

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: P647379

Luminaire Tested: **GALN-SA4D-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647379  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4D-835-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13985.9 lumens  
Efficiency: N/A  
Efficacy: 57.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

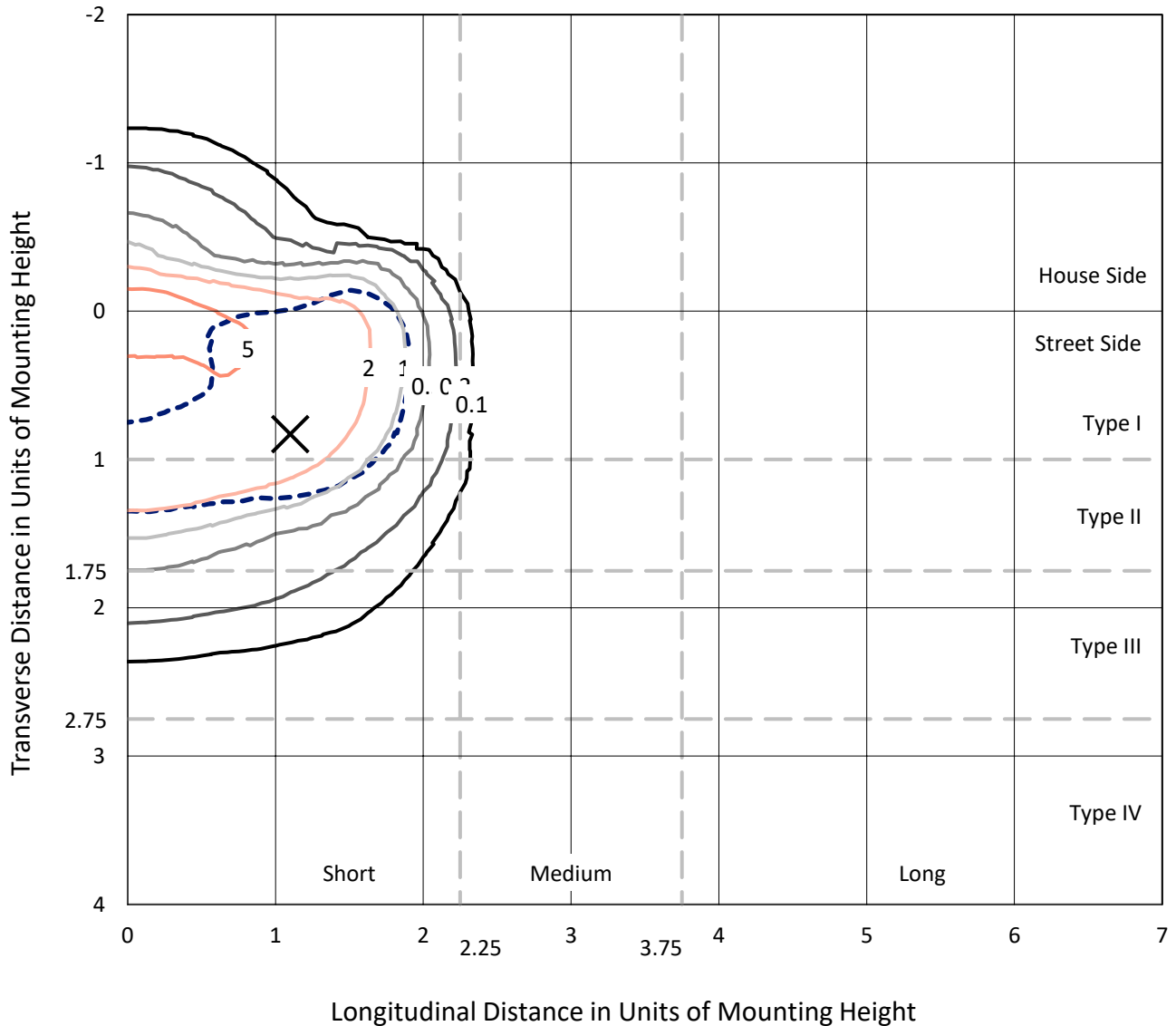
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

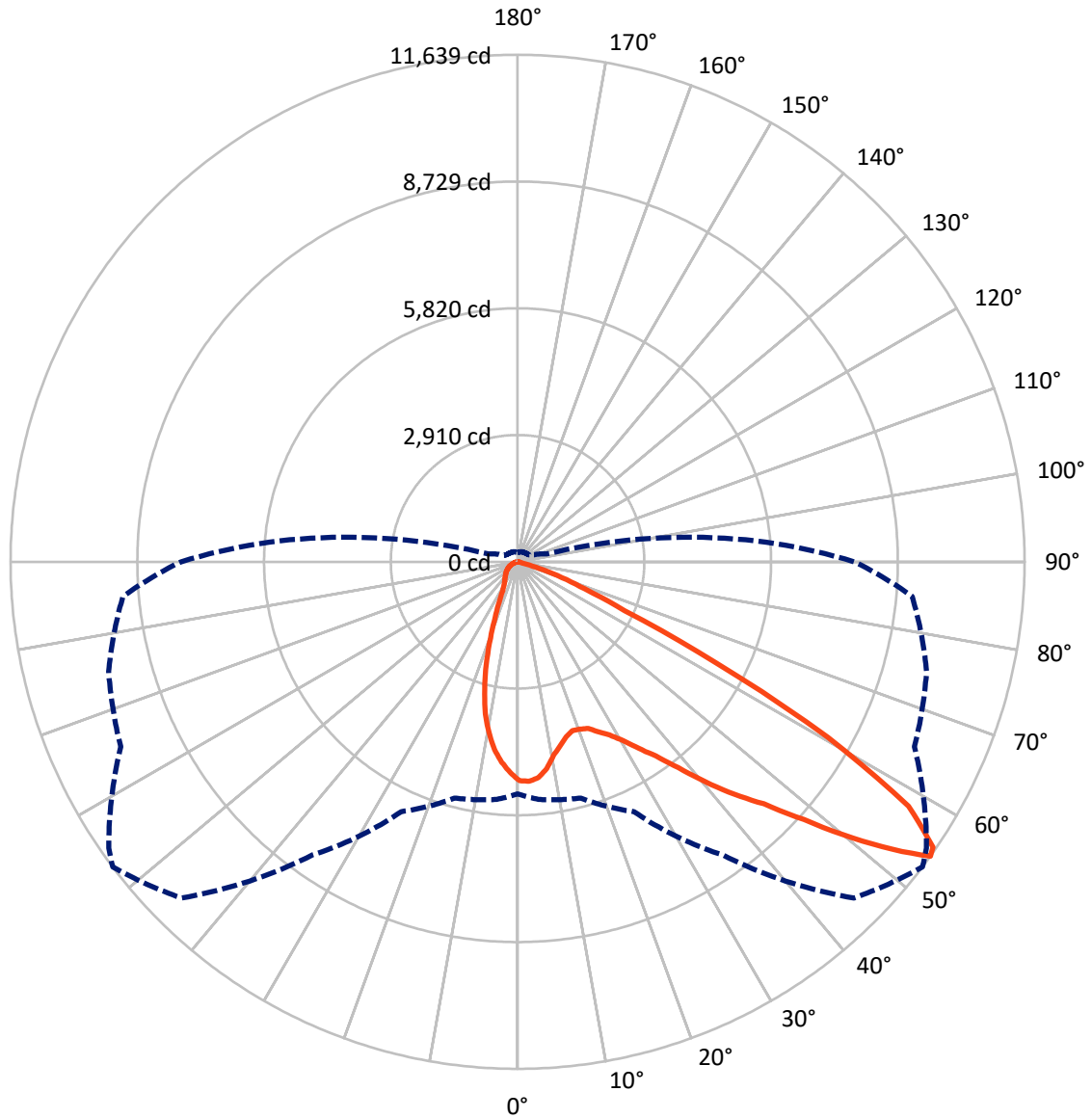
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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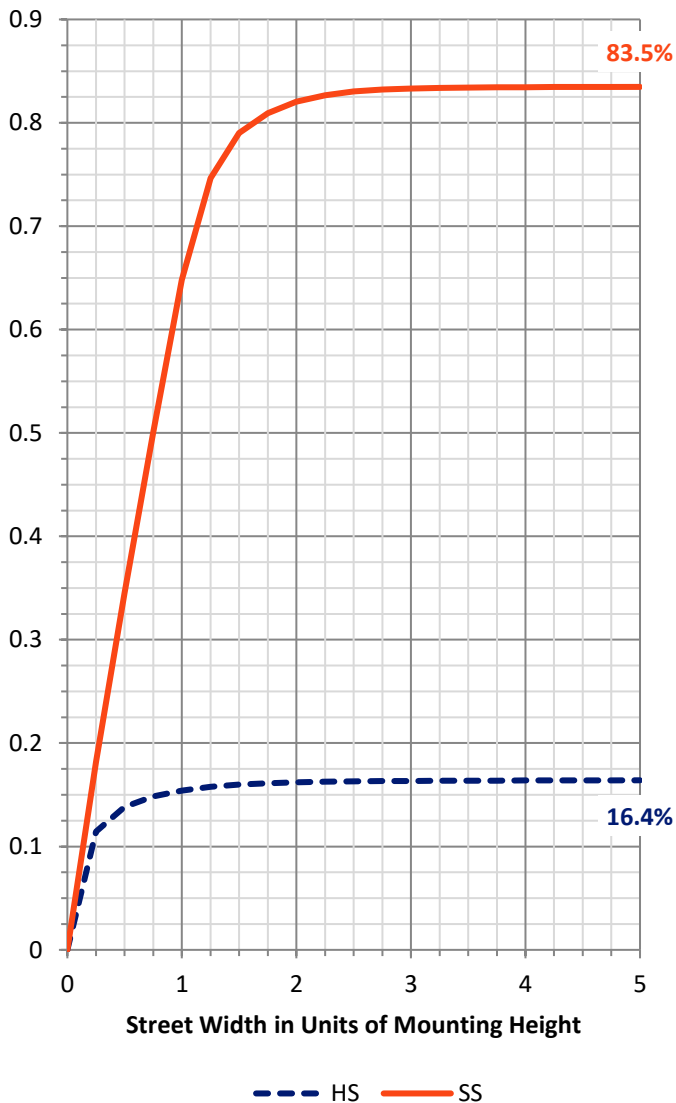
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2314.0	0.0	2314.0
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	11671.9	0.0	11671.9
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	13985.9	0.0	13985.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	431.0	3.1
10°-20°	988.2	7.1
20°-30°	1404.4	10.0
30°-40°	2167.3	15.5
40°-50°	3398.2	24.3
50°-60°	3947.5	28.2
60°-70°	1491.6	10.7
70°-80°	141.8	1.0
80°-90°	16.0	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°	13985.9	100.0
0°-180°	13985.9	100.0

**Coefficient of Utilization**

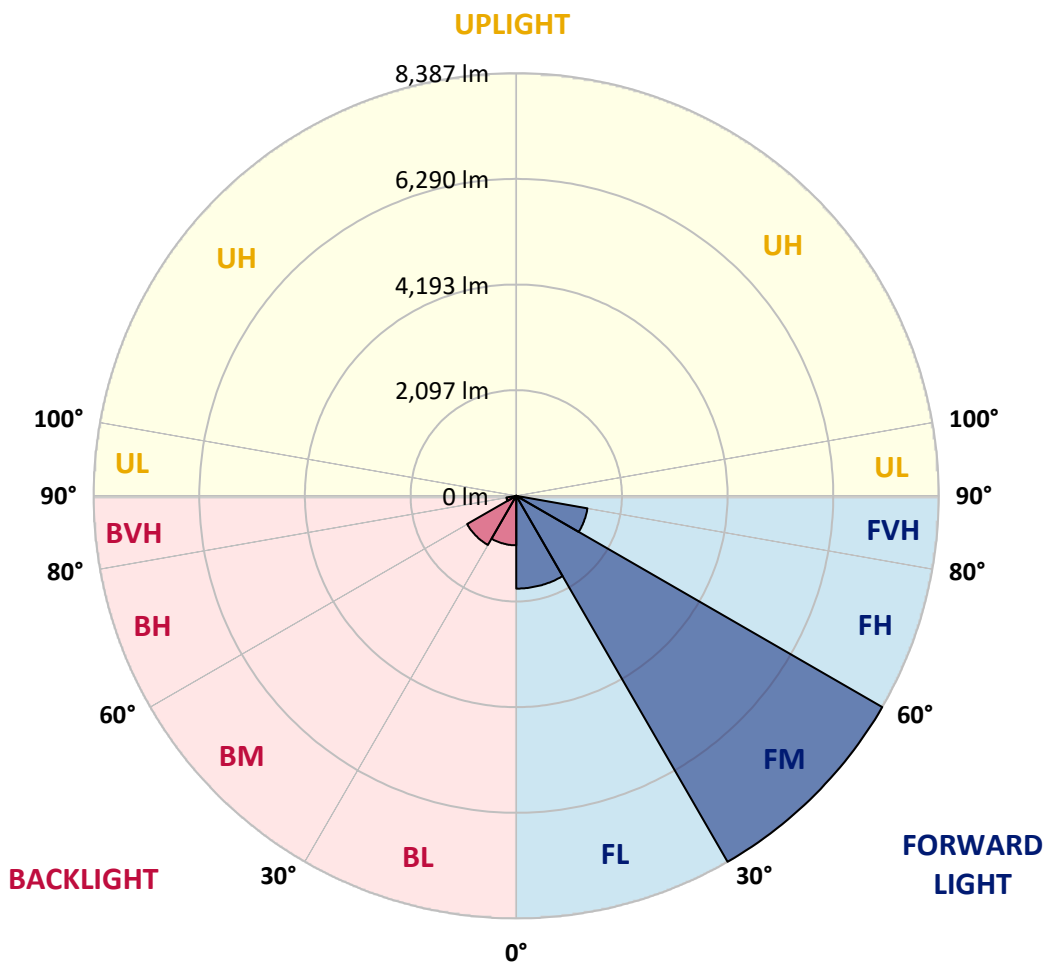


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1841.6	13.2			
FM (30°-60°)	8386.9	60.0			
FH (60°-80°)	1435.2	10.3			G1/1800
FVH (80°-90°)	8.2	0.1			G0/10
BL (0°-30°)	982.0	7.0	B2/1000		
BM (30°-60°)	1126.1	8.1	B2/2500		
BH (60°-80°)	198.3	1.4	B1/500		G1/500
BVH (80°-90°)	7.7	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5
2.5°	4997.5	4953.2	4997.5	5002.7	5033.9	5062.6	5044.4	5086.1	5062.6	5036.6	5028.7
5°	4593.6	4653.5	4656.1	4749.9	4729.1	4901.0	4976.6	4955.8	5083.5	5075.6	5057.4
7.5°	4231.4	4208.0	4239.2	4348.7	4486.7	4684.8	4794.2	4791.6	4974.0	5104.3	5091.2
10°	3895.3	3892.7	3957.8	4043.8	4161.1	4369.5	4520.7	4596.2	4880.2	5078.2	5106.9
12.5°	3668.6	3658.2	3728.6	3798.9	3983.9	4145.4	4338.3	4374.7	4700.4	4987.0	5033.9
15°	3520.1	3543.5	3548.8	3684.2	3801.5	4015.1	4166.3	4241.8	4617.0	4914.1	5093.9
17.5°	3494.1	3525.3	3528.0	3639.9	3765.1	3944.8	4077.7	4179.3	4546.7	4950.6	5096.5
20°	3546.1	3528.0	3543.5	3613.9	3736.4	3908.3	4101.1	4135.0	4523.2	4968.8	5125.1
22.5°	3694.7	3689.5	3650.4	3707.7	3793.7	3973.5	4155.9	4208.0	4591.0	5062.6	5148.6
25°	3858.9	3887.5	3851.0	3843.2	3903.1	4080.3	4322.6	4390.4	4817.6	5231.9	5221.5
27.5°	4166.3	4137.6	4137.6	4101.1	4085.5	4171.5	4502.4	4614.5	5070.4	5450.9	5304.9
30°	4460.8	4492.0	4468.5	4481.6	4377.4	4369.5	4757.7	4895.9	5518.6	5784.3	5482.1
32.5°	4927.1	4885.5	4924.5	4890.6	4752.6	4611.9	5104.3	5247.6	6060.5	6167.4	5747.8
35°	5315.3	5297.1	5463.9	5458.6	5234.6	5096.5	5471.7	5685.4	6438.3	6625.9	6060.5
37.5°	5867.7	5833.8	6024.1	6115.2	5914.6	5708.8	5998.0	6245.5	6790.1	6993.3	6381.0
40°	6435.7	6521.7	6777.0	6928.1	6714.5	6441.0	6641.6	6717.1	7024.6	7233.0	6599.9
42.5°	7154.9	7279.9	7540.4	7670.7	7652.5	7355.5	7295.5	7292.9	7194.0	7165.3	6761.4
45°	7845.3	7798.4	8199.7	8483.7	8713.0	8627.0	7926.1	7847.9	7462.3	7266.9	6803.1
47.5°	8147.6	8131.9	8405.5	8911.0	9692.7	9799.5	8843.3	8541.0	7915.7	7694.2	7029.8
50°	7756.7	7837.5	8108.5	8668.7	9867.2	10682.8	9968.8	9562.4	8444.6	8215.3	7566.5
52.5°	6480.0	6534.8	6792.7	7504.0	9273.1	11203.9	11047.6	10813.1	9416.5	9036.1	8502.0
54°	5328.4	5474.3	5615.0	6328.9	8215.3	10914.7	11639.1	11459.3	10049.6	9718.8	9090.8
55°	4640.5	4726.5	4828.1	5539.4	7483.1	10424.9	11571.3	11586.9	10474.3	9932.4	9486.8
57.5°	3389.8	3449.7	3345.5	3660.8	5138.1	8465.5	10583.8	11005.8	11047.6	10252.8	9729.2
60°	2589.9	2616.0	2498.7	2548.3	3194.4	5810.4	8186.7	8694.7	9966.3	8960.5	8241.4
62.5°	2008.9	2014.1	2011.5	2097.5	2201.7	3418.5	5120.0	5570.7	6870.8	6362.7	5596.7
65°	1479.9	1456.5	1498.2	1758.8	1878.6	2149.6	2696.7	3025.0	3733.7	3152.7	2253.8
67.5°	958.9	966.7	1008.3	1308.0	1610.2	1649.3	1659.7	1633.7	1636.3	901.5	565.4
70°	575.8	588.9	575.8	740.0	1151.6	1183.0	1081.3	1055.2	823.3	213.7	211.0
72.5°	341.3	323.1	289.2	317.9	479.4	573.2	515.9	513.3	323.1	125.0	125.0
75°	143.3	130.3	106.8	96.4	127.7	122.5	122.5	109.5	86.0	83.4	78.1
77.5°	28.7	28.7	20.8	23.4	31.2	36.5	44.3	44.3	52.1	52.1	49.5
80°	0.0	2.6	7.8	15.7	23.4	33.9	39.1	39.1	44.3	44.3	36.5
82.5°	0.0	2.6	7.8	15.7	20.8	31.2	39.1	39.1	44.3	46.9	39.1
85°	0.0	2.6	7.8	13.0	20.8	26.1	26.1	23.4	18.2	15.7	10.4
87.5°	0.0	0.0	2.6	5.2	2.6	5.2	5.2	5.2	5.2	5.2	5.2
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°	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5	5023.5
2.5°	5047.0	5044.4	4981.8	4880.2	4856.8	4770.7	4760.3	4708.3	4736.9	4640.5	4630.1
5°	5005.2	4974.0	4898.4	4833.3	4643.1	4507.7	4400.8	4270.5	4194.9	4208.0	4158.4
7.5°	5065.2	4984.4	4851.5	4624.9	4392.9	4155.9	4028.2	3762.4	3666.0	3522.7	3501.9
10°	5002.7	4942.8	4736.9	4361.7	4041.2	3699.9	3400.3	3105.8	2881.8	2785.4	2764.5
12.5°	4997.5	4893.2	4549.3	4132.4	3668.6	3178.7	2743.6	2376.2	2154.8	2029.7	2001.0
15°	4916.7	4791.6	4338.3	3778.1	3137.1	2527.4	2053.2	1698.8	1529.4	1456.5	1477.4
17.5°	4924.5	4736.9	4127.2	3402.8	2613.3	1855.2	1401.8	1219.4	1175.1	1193.4	1193.4
20°	4916.7	4614.5	3871.9	2970.3	2001.0	1287.2	1029.2	964.0	992.7	1050.0	1037.0
22.5°	4875.0	4557.1	3637.3	2514.4	1472.1	953.6	826.0	828.6	872.9	943.2	958.9
25°	4906.3	4429.4	3340.4	2053.2	1073.5	760.8	716.5	734.8	781.7	833.8	844.2
27.5°	4882.8	4338.3	3030.3	1594.6	784.3	654.0	651.4	672.2	693.1	732.2	732.2
30°	4908.9	4254.9	2725.4	1185.5	646.2	599.3	588.9	604.5	625.3	633.1	630.5
32.5°	5005.2	4192.3	2373.7	885.9	570.7	547.2	547.2	547.2	544.6	555.0	557.6
35°	5216.3	4202.8	2063.6	685.3	521.1	502.8	495.1	484.6	479.4	484.6	487.3
37.5°	5445.6	4197.6	1743.1	583.6	484.6	469.0	450.8	435.1	432.5	437.7	429.9
40°	5547.2	4247.1	1446.1	523.7	450.8	432.5	403.9	390.8	393.5	398.6	393.5
42.5°	5685.4	4262.7	1253.3	476.8	419.5	390.8	372.6	357.0	354.4	362.1	359.6
45°	5682.7	4174.1	1050.0	450.8	390.8	359.6	336.1	323.1	323.1	328.3	330.9
47.5°	5849.5	4161.1	901.5	427.3	370.0	338.7	310.1	299.7	297.1	297.1	291.8
50°	6237.7	4343.5	786.9	401.3	344.0	315.2	291.8	278.8	268.3	263.2	260.6
52.5°	6995.9	4911.4	698.3	370.0	315.2	291.8	271.0	260.6	247.5	234.5	231.9
54°	7730.7	5497.8	693.1	344.0	291.8	276.2	257.9	252.8	237.1	218.8	213.7
55°	8061.6	5839.1	711.4	323.1	276.2	265.8	250.2	244.9	229.3	208.4	205.9
57.5°	8335.2	5971.9	700.9	268.3	250.2	247.5	234.5	226.7	208.4	179.8	174.6
60°	6709.3	4515.4	502.8	237.1	229.3	224.1	213.7	208.4	185.0	153.7	151.1
62.5°	4239.2	2597.8	320.5	208.4	200.6	192.8	179.8	174.6	153.7	122.5	114.6
65°	1805.7	1076.1	216.3	185.0	171.9	158.9	148.5	140.7	122.5	91.2	88.6
67.5°	469.0	383.0	179.8	161.5	143.3	125.0	117.2	104.2	83.4	62.6	59.9
70°	211.0	192.8	151.1	135.5	114.6	96.4	86.0	73.0	54.7	41.7	39.1
72.5°	125.0	122.5	114.6	101.6	86.0	73.0	62.6	49.5	36.5	23.4	23.4
75°	78.1	75.6	78.1	70.3	59.9	54.7	46.9	33.9	20.8	10.4	10.4
77.5°	46.9	46.9	46.9	44.3	41.7	41.7	33.9	20.8	10.4	2.6	2.6
80°	36.5	36.5	39.1	36.5	36.5	36.5	28.7	15.7	5.2	0.0	0.0
82.5°	36.5	39.1	44.3	41.7	36.5	31.2	26.1	15.7	5.2	0.0	0.0
85°	10.4	7.8	13.0	18.2	26.1	23.4	18.2	13.0	5.2	0.0	0.0
87.5°	5.2	5.2	5.2	5.2	2.6	2.6	2.6	2.6	2.6	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)