

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: P647319

Luminaire Tested: **GALN-SA3D-835-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647319  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-835-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14815.2 lumens  
Efficiency: N/A  
Efficacy: 80.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

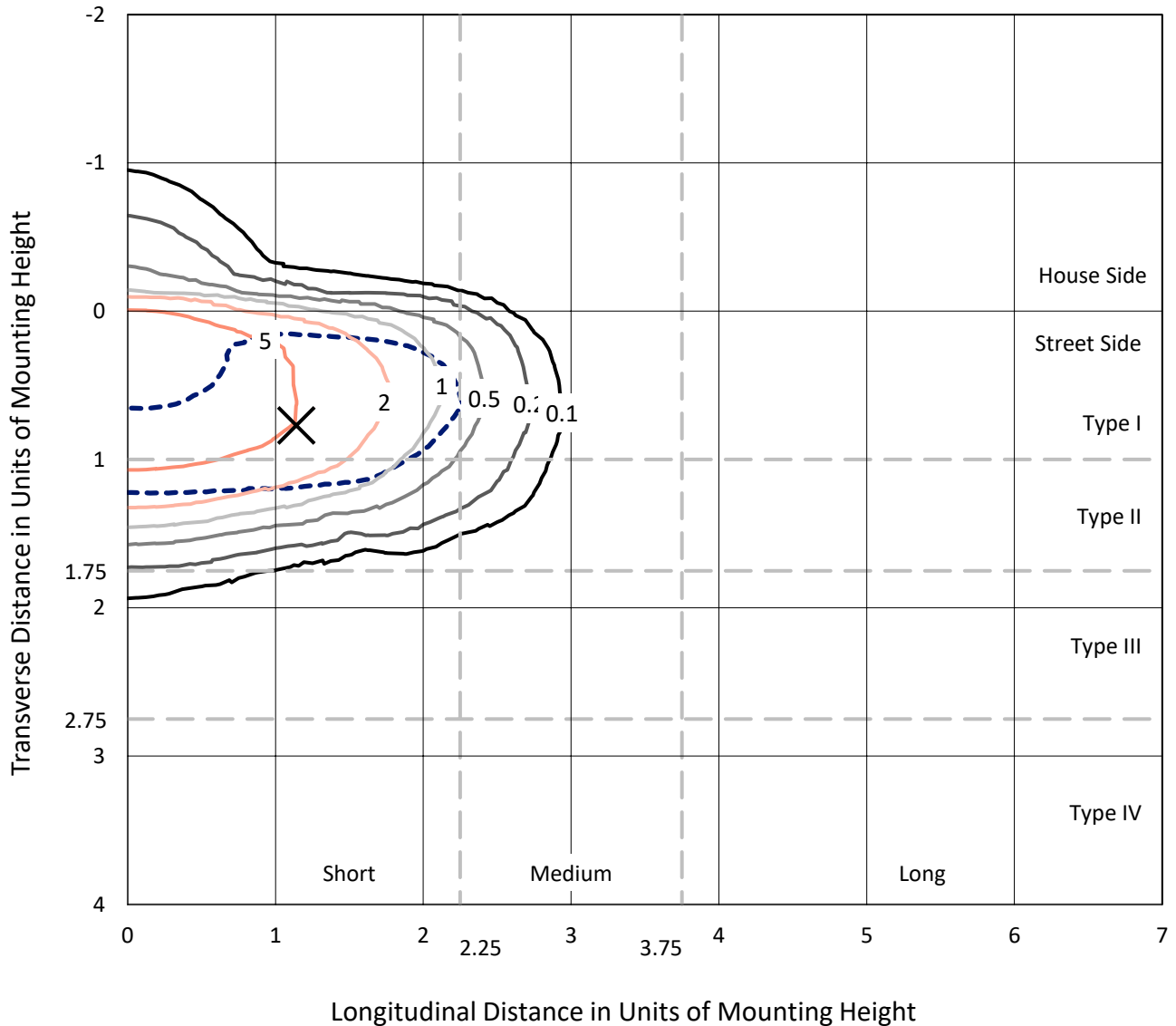
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

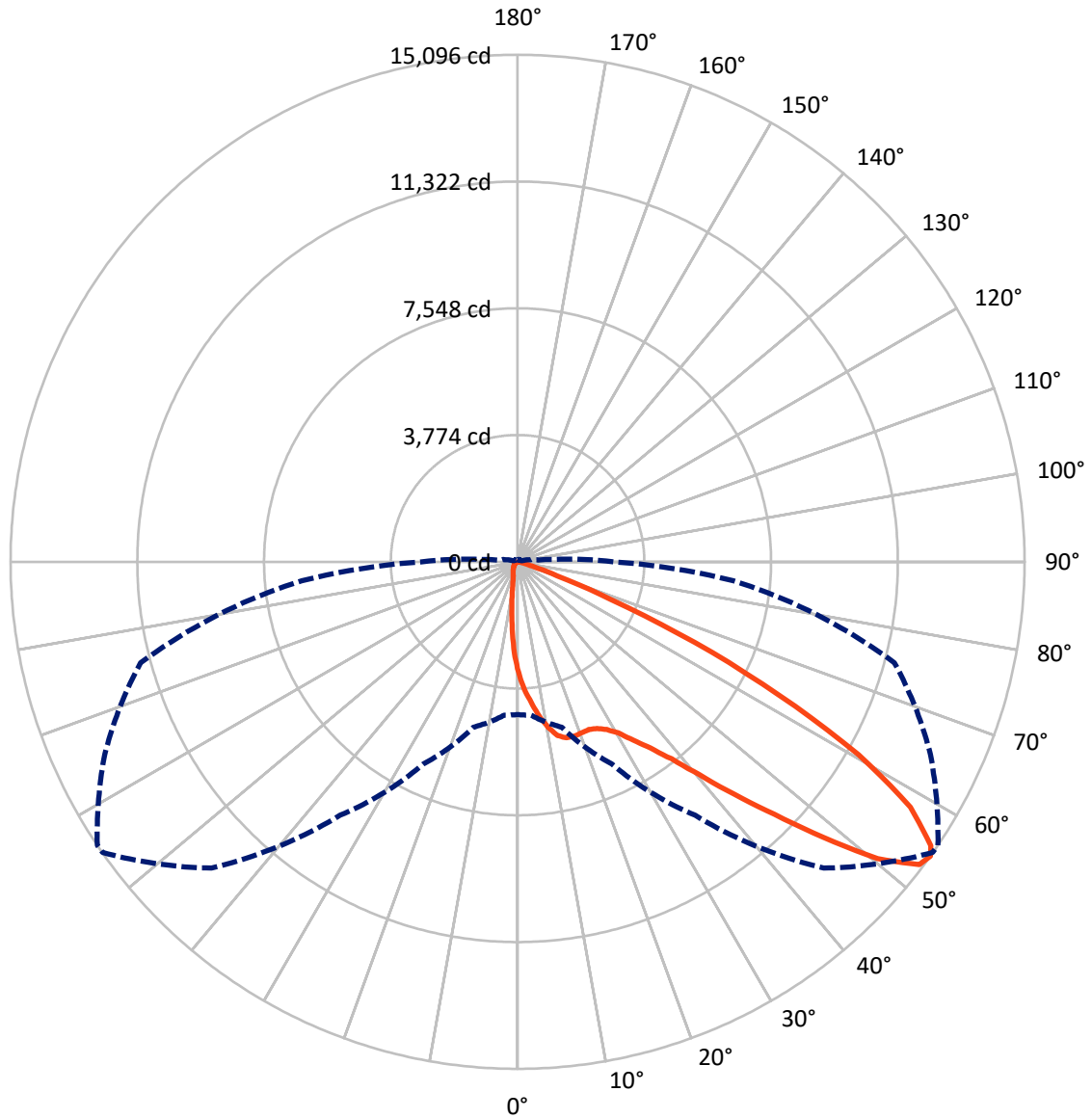
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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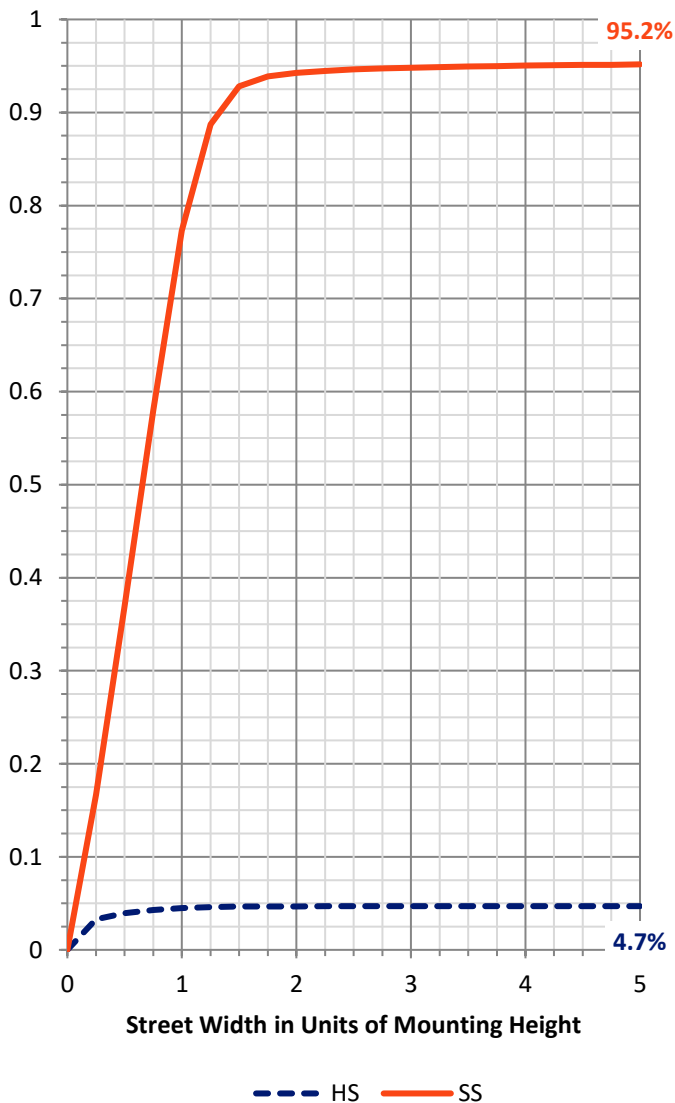
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	700.6	0.0	700.6
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	14114.6	0.0	14114.6
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	14815.2	0.0	14815.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.9	2.0
10°-20°	786.3	5.3
20°-30°	1361.8	9.2
30°-40°	2350.6	15.9
40°-50°	4000.9	27.0
50°-60°	3959.4	26.7
60°-70°	1807.1	12.2
70°-80°	232.1	1.6
80°-90°	26.2	0.2
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°	14815.2	100.0
0°-180°	14815.2	100.0

**Coefficient of Utilization**



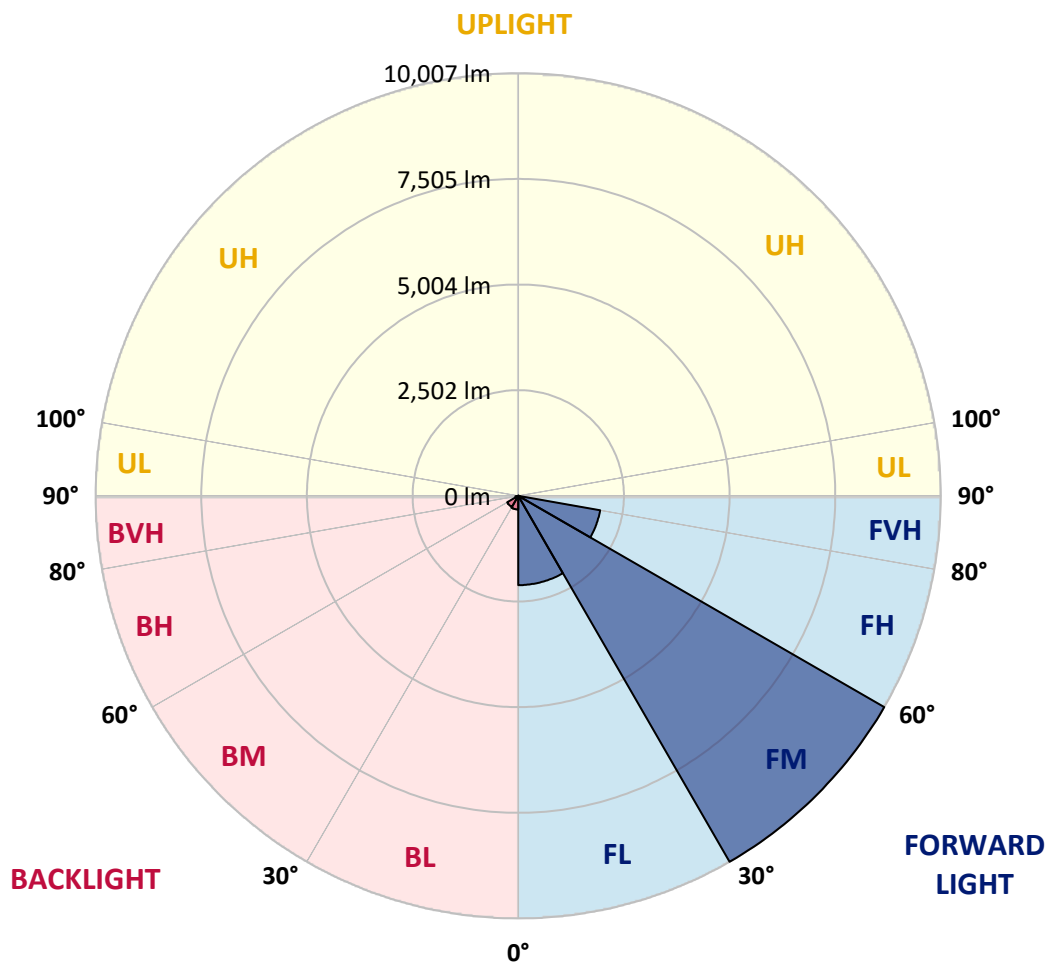
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2114.9	14.3			
FM (30°-60°)	10007.2	67.5			
FH (60°-80°)	1969.1	13.3			G2/5000
FVH (80°-90°)	23.4	0.2			G1/100
BL (0°-30°)	324.0	2.2	B1/500		
BM (30°-60°)	303.6	2.0	B1/1000		
BH (60°-80°)	70.2	0.5	B0/110		G0/110
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5
2.5°	4183.1	4154.1	4114.1	4083.1	4010.1	3905.2	3794.3	3794.3	3687.3	3538.4	3386.5
5°	4824.8	4805.8	4766.8	4686.9	4604.9	4457.9	4235.1	4196.1	4005.2	3735.3	3451.5
7.5°	5085.7	5094.7	5096.7	5075.7	5036.7	4891.8	4670.9	4643.9	4339.0	3977.2	3536.4
10°	4835.8	4879.8	4922.7	5009.7	5132.6	5167.6	5042.7	5014.7	4714.8	4222.1	3628.3
12.5°	4464.0	4487.9	4512.0	4648.9	4895.8	5178.6	5309.6	5308.6	5054.7	4466.0	3745.3
15°	4291.1	4312.1	4314.0	4375.0	4588.9	5000.7	5423.5	5438.5	5386.6	4766.8	3871.2
17.5°	4327.0	4344.0	4330.0	4345.0	4457.0	4804.8	5410.5	5460.5	5655.5	5055.7	3985.2
20°	4561.9	4594.9	4540.9	4499.0	4532.9	4752.8	5366.5	5436.5	5845.3	5337.6	4089.1
22.5°	4983.7	5001.7	4933.8	4818.8	4758.8	4861.8	5354.5	5423.5	6007.3	5568.5	4149.1
25°	5452.5	5446.5	5371.5	5242.6	5116.7	5081.7	5433.6	5495.5	6141.2	5776.3	4167.1
27.5°	5921.3	5939.3	5813.4	5653.4	5502.5	5411.5	5610.4	5656.4	6292.1	6013.3	4189.1
30°	6466.0	6437.0	6313.1	6130.2	5957.3	5830.4	5895.3	5908.3	6500.1	6327.1	4247.1
32.5°	7174.7	7094.8	6955.9	6636.0	6512.1	6297.1	6313.1	6329.1	6752.9	6638.0	4317.0
35°	8136.3	8132.3	7860.4	7429.6	7127.7	6860.9	6790.9	6803.9	7135.7	7099.8	4471.9
37.5°	9293.7	9309.8	8999.9	8566.1	8010.3	7586.6	7442.6	7444.6	7717.5	7737.4	4707.9
40°	10236.3	10278.3	10093.4	9800.5	9251.8	8589.1	8347.2	8325.2	8535.1	8510.1	5044.7
42.5°	10642.1	10681.1	10750.1	10852.1	10550.2	10003.5	9432.7	9462.7	9526.7	9351.8	5422.5
45°	10443.3	10505.2	10776.1	11405.8	11689.6	11505.7	10825.1	10720.1	10449.2	10266.3	5802.3
47.5°	9614.6	9765.6	10218.3	11266.9	12260.4	12882.2	12396.4	12257.4	11372.8	10934.0	6044.2
50°	8252.3	8261.2	8892.0	10232.3	11964.6	13750.7	14000.6	13896.7	12233.4	11308.9	6166.2
52.5°	5982.3	6179.2	6756.9	8309.2	10683.1	13618.8	15023.2	14980.2	13121.0	11500.8	6342.1
54°	4547.9	4585.9	5099.7	6640.0	9210.8	12894.1	15086.1	15096.1	13561.8	11616.7	6446.0
55°	3728.3	3637.3	4177.1	5656.4	8206.2	12253.4	14880.2	14928.2	13759.7	11676.6	6523.0
57.5°	1767.2	1768.2	2181.0	2983.6	5139.7	9514.6	13621.8	13791.7	13781.7	11779.6	6760.0
60°	894.6	900.6	991.5	1377.4	2538.9	6325.2	11262.8	11667.7	12721.2	11794.6	6837.9
62.5°	625.7	618.7	603.7	662.7	1068.5	3214.5	8385.1	8737.0	10808.1	11223.9	6590.0
65°	535.7	520.8	478.8	469.8	539.7	1280.4	5222.6	5796.4	8252.3	9718.6	5884.3
67.5°	457.8	451.8	413.8	390.8	381.8	557.7	2694.8	2996.6	5640.4	6985.8	4457.0
70°	388.8	385.9	362.8	333.9	308.9	333.9	999.6	1238.5	3143.6	3761.3	2103.1
72.5°	315.9	318.8	322.8	285.9	259.9	236.9	426.8	496.7	1315.4	1344.4	735.6
75°	276.9	273.9	273.9	248.9	216.9	175.9	234.9	252.9	402.9	373.8	170.9
77.5°	194.9	187.9	219.9	204.9	181.0	125.0	134.0	142.0	166.9	142.9	79.9
80°	134.9	134.9	140.9	183.9	162.9	91.0	82.0	87.9	99.0	85.0	46.0
82.5°	76.0	78.0	91.9	98.0	95.0	61.0	53.9	55.0	66.0	57.9	29.0
85°	9.0	15.0	53.0	52.0	39.0	27.0	30.0	31.0	41.0	36.0	17.0
87.5°	1.0	2.0	11.0	14.0	10.0	11.0	11.0	11.0	14.0	16.0	12.0
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°	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5	3291.5
2.5°	3304.5	3228.5	3047.6	2837.7	2703.8	2485.9	2301.9	2169.0	2136.0	2072.1	2091.1
5°	3300.5	3142.6	2773.7	2383.9	1968.1	1658.2	1427.3	1245.4	1165.5	1112.5	1075.5
7.5°	3302.5	3055.6	2463.9	1843.2	1346.4	1042.5	828.6	717.7	643.7	612.7	616.7
10°	3308.5	2957.6	2104.1	1365.4	908.6	673.7	542.8	489.8	464.8	460.8	459.8
12.5°	3322.5	2850.7	1760.2	1013.5	635.7	489.8	439.8	421.8	413.8	413.8	410.8
15°	3337.5	2732.7	1474.3	753.6	489.8	420.8	397.8	388.8	383.8	383.8	382.8
17.5°	3337.5	2596.8	1207.5	584.7	421.8	386.8	368.8	356.8	352.8	352.8	351.8
20°	3316.5	2438.9	970.5	470.8	382.8	354.9	336.8	323.8	318.8	316.9	315.9
22.5°	3243.5	2227.9	772.7	404.8	350.9	326.8	303.9	288.8	284.9	282.9	283.8
25°	3113.6	1990.1	611.8	355.9	321.9	292.8	272.9	261.9	257.9	257.9	258.9
27.5°	2979.6	1741.2	484.8	318.8	286.9	260.9	244.9	237.9	236.9	239.9	240.9
30°	2855.7	1491.3	392.8	288.8	255.9	233.9	222.9	220.9	220.9	221.9	222.9
32.5°	2717.8	1272.5	328.9	262.9	230.9	211.9	205.9	205.9	207.9	207.9	209.9
35°	2630.8	1084.5	288.8	237.9	211.9	195.9	191.9	192.9	195.9	199.9	201.9
37.5°	2583.8	934.6	262.9	217.9	193.9	182.9	178.9	181.0	187.9	194.9	195.9
40°	2587.8	821.6	241.9	200.9	179.9	168.0	164.9	170.9	177.9	184.9	185.9
42.5°	2631.8	737.7	221.9	181.0	168.0	151.0	149.9	155.9	158.9	165.9	166.9
45°	2683.8	676.7	200.9	159.9	146.0	130.9	131.9	136.9	140.9	151.9	153.9
47.5°	2699.8	634.7	177.0	135.9	120.0	114.9	116.0	118.9	126.9	136.9	138.0
50°	2717.8	608.7	153.9	114.9	101.9	100.9	101.9	104.0	108.9	113.0	112.0
52.5°	2794.8	607.7	134.9	100.0	87.0	88.9	90.0	88.9	85.0	78.9	77.0
54°	2866.7	610.7	125.9	92.9	79.9	83.0	82.0	77.0	66.9	61.0	57.9
55°	2924.7	613.7	121.0	87.9	76.0	77.0	78.0	68.0	55.0	49.0	47.0
57.5°	3038.6	606.7	108.9	77.0	66.9	63.0	61.9	44.9	30.0	26.0	24.0
60°	2981.7	547.8	99.0	66.0	57.0	51.0	42.0	25.0	15.0	11.0	11.0
62.5°	2757.7	464.8	87.9	53.9	47.0	39.0	22.0	14.0	7.0	4.0	3.0
65°	2466.8	390.8	78.9	43.0	37.0	25.0	12.0	9.0	3.0	0.0	0.0
67.5°	1834.2	289.9	66.9	34.0	28.0	16.0	8.0	5.0	1.0	0.0	0.0
70°	849.6	177.0	57.0	26.0	20.0	12.0	6.0	3.0	0.0	0.0	0.0
72.5°	243.9	111.0	47.0	19.0	14.0	10.0	5.0	2.0	1.0	0.0	0.0
75°	85.0	88.9	35.0	14.0	11.0	7.0	4.0	2.0	1.0	0.0	0.0
77.5°	51.0	72.0	22.0	12.0	9.0	6.0	4.0	2.0	1.0	1.0	0.0
80°	29.0	48.0	14.0	10.0	8.0	5.0	3.0	2.0	1.0	1.0	0.0
82.5°	16.0	23.0	11.0	9.0	7.0	5.0	3.0	2.0	1.0	1.0	1.0
85°	13.0	12.0	9.0	8.0	6.0	4.0	3.0	1.0	0.0	0.0	0.0
87.5°	10.0	8.0	8.0	8.0	6.0	4.0	3.0	1.0	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)