

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: P650927

Luminaire Tested: **GALN-SA5C-840-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650927  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-840-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25245.1 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

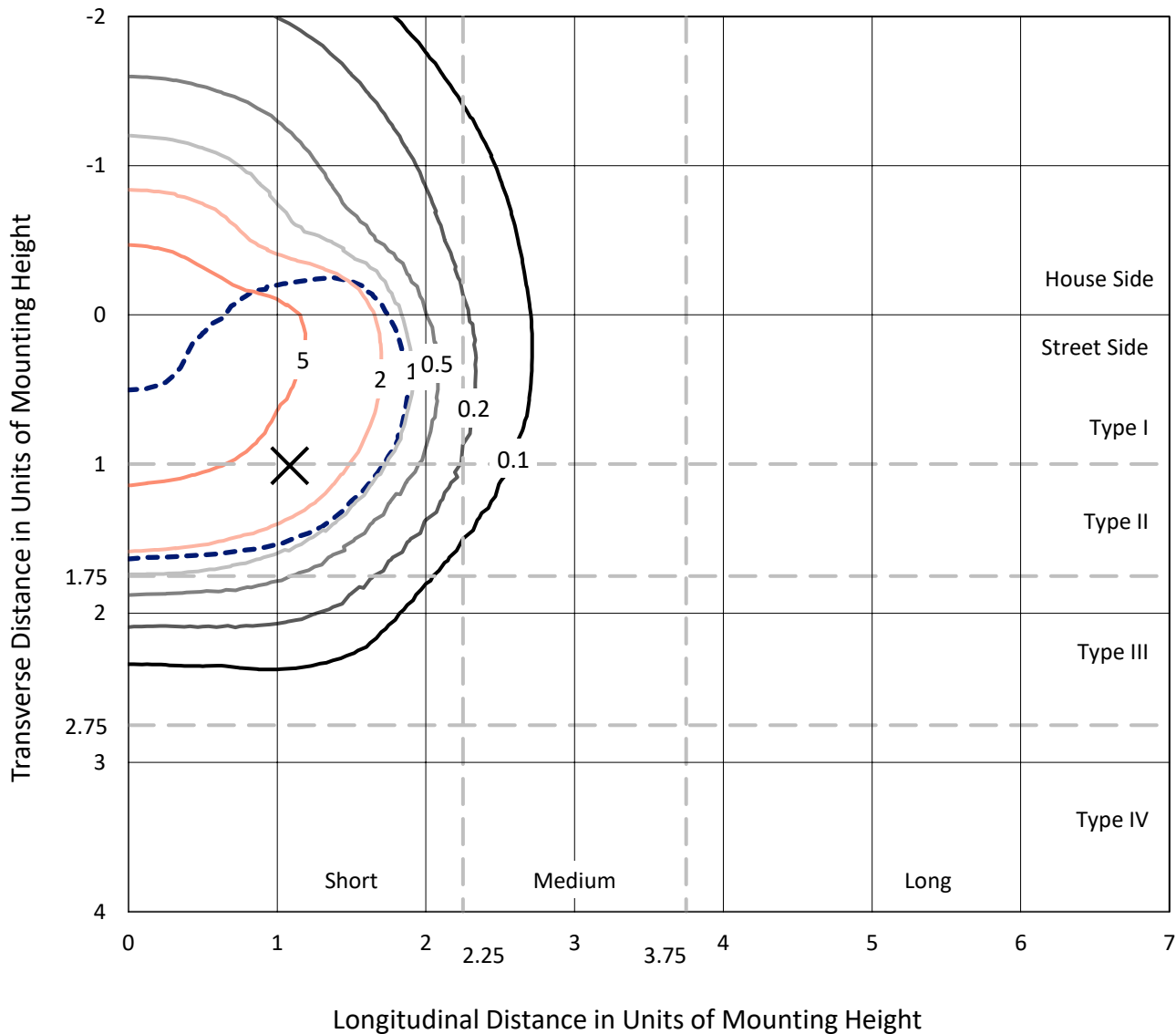
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

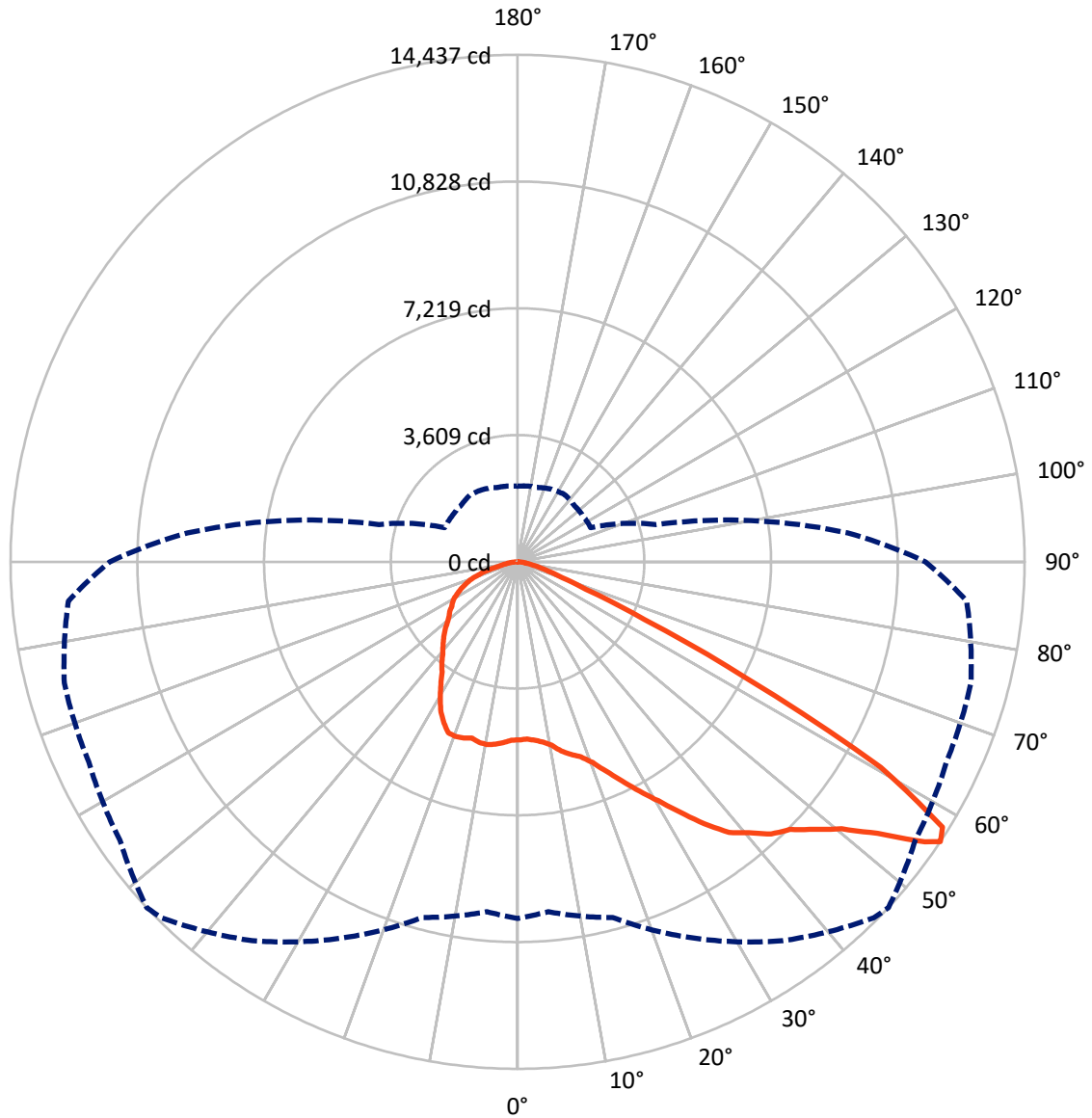
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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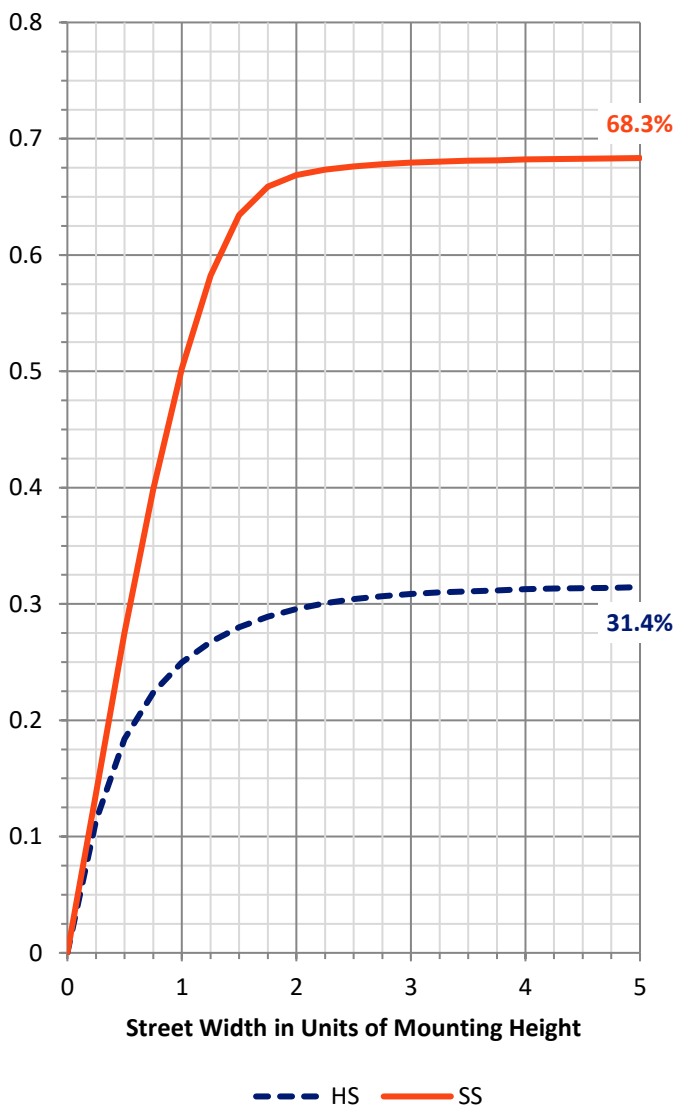
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7999.9	0.0	7999.9
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	17245.3	0.0	17245.3
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	25245.1	0.0	25245.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	494.1	2.0
10°-20°	1558.6	6.2
20°-30°	2755.3	10.9
30°-40°	4138.3	16.4
40°-50°	5679.5	22.5
50°-60°	6766.3	26.8
60°-70°	2895.6	11.5
70°-80°	819.4	3.2
80°-90°	137.9	0.5
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°	25245.1	100.0
0°-180°	25245.1	100.0

**Coefficient of Utilization**

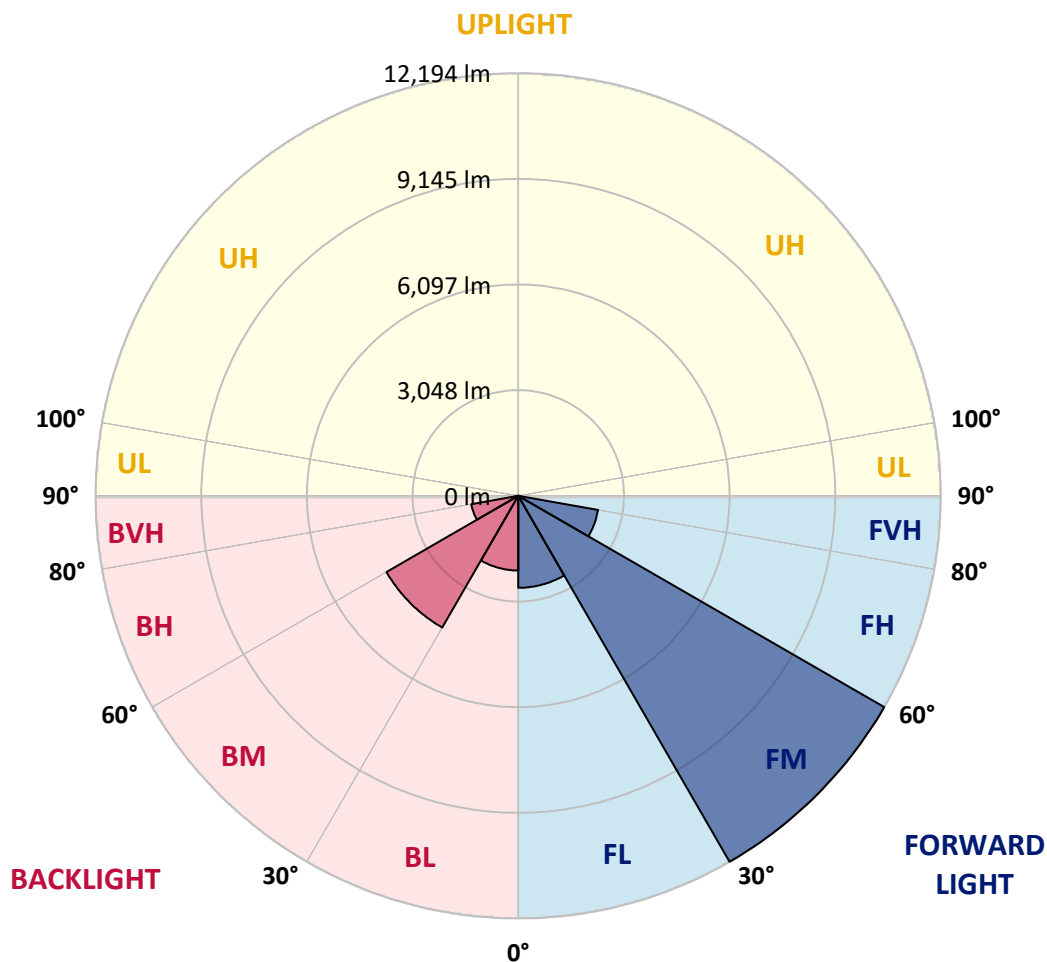


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2654.1	10.5			
FM (30°-60°)	12194.0	48.3			
FH (60°-80°)	2338.6	9.3			G2/5000
FVH (80°-90°)	58.5	0.2			G1/100
BL (0°-30°)	2153.9	8.5	B3/2500		
BM (30°-60°)	4390.2	17.4	B3/5000		
BH (60°-80°)	1376.4	5.5	B3/2500		G3/2500
BVH (80°-90°)	79.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0
2.5°	5051.6	5042.0	5035.6	5087.0	5067.8	5071.0	5051.6	5071.0	5083.8	5054.9	5096.7
5°	5042.0	5071.0	5045.2	5061.3	5103.2	5090.3	5103.2	5141.8	5132.1	5122.5	5109.6
7.5°	5132.1	5135.4	5154.7	5161.1	5174.0	5161.1	5180.5	5215.9	5206.2	5151.5	5157.9
10°	5261.0	5267.4	5270.6	5306.0	5328.6	5331.8	5309.2	5277.0	5273.8	5347.8	5296.4
12.5°	5409.1	5392.9	5431.6	5444.5	5470.2	5499.2	5528.1	5460.5	5502.4	5505.6	5444.5
15°	5624.8	5640.8	5595.8	5595.8	5605.4	5608.6	5689.2	5657.0	5650.5	5615.1	5640.8
17.5°	5946.7	5837.3	5834.0	5788.9	5782.5	5808.3	5837.3	5863.0	5950.0	5879.1	5740.7
20°	6181.8	6207.5	6114.2	6059.4	6069.1	6127.0	6098.1	6214.0	6275.1	6159.2	6024.0
22.5°	6597.1	6510.2	6532.7	6410.4	6420.0	6481.2	6478.0	6597.1	6632.5	6449.0	6252.6
25°	6877.2	6854.7	6874.0	6777.4	6790.3	6838.6	6915.9	7112.3	7054.3	6851.5	6397.5
27.5°	7286.1	7241.0	7224.9	7189.5	7176.7	7305.4	7395.6	7604.8	7563.0	7266.8	6655.1
30°	7704.7	7675.7	7691.8	7546.9	7598.4	7872.1	7897.8	8184.4	8165.1	7643.5	6941.6
32.5°	7994.5	8010.5	8039.5	7959.1	8187.6	8406.6	8493.5	8818.6	8834.8	8290.7	7495.4
35°	8461.3	8406.6	8422.7	8516.1	8622.3	9021.5	9163.2	9378.9	9514.1	8970.0	8026.7
37.5°	8754.3	8812.3	8744.6	8892.7	9169.6	9649.4	9778.1	10000.3	10142.0	9639.7	8751.0
40°	9211.5	9118.1	9166.4	9272.6	9555.9	10180.6	10145.2	10373.8	10418.8	10209.6	9427.2
42.5°	9704.0	9659.1	9591.4	9832.9	10071.1	10525.1	10595.9	10489.7	10718.3	10766.6	10393.1
45°	10293.3	10348.0	10357.7	10364.1	10573.4	10969.4	10872.9	10779.4	11043.5	11394.4	10992.0
47.5°	10840.7	10666.7	10792.3	10966.2	11262.4	11265.6	11378.3	11156.1	11436.3	11748.6	11532.9
50°	11024.2	10940.4	11107.8	11436.3	11893.4	11941.8	11954.6	11639.1	11784.0	12031.9	11719.6
52.5°	10953.4	10924.3	11352.6	11861.3	12531.0	12775.6	12840.1	12450.5	12531.0	12418.3	12131.7
55°	10615.3	10702.1	11133.7	12170.4	13197.4	13954.0	14076.4	13583.8	13071.8	13158.8	12843.2
56°	10151.6	10000.3	10483.2	11819.4	13168.5	14337.2	14437.0	13822.1	13474.3	13361.6	12836.9
57.5°	8612.6	8416.2	9050.5	10634.6	12437.5	14192.3	14266.4	13921.8	13406.7	13178.1	11899.9
60°	5042.0	5138.6	5943.5	7334.4	9594.6	11635.9	11883.8	12135.0	11790.4	10766.6	8857.3
62.5°	2434.1	2372.9	2949.2	4204.9	5846.9	7427.8	7353.7	8058.8	8445.2	7649.9	5592.6
65°	1275.0	1268.6	1609.8	2295.6	3213.2	3902.2	3969.9	4349.7	4881.0	3940.8	2839.7
67.5°	937.0	962.7	1133.3	1613.0	2067.0	2108.9	2099.2	2289.2	2340.7	1980.1	1745.1
70°	734.1	747.0	872.5	1226.7	1539.0	1378.0	1349.0	1371.6	1522.9	1587.3	1510.0
72.5°	531.3	544.1	650.3	827.5	962.7	940.2	959.5	1085.1	1271.8	1339.4	1258.9
75°	354.1	363.8	421.8	505.5	569.9	614.9	650.3	795.2	969.1	1007.8	969.1
77.5°	244.7	254.3	293.0	357.4	363.8	392.8	405.7	473.3	579.5	627.8	602.1
80°	138.4	138.4	157.8	183.5	225.4	264.0	270.5	325.2	373.5	405.7	412.1
82.5°	64.4	67.6	83.7	112.7	148.1	183.5	190.0	225.4	260.8	293.0	302.7
85°	32.2	35.4	48.3	67.6	90.2	109.5	106.2	109.5	115.9	109.5	112.7
87.5°	9.7	9.7	12.9	16.1	12.9	16.1	16.1	19.3	22.5	25.7	29.0
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°	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0
2.5°	5100.0	5109.6	5045.2	5106.4	5083.8	5080.6	5125.7	5119.3	5135.4	5128.9	5090.3
5°	5103.2	5080.6	5148.3	5087.0	5116.1	5177.2	5135.4	5231.9	5183.7	5215.9	5145.1
7.5°	5203.0	5209.4	5196.5	5222.3	5209.4	5238.4	5215.9	5238.4	5199.7	5203.0	5267.4
10°	5289.9	5270.6	5293.2	5261.0	5283.5	5273.8	5222.3	5206.2	5219.1	5203.0	5244.8
12.5°	5450.9	5415.5	5399.4	5360.8	5335.0	5238.4	5157.9	5112.9	5174.0	5183.7	5164.3
15°	5615.1	5618.3	5544.3	5457.3	5296.4	5151.5	5170.8	5186.9	5186.9	5212.7	5164.3
17.5°	5718.1	5718.1	5650.5	5476.7	5312.4	5228.7	5209.4	5157.9	5112.9	5106.4	5103.2
20°	5898.4	5843.7	5689.2	5473.5	5306.0	5267.4	5122.5	5000.2	4906.8	4874.6	4871.3
22.5°	6104.5	5966.1	5750.3	5479.9	5296.4	5241.6	4971.2	4787.6	4620.2	4549.4	4559.1
25°	6294.5	6072.3	5785.7	5450.9	5261.0	4997.0	4694.3	4439.9	4266.1	4208.1	4179.1
27.5°	6426.5	6185.0	5785.7	5476.7	5128.9	4723.2	4414.2	4088.9	3937.6	3899.0	3905.4
30°	6603.5	6326.7	5885.6	5421.9	4864.9	4369.1	3998.9	3786.4	3696.2	3664.0	3686.5
32.5°	7018.9	6696.9	6024.0	5289.9	4552.6	4014.9	3715.5	3596.4	3464.3	3400.0	3377.5
35°	7469.6	7047.8	6159.2	5067.8	4201.6	3693.0	3506.2	3396.7	3239.0	3168.1	3181.0
37.5°	8107.2	7498.6	6168.9	4700.7	3821.8	3512.7	3342.0	3171.4	3042.6	2933.2	2900.9
40°	8966.7	8113.5	6146.4	4314.3	3515.9	3300.2	3174.6	2962.1	2817.2	2740.0	2756.0
42.5°	9723.4	8834.8	6053.0	3876.5	3239.0	3155.3	3013.6	2804.3	2662.7	2582.2	2575.7
45°	10360.9	9366.0	5875.9	3503.0	3007.2	2994.3	2830.0	2669.1	2556.4	2482.4	2514.6
47.5°	10950.1	9794.2	5608.6	3129.5	2794.6	2820.5	2662.7	2562.9	2492.1	2424.4	2421.2
50°	11162.6	9787.8	5373.7	2820.5	2624.0	2611.1	2604.7	2498.4	2424.4	2366.5	2392.2
52.5°	11516.7	9897.3	5119.3	2607.9	2469.5	2472.7	2495.2	2418.0	2334.3	2298.9	2331.0
55°	12025.5	9913.4	4559.1	2360.0	2340.7	2363.2	2363.2	2311.7	2240.9	2211.9	2195.9
56°	11610.2	9433.7	4088.9	2295.6	2276.3	2276.3	2337.5	2279.5	2192.6	2170.0	2150.8
57.5°	10708.6	8264.9	3422.5	2218.4	2189.4	2234.5	2266.7	2205.4	2125.0	2092.7	2112.1
60°	7385.9	5592.6	2572.5	2050.9	2050.9	2125.0	2150.8	2060.6	2025.2	2021.9	1996.2
62.5°	4311.1	3258.3	2012.3	1899.6	1906.0	1967.2	1986.5	1935.1	1890.0	1944.6	1970.5
65°	2286.0	1944.6	1725.7	1738.6	1741.9	1790.2	1873.8	1870.6	1867.4	1883.5	1886.7
67.5°	1654.9	1616.2	1568.0	1555.1	1561.6	1597.0	1680.7	1745.1	1741.9	1703.2	1674.3
70°	1474.6	1419.9	1390.9	1394.1	1368.4	1410.2	1477.8	1519.7	1445.6	1400.5	1381.3
72.5°	1226.7	1210.6	1191.3	1194.5	1143.0	1133.3	1056.0	1056.0	1036.7	1023.8	1046.4
75°	937.0	930.5	940.2	924.0	869.3	811.4	766.3	724.4	660.0	634.3	621.4
77.5°	592.4	611.7	634.3	598.9	576.3	534.5	489.4	447.5	396.0	367.0	367.0
80°	402.4	418.6	434.6	428.2	402.4	363.8	328.4	283.3	247.9	225.4	222.2
82.5°	305.9	318.7	341.3	315.5	289.8	257.6	228.6	196.4	164.2	138.4	138.4
85°	109.5	125.6	138.4	151.3	161.0	164.2	141.6	115.9	93.4	74.1	70.8
87.5°	29.0	32.2	35.4	32.2	32.2	32.2	35.4	32.2	29.0	22.5	22.5
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)