

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: P647028

Luminaire Tested: **GALN-SA6C-835-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647028  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-835-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32370.8 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

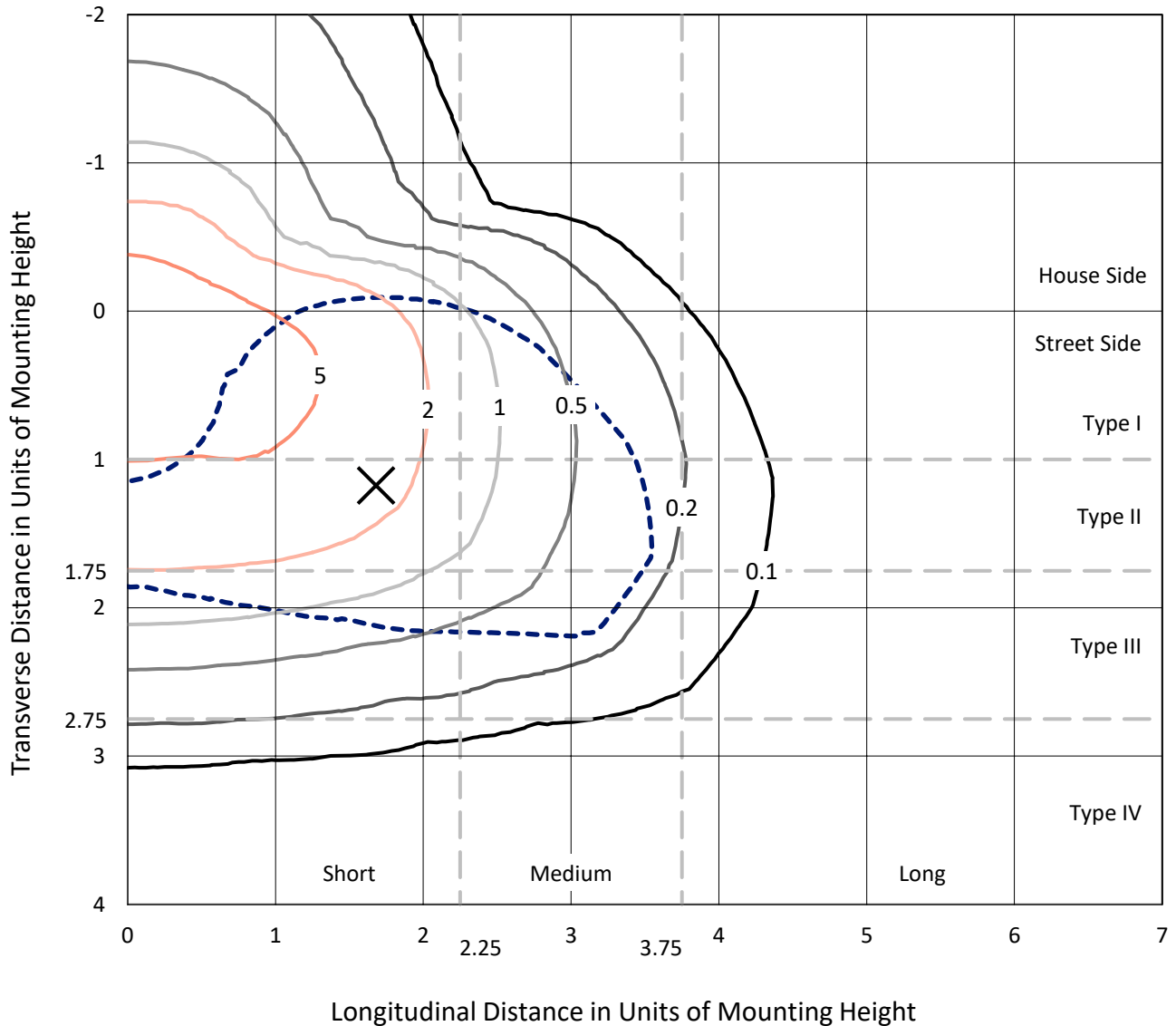
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

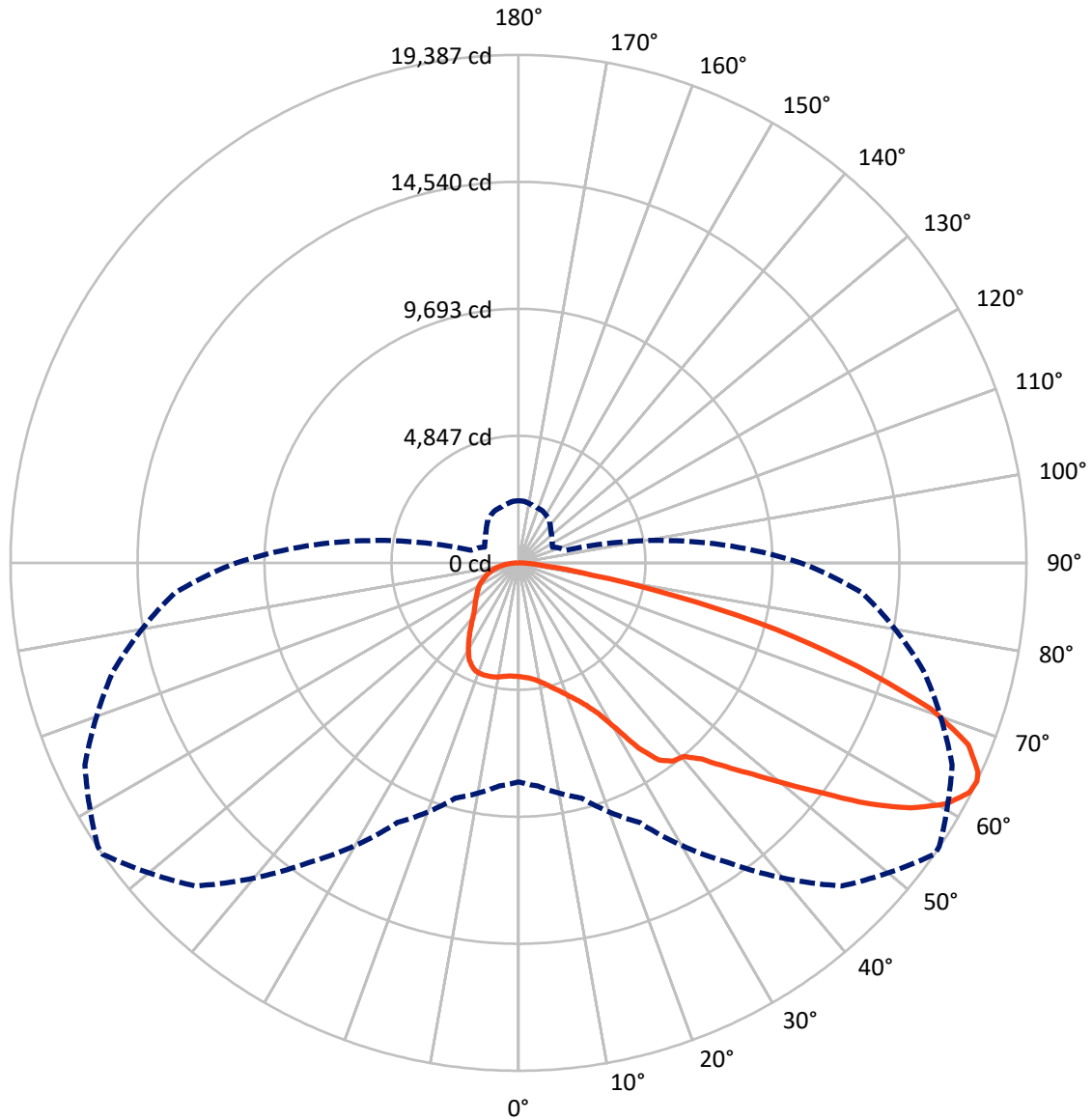
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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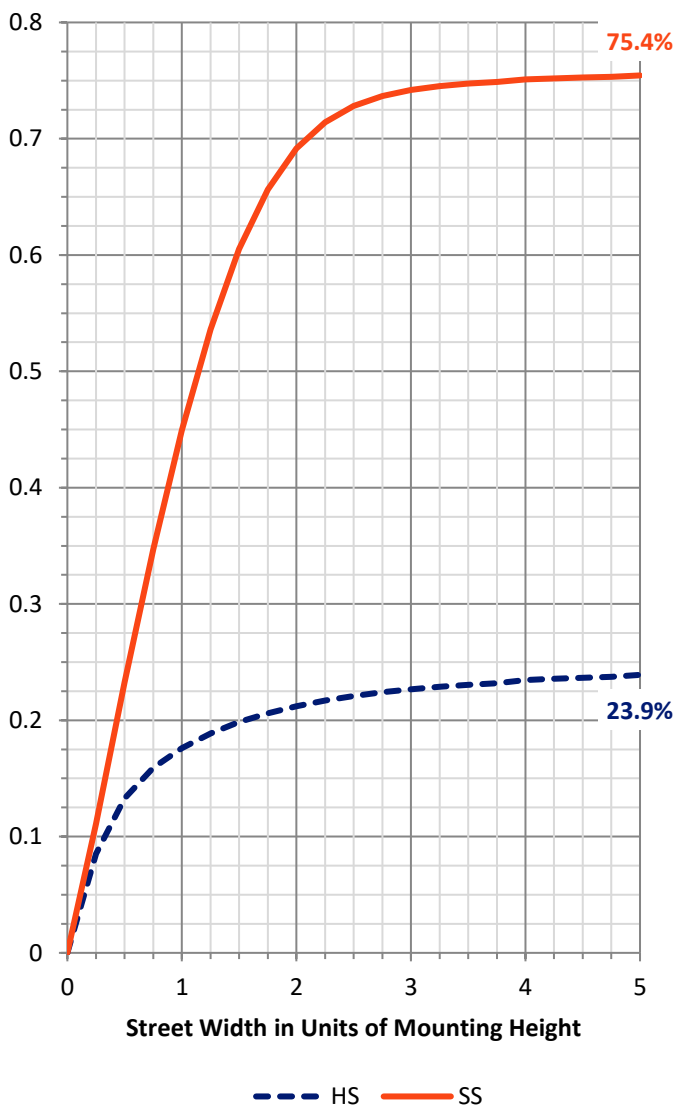
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7863.5	0.0	7863.5
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	24507.3	0.0	24507.3
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	32370.8	0.0	32370.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	422.5	1.3
10°-20°	1333.0	4.1
20°-30°	2373.2	7.3
30°-40°	3651.4	11.3
40°-50°	5176.1	16.0
50°-60°	7492.3	23.1
60°-70°	7753.7	24.0
70°-80°	3631.1	11.2
80°-90°	537.6	1.7
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°	32370.8	100.0
0°-180°	32370.8	100.0

**Coefficient of Utilization**



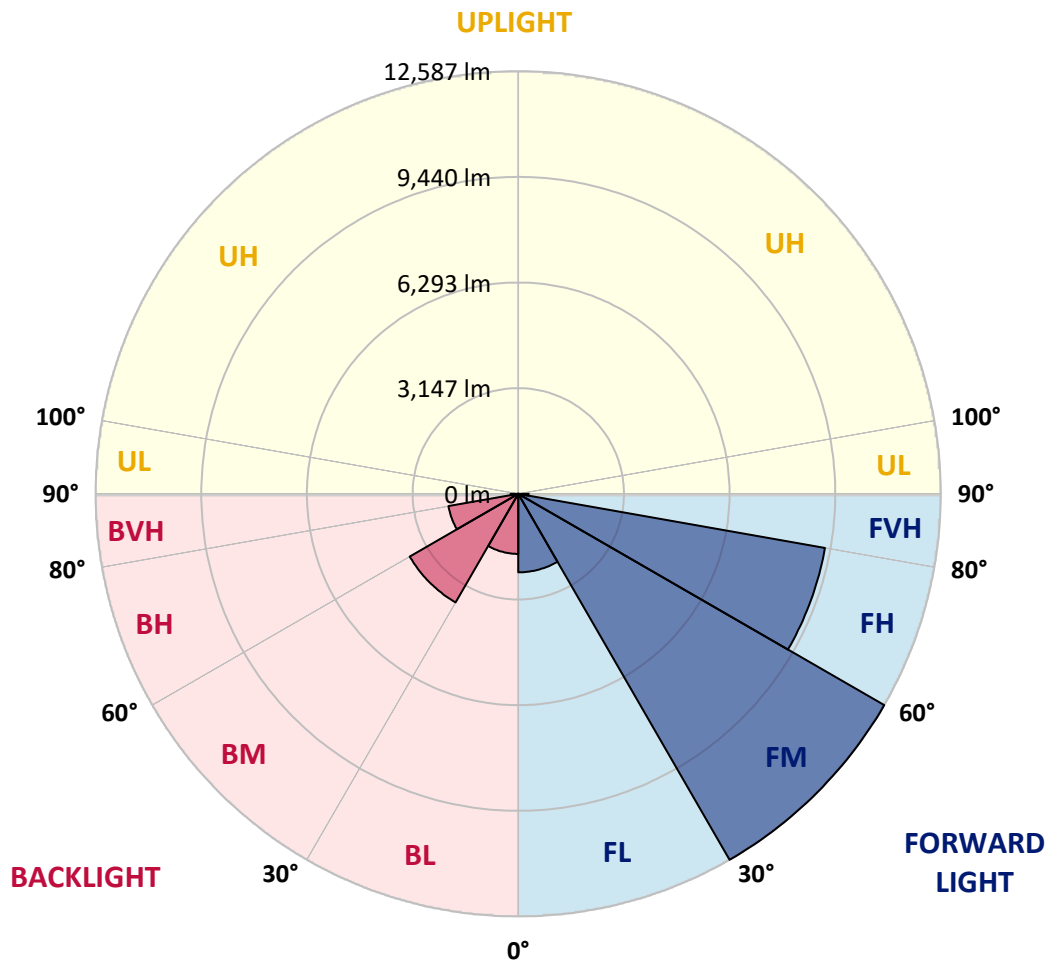
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2337.7	7.2			
FM (30°-60°)	12586.6	38.9			
FH (60°-80°)	9275.2	28.7			G4/12000
FVH (80°-90°)	307.8	1.0			G3/500
BL (0°-30°)	1791.0	5.5	B3/2500		
BM (30°-60°)	3733.1	11.5	B3/5000		
BH (60°-80°)	2109.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	229.8	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4343.1	4343.1	4343.1	4343.1	4343.1	4343.1	4343.1	4343.1	4343.1	4343.1	4343.1
2.5°	4391.9	4390.1	4395.5	4390.1	4393.7	4381.0	4375.6	4379.2	4373.8	4364.8	4348.6
5°	4446.0	4444.2	4446.0	4438.8	4442.4	4435.2	4422.5	4426.2	4417.1	4397.3	4373.8
7.5°	4538.0	4530.8	4530.8	4529.0	4521.8	4511.0	4501.9	4498.3	4489.3	4464.0	4428.0
10°	4657.1	4657.1	4658.9	4644.5	4653.5	4633.7	4624.6	4622.8	4592.2	4559.7	4509.2
12.5°	4814.1	4823.1	4817.7	4810.5	4806.9	4799.7	4769.0	4776.2	4741.9	4686.0	4624.6
15°	5009.0	5023.4	5014.4	5010.8	5001.8	4974.7	4962.1	4956.7	4911.6	4830.4	4749.2
17.5°	5267.0	5249.0	5241.8	5232.8	5194.9	5175.0	5153.4	5149.7	5110.0	5014.4	4888.1
20°	5492.6	5517.9	5503.4	5494.4	5456.5	5418.6	5402.4	5397.0	5362.7	5258.0	5055.9
22.5°	5761.5	5766.9	5772.3	5750.6	5732.6	5703.7	5674.8	5665.8	5653.2	5544.9	5297.7
25°	6048.4	6070.0	6052.0	6030.3	6008.7	6006.9	6033.9	6030.3	6024.9	5920.3	5618.9
27.5°	6515.7	6535.5	6540.9	6517.5	6434.5	6441.7	6503.0	6522.9	6605.9	6432.7	6032.1
30°	6779.1	6798.9	6844.0	6932.5	7064.2	7179.7	7327.6	7372.7	7452.1	7125.5	6522.9
32.5°	6941.5	6948.7	7029.9	7194.1	7589.3	8020.5	8422.9	8439.2	8489.7	8031.4	6972.2
35°	7197.7	7203.1	7268.1	7448.5	7912.3	8630.5	9252.9	9272.8	9231.3	8312.9	7181.5
37.5°	7513.5	7527.9	7569.4	7719.2	8273.2	9141.1	9597.6	9583.1	9215.0	8536.6	7551.4
40°	7973.6	7973.6	7924.9	8127.0	8653.9	9433.3	9718.5	9693.2	9595.7	9184.4	8114.4
42.5°	8379.6	8372.4	8487.9	8625.0	9130.2	9884.5	10225.5	10267.0	10427.6	9998.1	8755.0
45°	8908.3	8940.8	9005.8	9254.7	9940.4	10655.0	11095.3	11135.0	11362.3	10956.3	9503.7
47.5°	9442.4	9453.2	9657.1	9989.1	10943.7	11699.7	12060.5	12125.5	12333.0	12076.8	10310.3
50°	9821.3	9924.2	10250.8	10774.1	11977.6	12973.6	13255.1	13332.7	13699.0	13296.6	11250.4
52.5°	10221.9	10322.9	10721.7	11519.3	13164.9	14276.4	14622.8	14675.1	15055.9	14530.8	12212.1
55°	10564.7	10658.6	11111.5	12179.6	14110.4	15606.2	16234.2	16172.8	16355.1	15481.7	12953.8
57.5°	10620.7	10696.5	11266.7	12601.9	14821.3	16746.6	17647.0	17683.1	17471.9	16192.7	13565.5
60°	10187.6	10342.8	10997.8	12556.8	15140.7	17540.5	18700.8	18726.0	18127.0	16557.2	13809.1
62.5°	9420.7	9404.5	10196.6	11831.4	14693.2	17721.0	19321.5	19294.5	18383.2	16382.1	13572.7
64°	8361.6	8556.5	9296.2	10940.1	13971.5	17443.1	19386.5	19372.0	18260.5	16017.6	13170.3
65°	7715.6	7704.8	8435.6	10211.1	13253.3	17024.5	19271.0	19251.1	18004.3	15691.0	12858.1
67.5°	5570.2	5595.4	6317.2	7879.8	10774.1	15387.9	18518.5	18444.5	16993.8	14608.4	11670.8
70°	3374.3	3388.7	3955.2	5227.3	7733.6	12439.5	16692.5	16696.1	15447.4	12991.7	9933.2
72.5°	1777.3	1815.2	2042.6	2968.2	4696.8	8727.9	13542.0	13863.2	13262.3	11088.0	7847.3
75°	988.8	994.3	1154.8	1463.3	2396.2	4884.5	10178.6	10270.6	10499.8	8924.6	5803.0
77.5°	754.3	765.1	815.6	945.5	1304.6	2264.5	6160.2	6622.1	7399.8	6292.0	3311.1
80°	611.7	622.5	665.8	743.4	867.9	1073.6	2861.8	3110.8	3960.6	2793.2	1292.0
82.5°	476.4	469.2	525.1	575.6	631.6	635.2	1174.7	1299.2	1613.1	1201.7	559.4
85°	353.7	353.7	398.8	388.0	407.8	371.7	517.9	572.0	646.0	510.7	259.8
87.5°	140.7	155.2	261.6	234.6	182.3	146.2	191.3	202.1	223.8	200.3	108.3
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°	4343.1	4343.1	4343.1	4343.1	4343.1	4343.1	4343.1	4343.1	4343.1	4343.1	4343.1
2.5°	4350.4	4355.8	4343.1	4334.1	4330.5	4325.1	4319.7	4321.5	4328.7	4335.9	4334.1
5°	4372.0	4373.8	4352.2	4341.3	4334.1	4326.9	4326.9	4332.3	4346.8	4357.6	4357.6
7.5°	4426.2	4426.2	4395.5	4375.6	4364.8	4352.2	4348.6	4350.4	4361.2	4375.6	4377.4
10°	4511.0	4503.7	4464.0	4433.4	4413.5	4382.8	4355.8	4341.3	4346.8	4355.8	4355.8
12.5°	4613.8	4594.0	4543.4	4501.9	4453.2	4395.5	4339.5	4310.7	4308.9	4317.9	4314.3
15°	4723.9	4702.2	4631.9	4556.1	4471.3	4386.5	4319.7	4278.2	4245.7	4236.7	4256.5
17.5°	4852.0	4806.9	4709.5	4604.8	4478.5	4368.4	4263.8	4178.9	4121.2	4105.0	4110.4
20°	5007.2	4947.6	4815.9	4651.7	4473.1	4303.5	4141.1	4027.4	3933.6	3904.7	3908.3
22.5°	5221.9	5119.1	4926.0	4675.2	4428.0	4180.8	3955.2	3807.3	3693.6	3648.5	3675.6
25°	5465.5	5353.6	5030.6	4669.8	4310.7	3984.1	3735.1	3542.1	3439.2	3372.4	3386.9
27.5°	5801.2	5602.7	5142.5	4621.0	4142.9	3744.1	3455.5	3273.2	3179.4	3145.1	3161.3
30°	6230.6	5925.7	5263.4	4489.3	3877.7	3441.0	3174.0	3054.9	2998.9	2955.6	2970.1
32.5°	6540.9	6153.0	5290.5	4267.4	3590.8	3164.9	2982.7	2894.3	2832.9	2791.4	2800.4
35°	6762.8	6346.1	5277.9	3994.9	3291.2	2937.6	2831.1	2758.9	2659.7	2569.5	2553.2
37.5°	7060.6	6587.8	5185.8	3697.2	2995.3	2784.2	2708.4	2574.9	2432.3	2311.4	2306.0
40°	7517.1	6871.1	4989.1	3347.2	2742.7	2670.5	2578.5	2405.3	2251.9	2154.4	2147.2
42.5°	7988.1	7132.8	4722.1	2979.1	2535.2	2551.4	2439.5	2268.1	2174.3	2111.1	2103.9
45°	8563.7	7416.1	4433.4	2659.7	2381.8	2439.5	2318.6	2219.4	2163.5	2122.0	2111.1
47.5°	9186.2	7706.6	4108.6	2372.8	2251.9	2336.7	2268.1	2223.0	2192.3	2163.5	2150.8
50°	9857.4	8031.4	3803.7	2141.8	2134.6	2230.2	2262.7	2246.5	2228.4	2219.4	2208.6
52.5°	10593.6	8363.4	3547.5	1979.4	2031.7	2154.4	2264.5	2277.1	2277.1	2271.7	2264.5
55°	11091.6	8594.4	3287.6	1847.7	1927.1	2093.1	2260.9	2309.6	2327.7	2320.4	2313.2
57.5°	11459.8	8720.7	2961.0	1734.0	1838.7	2033.5	2241.0	2313.2	2331.3	2340.3	2336.7
60°	11535.5	8603.4	2533.4	1614.9	1743.0	1946.9	2168.9	2259.1	2282.5	2338.5	2343.9
62.5°	11194.5	8242.5	2107.5	1497.6	1625.7	1815.2	2071.4	2197.7	2244.7	2331.3	2340.3
64°	10775.9	7838.3	1871.1	1423.7	1549.9	1741.2	2022.7	2181.5	2242.9	2358.3	2365.6
65°	10469.1	7544.2	1723.2	1376.7	1501.2	1692.5	1995.6	2186.9	2259.1	2399.8	2410.7
67.5°	9339.5	6531.9	1425.5	1266.7	1385.8	1609.5	2001.1	2232.0	2255.5	2416.1	2414.3
70°	7728.2	5200.3	1194.5	1165.7	1273.9	1542.7	1979.4	2159.8	2161.6	2268.1	2242.9
72.5°	5786.7	3843.4	1035.8	1061.0	1149.4	1384.0	1869.3	2062.4	2031.7	2046.2	2020.9
75°	3975.1	2542.4	891.4	949.1	1019.5	1223.4	1714.1	1872.9	1824.2	1806.2	1788.1
77.5°	2122.0	1405.6	741.6	839.1	886.0	1057.4	1495.8	1649.2	1598.7	1528.3	1504.8
80°	858.9	662.2	597.3	694.7	721.8	851.7	1245.0	1340.7	1302.8	1180.1	1140.4
82.5°	431.3	397.0	469.2	546.8	548.6	608.1	925.7	1015.9	931.1	781.3	747.0
85°	225.6	232.8	323.0	384.4	339.2	328.4	555.8	615.3	564.8	490.8	442.1
87.5°	81.2	93.8	169.6	167.8	119.1	63.2	122.7	59.5	32.5	19.8	25.3
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)