

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: P647141

Luminaire Tested: **GALN-SA8C-835-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647141  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
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-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32156.3 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G5

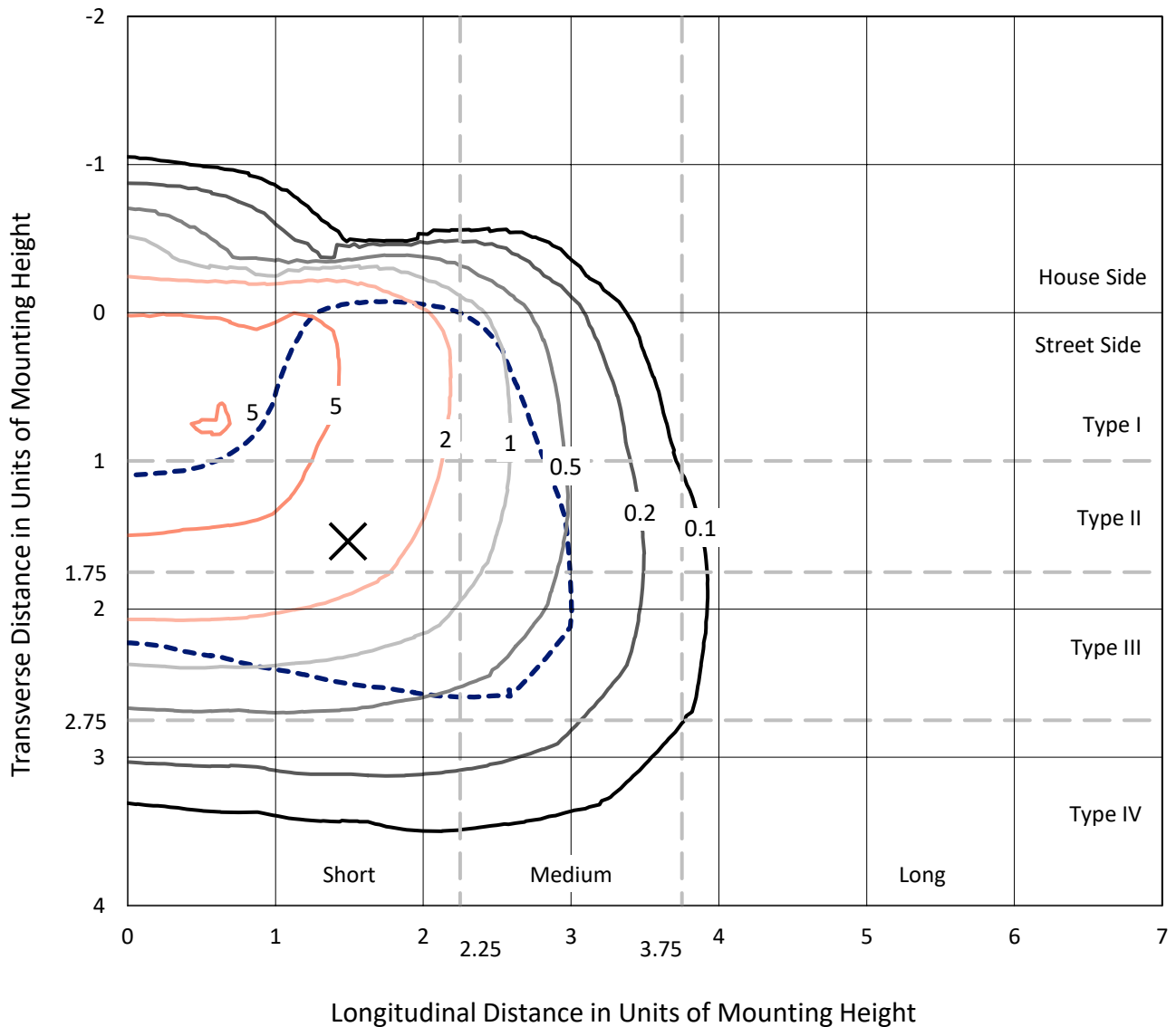
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

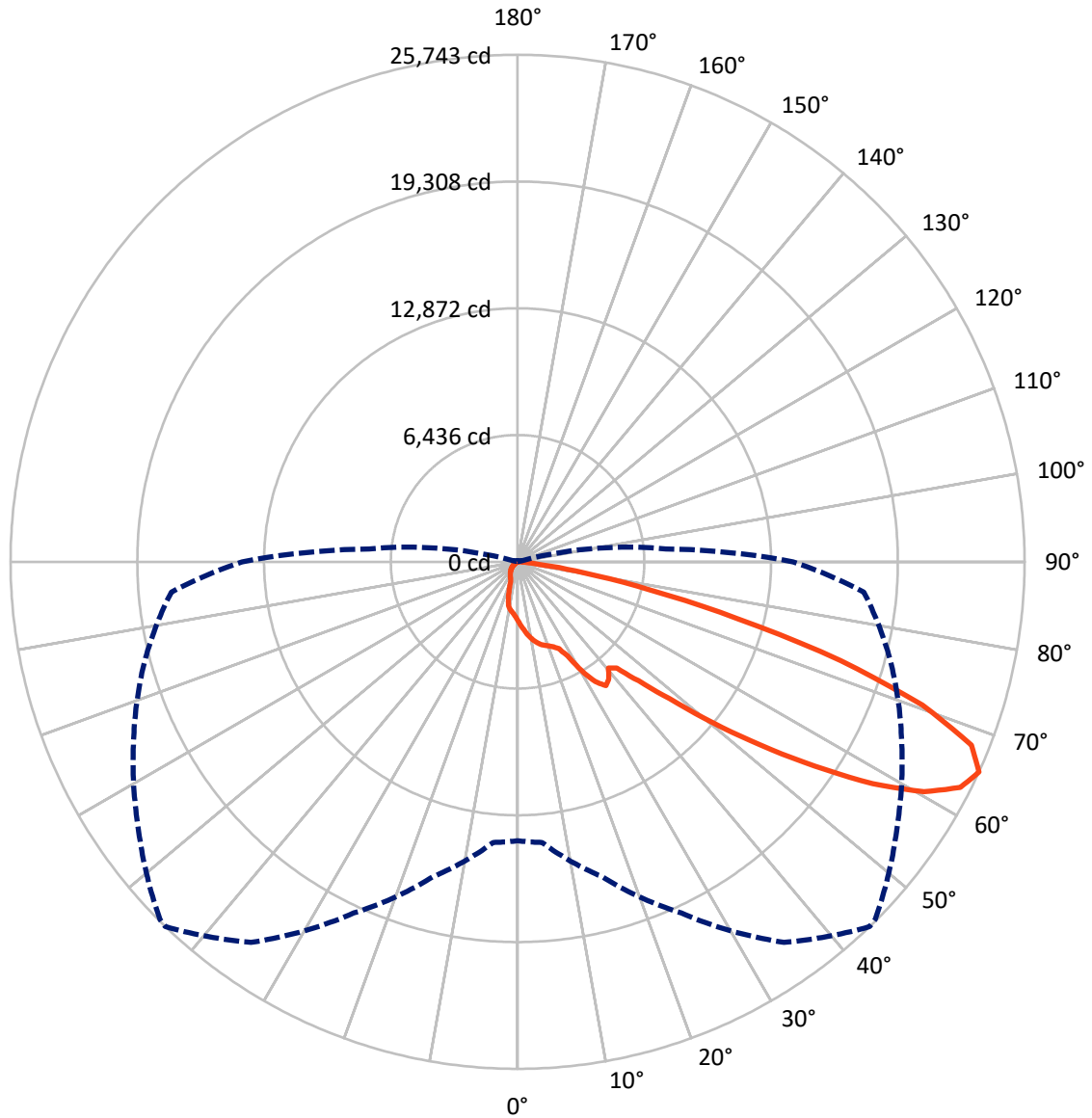
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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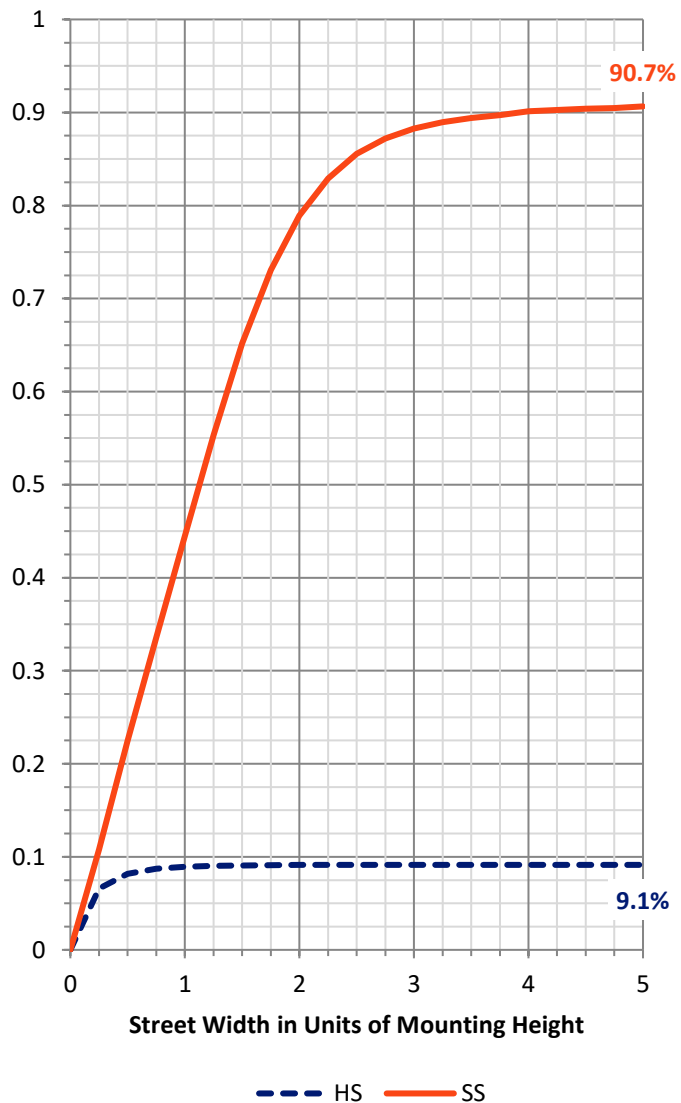
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2962.7	0.0	2962.7
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	29193.5	0.0	29193.5
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	32156.3	0.0	32156.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.7	0.9
10°-20°	895.9	2.8
20°-30°	1519.1	4.7
30°-40°	2525.7	7.9
40°-50°	4410.0	13.7
50°-60°	8615.5	26.8
60°-70°	9996.0	31.1
70°-80°	3640.0	11.3
80°-90°	256.5	0.8
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°	32156.3	100.0
0°-180°	32156.3	100.0

**Coefficient of Utilization**



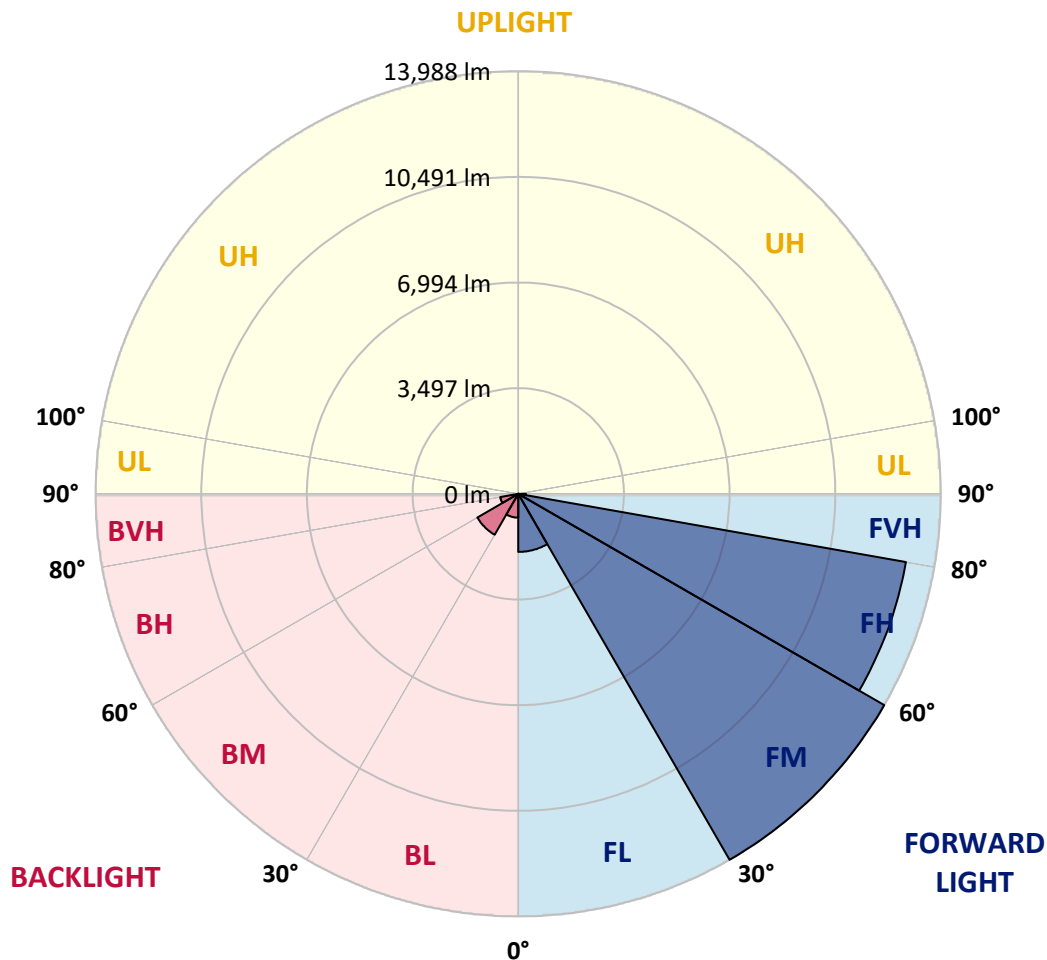
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1923.2	6.0			
FM (30°-60°)	13988.0	43.5			
FH (60°-80°)	13029.3	40.5			G5
FVH (80°-90°)	253.0	0.8			G3/500
BL (0°-30°)	789.4	2.5	B2/1000		
BM (30°-60°)	1563.1	4.9	B2/2500		
BH (60°-80°)	606.7	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8
2.5°	3368.7	3354.0	3346.6	3307.3	3277.8	3241.0	3241.0	3194.2	3140.2	3081.3	3027.2
5°	3744.7	3720.1	3688.2	3653.8	3585.0	3486.7	3486.7	3388.4	3275.4	3174.6	3064.0
7.5°	4105.9	4083.7	4029.7	3963.4	3850.3	3747.1	3739.8	3597.3	3462.1	3309.7	3152.5
10°	4422.9	4405.6	4359.0	4231.2	4113.3	3978.1	3975.6	3816.0	3658.6	3471.9	3277.8
12.5°	4644.0	4646.4	4585.0	4462.2	4309.8	4182.0	4172.2	4015.0	3850.3	3648.9	3410.5
15°	4801.2	4801.2	4737.4	4599.7	4462.2	4349.1	4339.3	4201.7	4032.1	3813.4	3555.4
17.5°	4845.4	4860.2	4791.4	4668.6	4558.0	4459.7	4457.2	4341.7	4206.6	3995.3	3702.9
20°	4828.3	4843.0	4789.0	4693.1	4617.0	4560.4	4553.1	4506.4	4381.0	4182.0	3860.2
22.5°	4791.4	4806.1	4766.8	4710.3	4673.5	4690.6	4678.3	4717.7	4651.3	4410.6	4046.9
25°	4798.8	4813.5	4784.1	4752.1	4784.1	4889.7	4921.6	5091.1	5032.2	4700.5	4248.4
27.5°	5029.8	5059.2	5017.5	5032.2	5145.2	5391.0	5452.3	5744.8	5484.3	5069.1	4562.9
30°	5543.3	5523.6	5445.0	5516.2	5909.4	6430.3	6413.1	6366.4	5958.6	5494.2	4936.3
32.5°	6010.2	5992.9	5988.1	6295.2	7007.8	7260.8	7248.5	6796.4	6383.6	5980.6	5305.0
35°	6199.3	6133.0	6118.3	6862.8	8054.5	7720.3	7644.1	6973.3	6899.6	6511.4	5680.9
37.5°	6769.4	6722.7	6494.2	6956.2	7636.8	7526.2	7467.2	7278.1	7450.0	6980.7	6106.0
40°	7943.9	7813.7	7607.3	7155.1	7044.6	7091.3	7150.3	7668.7	8101.2	7622.0	6673.6
42.5°	9403.4	9374.0	8990.6	8147.8	7319.8	7383.7	7459.9	8484.5	9037.3	8587.7	7599.9
45°	11155.4	11197.1	10644.3	9649.1	8563.1	8617.1	8727.7	9688.5	10305.2	10089.0	9057.0
47.5°	12747.6	12715.7	12528.9	11494.4	10492.0	10371.5	10550.9	11234.0	12059.6	12094.0	10865.5
50°	14349.6	14519.2	14241.5	13836.1	13091.6	12838.5	12772.1	13106.3	14364.4	14199.8	13037.6
52.5°	16652.0	16740.5	16219.5	16116.3	16285.9	15465.2	15398.9	15479.9	16605.3	16040.1	14664.2
55°	18099.2	18047.6	17853.5	18659.4	19330.2	18305.6	18222.1	17895.3	18465.3	17340.0	16229.4
57.5°	18556.2	18630.0	19082.1	20539.2	22126.5	21256.6	21104.3	20175.5	19806.9	18551.4	17669.3
60°	18352.3	18487.5	19463.0	21630.1	23831.7	23701.5	23571.3	22011.0	20770.2	19563.7	18679.1
62.5°	16900.2	17089.4	18649.7	21436.0	24409.2	25222.5	25060.3	23156.1	21411.4	20055.1	18856.0
65°	14162.9	14303.0	16543.9	19674.3	23588.5	25743.4	25684.4	23514.7	21512.2	19605.5	17644.7
67.5°	10096.4	10573.0	12649.3	16580.7	21160.8	24853.9	24954.6	23084.8	20566.2	17661.9	14612.6
70°	6346.8	6671.1	8160.1	11870.4	16964.0	21804.6	22136.3	21116.6	17848.6	13767.3	9781.9
72.5°	3027.2	3268.0	4329.4	7513.9	11973.6	17155.7	17418.6	17335.1	13801.7	8673.7	5047.0
75°	1349.0	1439.9	2066.4	3835.6	7730.2	11531.3	12212.0	12325.0	8624.5	4243.5	1963.2
77.5°	688.0	690.4	968.1	1857.6	3860.2	6880.0	7015.1	7410.7	4675.9	1869.9	683.1
80°	366.1	390.7	513.6	877.2	2002.6	3388.4	3371.2	3705.4	2073.9	916.5	228.5
82.5°	164.7	181.8	289.9	459.5	978.0	1285.1	1385.8	1516.0	889.5	584.8	100.8
85°	49.2	59.0	142.5	231.0	353.8	371.1	415.2	535.7	503.7	415.2	51.6
87.5°	7.4	7.4	59.0	63.9	51.6	66.3	68.8	76.2	162.2	152.4	27.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8	2992.8
2.5°	2997.7	2980.5	2919.1	2867.5	2823.3	2796.2	2764.3	2744.6	2734.8	2727.4	2729.9
5°	3010.0	2968.2	2862.6	2779.0	2715.1	2646.3	2599.6	2572.6	2560.3	2540.7	2540.7
7.5°	3078.8	3012.4	2865.0	2737.2	2626.7	2533.3	2444.8	2412.9	2390.8	2385.9	2380.9
10°	3177.1	3093.6	2892.0	2715.1	2557.9	2430.1	2304.8	2194.2	2108.2	2056.6	2049.3
12.5°	3300.0	3179.5	2933.8	2700.4	2498.9	2272.8	1941.1	1717.5	1567.6	1521.0	1528.3
15°	3412.9	3282.7	2975.6	2688.1	2390.8	1884.6	1508.7	1253.1	1176.9	1169.6	1172.1
17.5°	3548.1	3393.3	3024.7	2670.9	2093.5	1439.9	1120.5	1051.6	1066.4	1091.0	1088.5
20°	3688.2	3511.2	3083.7	2567.7	1670.8	1083.6	990.3	997.6	1019.7	1041.9	1046.7
22.5°	3838.0	3646.4	3152.5	2319.6	1275.3	943.5	938.7	948.4	970.5	995.1	1000.0
25°	4044.4	3816.0	3204.1	1995.2	965.7	872.3	882.1	899.3	918.9	946.0	950.9
27.5°	4309.8	4044.4	3231.1	1572.6	835.5	808.4	810.9	835.5	860.0	884.6	884.6
30°	4653.8	4317.1	3177.1	1189.2	771.6	747.0	737.1	751.9	783.9	808.4	810.9
32.5°	4960.9	4575.1	3034.6	909.1	724.8	690.4	665.9	668.4	680.7	695.4	697.8
35°	5268.1	4825.8	2791.3	764.1	675.7	636.4	599.5	579.9	570.0	562.7	570.0
37.5°	5661.2	5137.9	2467.0	695.4	633.9	584.8	533.2	491.4	457.0	434.9	439.8
40°	6167.4	5570.3	2083.6	651.1	594.6	535.7	466.8	412.8	353.8	334.2	324.3
42.5°	7002.8	6226.3	1680.7	614.3	555.3	484.1	398.1	324.3	270.3	250.6	255.6
45°	8322.3	7054.4	1294.9	575.0	516.0	427.5	334.2	255.6	211.3	201.5	206.4
47.5°	10071.8	8125.7	997.6	530.7	466.8	366.1	262.9	201.5	174.5	172.0	169.5
50°	11718.1	9123.4	833.0	481.6	407.9	304.7	216.3	169.5	152.4	149.9	149.9
52.5°	13207.1	9838.4	678.2	425.1	344.0	250.6	181.8	149.9	135.1	127.8	127.8
55°	14531.5	10305.2	550.4	356.3	270.3	199.0	157.2	135.1	117.9	108.1	105.6
57.5°	15531.5	10361.8	412.8	285.0	201.5	154.8	135.1	117.9	98.3	86.0	81.1
60°	15959.1	9872.8	304.7	216.3	149.9	122.9	108.1	95.8	73.7	61.5	59.0
62.5°	15529.1	8921.8	226.1	164.7	115.5	90.9	76.2	71.3	51.6	36.9	34.4
65°	13988.5	7548.3	179.4	125.3	86.0	66.3	49.2	46.7	31.9	17.2	14.7
67.5°	11207.0	5911.9	142.5	93.3	61.5	44.2	31.9	29.5	17.2	4.9	4.9
70°	7287.9	3779.1	115.5	68.8	39.3	29.5	19.7	14.7	9.9	2.4	0.0
72.5°	3604.6	1766.7	93.3	54.0	27.0	14.7	7.4	4.9	7.4	0.0	0.0
75°	1398.1	629.1	68.8	36.9	14.7	7.4	4.9	0.0	2.4	0.0	0.0
77.5°	464.4	208.8	41.7	19.7	9.9	4.9	0.0	0.0	0.0	0.0	0.0
80°	172.0	81.1	22.1	12.3	4.9	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	68.8	31.9	14.7	9.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.4	19.7	9.9	7.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.6	14.7	9.9	7.4	4.9	2.4	0.0	0.0	0.0	0.0	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)