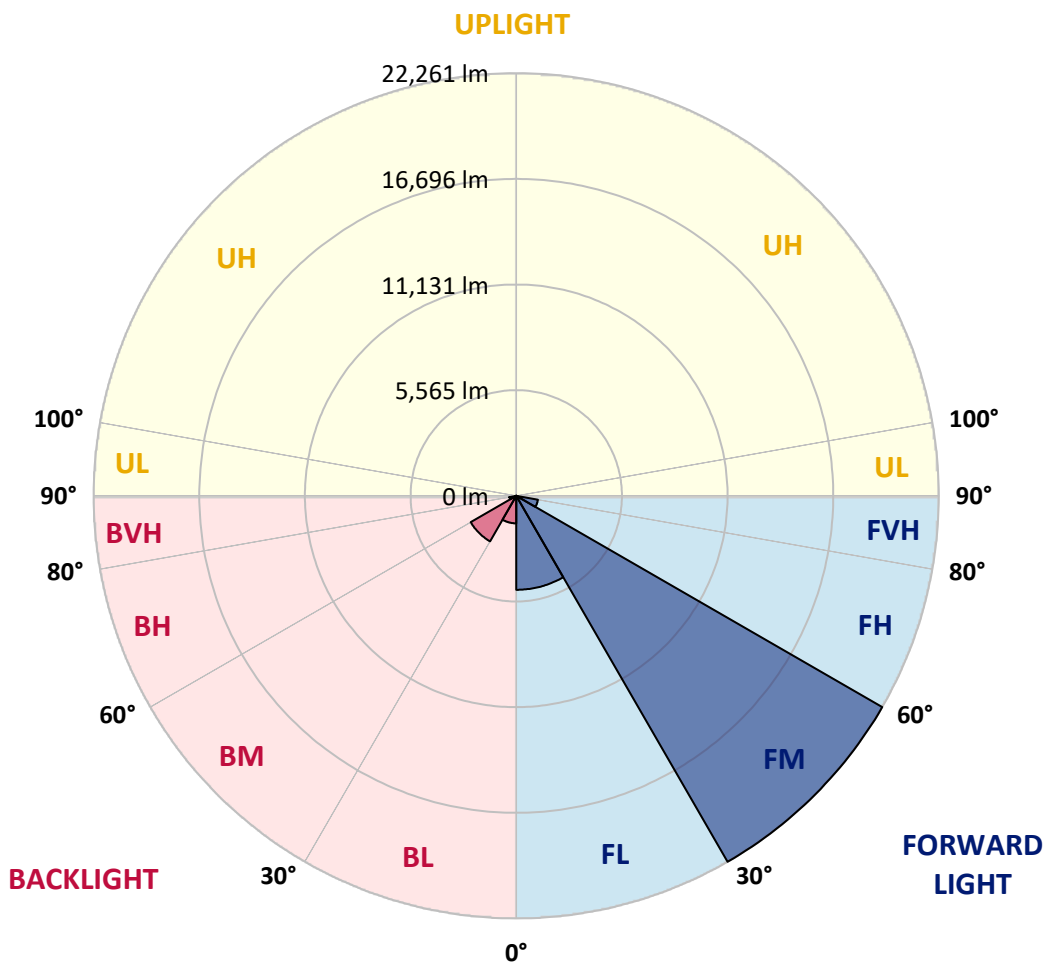


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4951.1	15.0			
FM (30°-60°)	22261.3	67.4			
FH (60°-80°)	1161.1	3.5			G1/1800
FVH (80°-90°)	22.1	0.1			G1/100
BL (0°-30°)	1450.5	4.4	B3/2500		
BM (30°-60°)	2769.2	8.4	B3/5000		
BH (60°-80°)	364.1	1.1	B1/500		G1/500
BVH (80°-90°)	25.7	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-G1**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3418.7	3418.7	3418.7	3418.7	3418.7	3418.7	3418.7	3418.7	3418.7	3418.7	3418.7
2.5°	4476.8	4444.3	4373.8	4243.5	4189.2	4059.0	3983.0	3836.5	3744.2	3641.2	3527.2
5°	6305.6	6137.3	6034.2	5887.7	5459.0	5193.1	4753.6	4379.2	4205.5	4015.6	3755.1
7.5°	8193.9	8085.4	7944.3	7629.6	7336.6	6783.1	6028.8	5204.0	4851.2	4525.7	4010.1
10°	9756.8	9452.9	9436.6	9203.3	8883.1	8221.1	7314.9	6289.3	5659.8	5182.3	4373.8
12.5°	10847.5	10570.7	10695.5	10668.5	10370.0	9762.2	8714.9	7358.2	6701.7	5958.2	4748.2
15°	11840.5	11726.6	11688.6	11656.1	11536.6	11086.3	10147.4	8660.6	7711.0	6815.6	5171.4
17.5°	12811.8	12518.8	12659.9	12687.0	12676.2	12269.2	11390.1	9897.8	8780.0	7721.9	5616.4
20°	13674.7	13701.8	13511.9	13473.9	13441.4	13425.1	12567.7	11124.2	10093.2	8671.5	6197.1
22.5°	14781.7	14591.8	14759.9	14651.4	14439.8	14309.6	13652.9	12209.6	11232.8	9816.5	6788.5
25°	16089.5	16241.4	15845.3	15801.9	15568.5	15118.1	14526.6	13425.1	12328.9	10880.0	7428.8
27.5°	17701.1	17435.2	17332.1	17093.4	16670.1	16480.2	15785.6	14678.6	13652.9	11997.9	8047.4
30°	19084.8	19014.3	18498.8	18216.7	17847.6	17842.2	16870.8	16377.1	15378.6	13750.7	8899.4
32.5°	20213.5	19904.3	19714.3	19518.9	19220.5	19301.9	18482.6	18222.1	17218.2	15378.6	9903.3
35°	20967.9	20745.4	20631.4	20332.9	20246.1	20609.7	20267.8	20159.3	19334.5	17668.6	11080.9
37.5°	21206.6	21277.2	21255.5	20881.0	21065.5	22047.7	22487.2	22205.1	21770.9	20083.3	12356.1
40°	21418.3	21467.0	21358.5	21798.1	22324.4	23442.3	25032.3	24565.6	24402.8	22530.7	14130.5
42.5°	21537.6	21499.6	21499.6	22259.4	23057.0	25303.6	27490.4	27181.1	27056.3	25135.4	16181.7
45°	21022.1	20653.1	21049.2	22080.3	23686.5	26220.6	29454.8	29883.5	29704.4	28233.9	18580.2
47.5°	19095.7	19323.7	19546.1	20924.4	22921.4	25938.4	30659.5	32119.2	32450.3	30838.5	20153.9
50°	16181.7	16132.9	16594.1	18330.6	20756.2	24723.0	30426.1	32764.9	33367.3	31620.0	20484.9
52.5°	11770.0	12128.1	12627.4	14353.0	17229.0	21575.6	27414.5	31099.0	31902.2	30659.5	20267.8
55°	6853.6	6457.5	7580.8	9040.5	11753.7	16274.0	23176.4	27566.5	29053.3	28912.2	19171.7
57.5°	2745.8	2659.0	3044.2	4102.4	6131.9	10087.8	16854.6	22650.1	25032.3	26481.1	16849.1
60°	1204.6	1177.6	1383.7	1671.3	2507.0	4650.5	9219.6	14087.1	16572.4	18504.2	11596.3
62.5°	868.3	857.4	960.5	1063.5	1324.1	2024.1	3874.5	5676.0	7076.1	8546.7	5193.1
65°	700.0	727.2	797.7	852.0	976.8	1123.3	1367.4	1579.1	1937.2	2007.8	1145.0
67.5°	569.8	591.5	656.6	716.3	738.0	607.8	629.5	553.5	553.5	493.8	396.1
70°	417.8	423.3	499.2	569.8	455.8	244.2	428.7	428.7	385.3	369.0	336.5
72.5°	309.3	314.8	374.4	352.7	179.1	151.9	314.8	347.3	314.8	298.5	271.3
75°	227.9	233.3	195.4	81.4	76.0	97.6	184.5	238.7	227.9	222.5	206.2
77.5°	43.4	32.6	27.2	38.0	54.3	81.4	119.4	146.5	151.9	162.8	151.9
80°	5.4	5.4	16.3	32.6	59.7	86.8	124.8	141.1	146.5	151.9	141.1
82.5°	0.0	5.4	16.3	32.6	59.7	81.4	108.5	124.8	135.7	141.1	135.7
85°	0.0	5.4	10.9	27.2	48.9	59.7	54.3	38.0	32.6	38.0	27.2
87.5°	0.0	0.0	5.4	5.4	10.9	10.9	10.9	10.9	10.9	10.9	10.9
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: P647181

CATALOG NUMBER: GALN-SA9C-835-U-T2R-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3418.7	3418.7	3418.7	3418.7	3418.7	3418.7	3418.7	3418.7	3418.7	3418.7	3418.7
2.5°	3462.1	3440.3	3364.4	3283.0	3212.5	3245.0	3212.5	3185.3	3196.2	3185.3	3174.5
5°	3652.0	3554.4	3391.6	3321.0	3261.3	3255.9	3239.6	3234.2	3239.6	3239.6	3190.7
7.5°	3831.1	3673.7	3500.1	3424.1	3353.6	3359.0	3321.0	3321.0	3315.5	3288.4	3277.6
10°	4102.4	3890.8	3668.3	3532.7	3445.8	3429.5	3391.6	3353.6	3353.6	3353.6	3299.2
12.5°	4400.9	4134.9	3831.1	3673.7	3570.6	3489.2	3429.5	3418.7	3359.0	3348.1	3321.0
15°	4661.4	4324.9	3939.6	3722.5	3592.3	3483.8	3391.6	3331.8	3304.7	3288.4	3266.8
17.5°	4916.4	4487.7	3999.3	3722.5	3581.4	3456.6	3359.0	3304.7	3239.6	3250.5	3207.0
20°	5258.2	4661.4	4015.6	3652.0	3478.4	3359.0	3228.8	3201.6	3163.6	3131.1	3141.9
22.5°	5589.3	4786.2	3966.8	3565.2	3315.5	3174.5	3109.4	3076.8	3060.5	3033.4	2995.4
25°	5887.7	4921.8	3890.8	3407.9	3141.9	3038.8	2979.2	2973.7	2935.7	2935.7	2865.2
27.5°	6191.6	4970.6	3760.5	3223.3	2990.0	2930.3	2903.1	2892.3	2876.0	2838.1	2789.2
30°	6538.9	4986.9	3570.6	3033.4	2854.3	2789.2	2827.2	2854.3	2783.8	2713.3	2734.9
32.5°	6826.5	4949.0	3342.7	2854.3	2756.6	2724.1	2800.1	2827.2	2745.8	2669.8	2631.8
35°	7173.8	4856.7	3120.2	2713.3	2659.0	2724.1	2789.2	2789.2	2626.4	2534.2	2512.4
37.5°	7700.2	4753.6	2914.0	2593.8	2555.9	2691.6	2778.3	2718.7	2463.6	2349.6	2322.5
40°	8264.5	4688.4	2713.3	2474.4	2501.6	2637.2	2686.1	2501.6	2241.1	2170.6	2148.9
42.5°	9083.9	4558.2	2534.2	2371.4	2452.7	2561.3	2561.3	2230.3	2132.6	2094.6	2089.2
45°	10104.1	4466.0	2376.8	2284.6	2382.2	2409.4	2322.5	2089.2	2018.7	2007.8	2013.2
47.5°	10603.3	4286.9	2214.0	2181.4	2252.0	2257.4	2029.5	1975.2	1915.5	1899.2	1888.4
50°	10527.4	3966.8	2002.4	2045.7	2143.5	2089.2	1850.4	1861.3	1807.0	1801.6	1774.4
52.5°	9995.5	3462.1	1790.7	1893.8	2002.4	1845.0	1703.9	1693.1	1693.1	1622.5	1595.4
55°	8861.4	2789.2	1535.7	1665.9	1796.1	1552.0	1514.0	1503.1	1476.0	1410.9	1394.6
57.5°	7016.4	2045.7	1155.9	1297.0	1524.8	1318.7	1313.2	1264.4	1193.8	1145.0	1145.0
60°	4172.9	1177.6	727.2	792.2	1009.3	1069.0	1188.4	1166.7	1047.3	971.3	949.6
62.5°	1904.7	607.8	461.3	472.1	542.6	694.6	933.3	1079.8	911.6	781.4	770.6
65°	640.3	450.4	379.8	363.5	374.4	417.8	558.9	765.1	727.2	602.4	580.6
67.5°	390.7	401.5	358.1	331.1	331.1	325.6	320.2	347.3	428.7	417.8	423.3
70°	336.5	369.0	331.1	298.5	287.6	271.3	227.9	190.0	162.8	190.0	200.8
72.5°	271.3	293.0	282.2	255.0	227.9	206.2	162.8	124.8	92.2	81.4	81.4
75°	200.8	217.0	227.9	195.4	173.7	146.5	119.4	81.4	48.9	32.6	32.6
77.5°	146.5	162.8	168.2	151.9	130.2	103.1	76.0	54.3	27.2	10.9	10.9
80°	124.8	146.5	162.8	151.9	135.7	97.6	70.5	38.0	21.7	5.4	5.4
82.5°	119.4	146.5	162.8	146.5	130.2	92.2	70.5	43.4	16.3	5.4	5.4
85°	27.2	38.0	48.9	59.7	70.5	70.5	54.3	32.6	16.3	5.4	5.4
87.5°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	5.4	5.4	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)