

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: P652473

Luminaire Tested: **GALN-SA6B-840-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652473  
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-SA6B-840-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28140.7 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

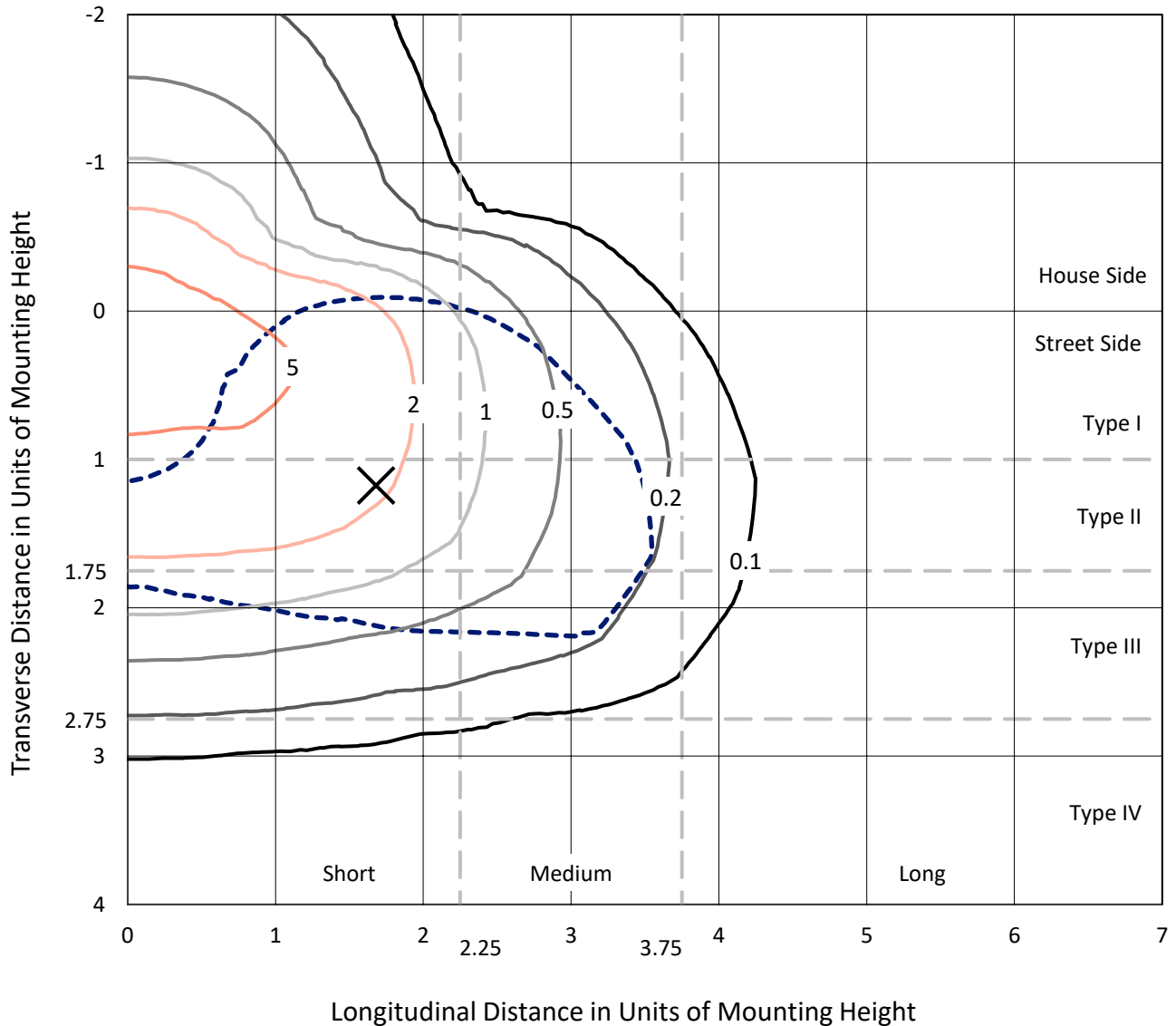
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

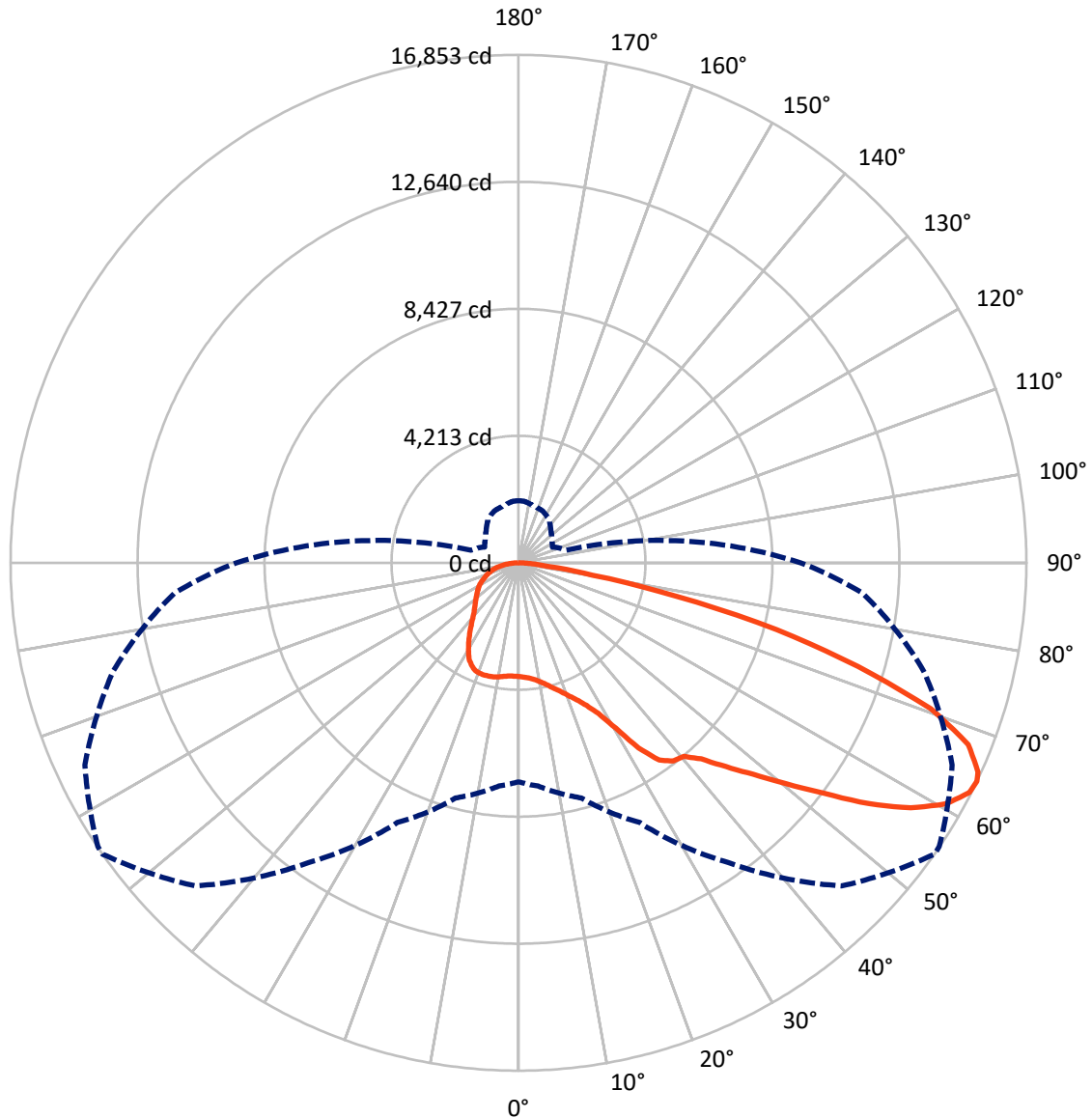
✕ Max cd  
 - - - 1/2 Max cd



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

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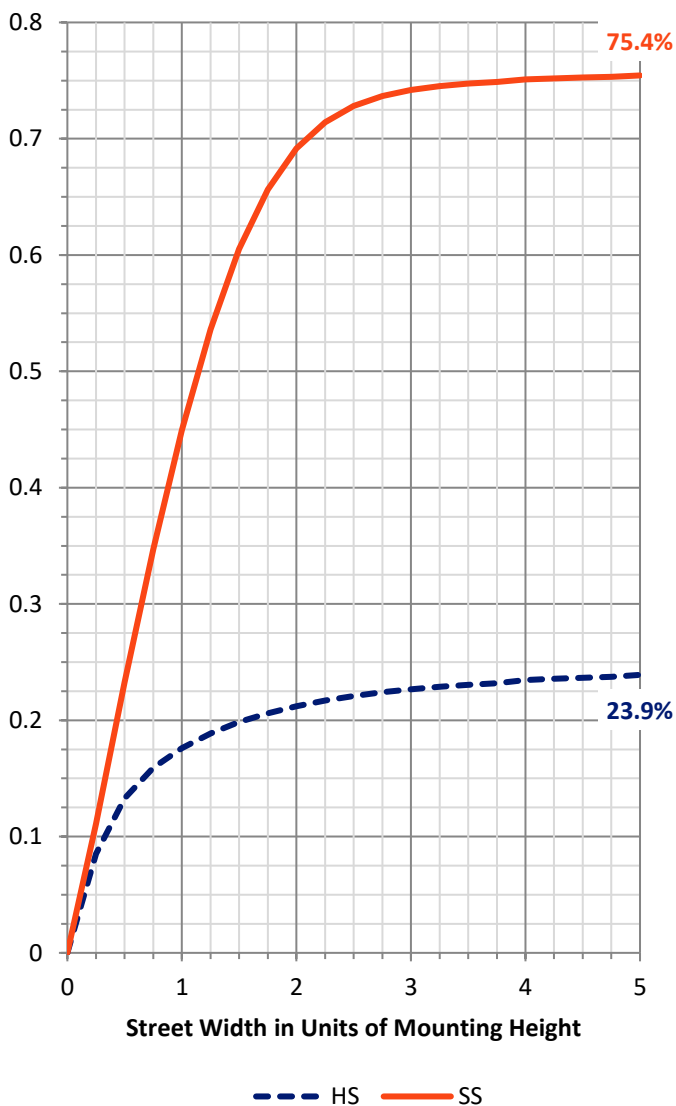
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6835.9	0.0	6835.9
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	21304.8	0.0	21304.8
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	28140.7	0.0	28140.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	367.3	1.3
10°-20°	1158.8	4.1
20°-30°	2063.1	7.3
30°-40°	3174.2	11.3
40°-50°	4499.7	16.0
50°-60°	6513.2	23.1
60°-70°	6740.5	24.0
70°-80°	3156.6	11.2
80°-90°	467.3	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°	28140.7	100.0
0°-180°	28140.7	100.0

**Coefficient of Utilization**

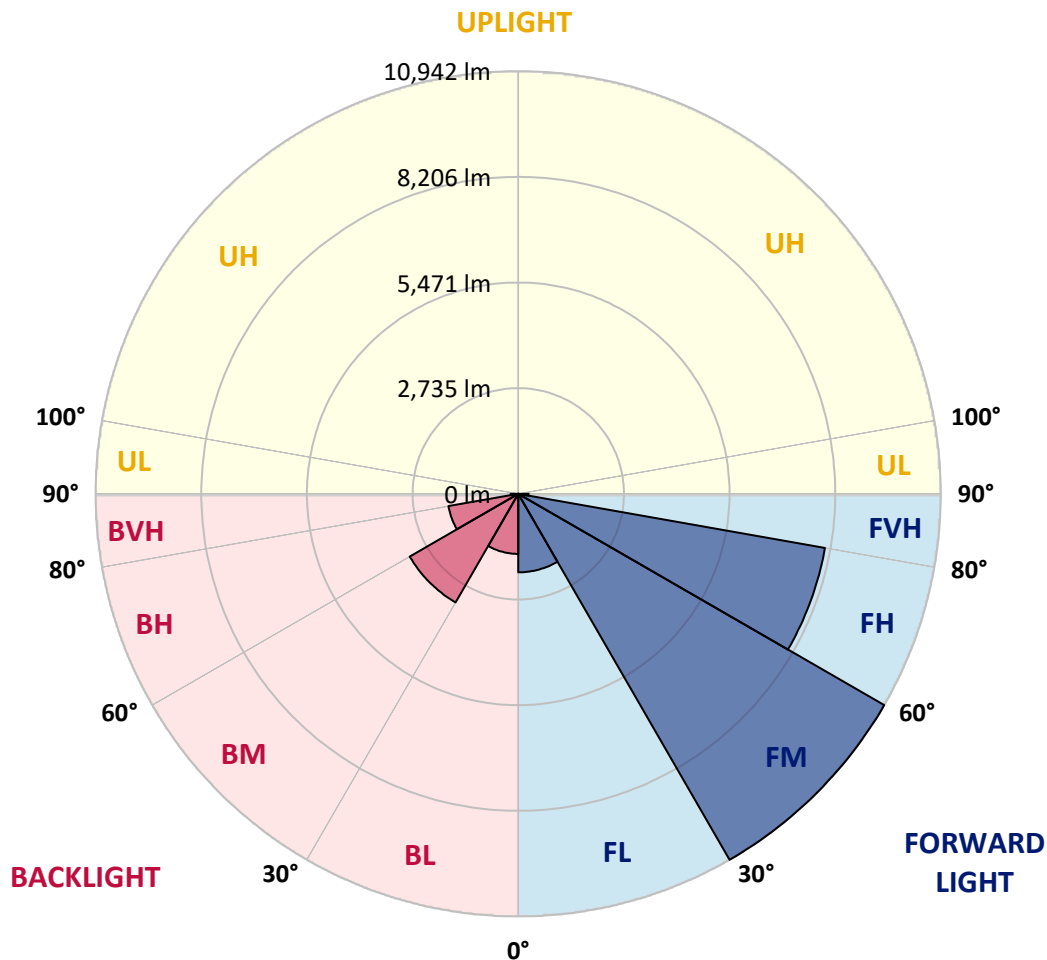


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2032.2	7.2			
FM (30°-60°)	10941.9	38.9			
FH (60°-80°)	8063.1	28.7			G4/12000
FVH (80°-90°)	267.6	1.0			G3/500
BL (0°-30°)	1557.0	5.5	B3/2500		
BM (30°-60°)	3245.3	11.5	B3/5000		
BH (60°-80°)	1833.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	199.7	0.7			G2/225
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°	3775.7	3775.7	3775.7	3775.7	3775.7	3775.7	3775.7	3775.7	3775.7	3775.7	3775.7
2.5°	3818.0	3816.5	3821.1	3816.5	3819.6	3808.6	3803.8	3807.0	3802.3	3794.4	3780.4
5°	3865.1	3863.5	3865.1	3858.8	3861.9	3855.6	3844.6	3847.8	3839.9	3822.7	3802.3
7.5°	3945.0	3938.7	3938.7	3937.2	3930.9	3921.5	3913.7	3910.6	3902.7	3880.7	3849.3
10°	4048.6	4048.6	4050.2	4037.6	4045.5	4028.1	4020.3	4018.8	3992.1	3963.9	3920.0
12.5°	4185.1	4192.9	4188.2	4181.9	4178.8	4172.5	4145.8	4152.1	4122.3	4073.6	4020.3
15°	4354.4	4367.0	4359.2	4356.0	4348.1	4324.7	4313.7	4308.9	4269.8	4199.2	4128.6
17.5°	4578.7	4563.1	4556.8	4549.0	4516.0	4498.8	4479.9	4476.8	4442.3	4359.2	4249.3
20°	4774.9	4796.8	4784.3	4776.4	4743.5	4710.5	4696.4	4691.7	4661.9	4570.9	4395.2
22.5°	5008.6	5013.3	5018.0	4999.2	4983.4	4958.4	4933.2	4925.4	4914.5	4820.4	4605.4
25°	5257.9	5276.8	5261.1	5242.3	5223.5	5221.9	5245.4	5242.3	5237.6	5146.6	4884.6
27.5°	5664.2	5681.5	5686.2	5665.8	5593.7	5599.9	5653.3	5670.5	5742.7	5592.1	5243.9
30°	5893.2	5910.5	5949.7	6026.6	6141.1	6241.5	6370.1	6409.3	6478.3	6194.4	5670.5
32.5°	6034.4	6040.7	6111.3	6254.0	6597.6	6972.5	7322.3	7336.4	7380.3	6981.9	6061.1
35°	6257.1	6261.8	6318.3	6475.2	6878.4	7502.6	8043.8	8061.1	8025.0	7226.5	6243.1
37.5°	6531.7	6544.2	6580.3	6710.5	7192.1	7946.5	8343.4	8330.9	8010.9	7421.1	6564.6
40°	6931.7	6931.7	6889.3	7065.0	7523.0	8200.7	8448.5	8426.6	8341.9	7984.2	7054.1
42.5°	7284.6	7278.4	7378.7	7497.9	7937.1	8592.8	8889.3	8925.4	9065.0	8691.7	7610.9
45°	7744.2	7772.4	7828.9	8045.3	8641.4	9262.6	9645.3	9679.8	9877.5	9524.6	8261.8
47.5°	8208.5	8217.9	8395.2	8683.8	9513.6	10170.8	10484.6	10541.0	10721.4	10498.7	8963.0
50°	8537.9	8627.3	8911.2	9366.1	10412.4	11278.2	11523.0	11590.4	11908.8	11559.0	9780.2
52.5°	8886.2	8974.0	9320.6	10014.0	11444.6	12410.8	12712.0	12757.5	13088.5	12632.0	10616.3
55°	9184.2	9265.7	9659.5	10588.1	12266.5	13566.8	14112.7	14059.4	14217.9	13458.6	11261.0
57.5°	9232.8	9298.7	9794.4	10955.1	12884.5	14558.2	15340.9	15372.3	15188.8	14076.7	11792.8
60°	8856.3	8991.2	9560.7	10915.9	13162.2	15248.4	16257.0	16279.0	15758.2	14393.5	12004.5
62.5°	8189.7	8175.5	8864.2	10285.3	12773.2	15405.3	16796.6	16773.1	15980.9	14241.3	11799.1
64°	7268.9	7438.3	8081.4	9510.4	12145.7	15163.7	16853.1	16840.5	15874.3	13924.5	11449.3
65°	6707.4	6698.0	7333.3	8876.8	11521.4	14799.7	16752.7	16735.5	15651.5	13640.6	11177.9
67.5°	4842.3	4864.3	5491.6	6850.1	9366.1	13377.0	16098.6	16034.3	14773.1	12699.4	10145.7
70°	2933.3	2945.9	3438.3	4544.3	6723.0	10814.0	14511.2	14514.3	13428.8	11294.0	8635.1
72.5°	1545.1	1578.1	1775.7	2580.4	4083.1	7587.3	11772.4	12051.6	11529.3	9639.0	6821.9
75°	859.6	864.3	1003.9	1272.2	2083.1	4246.2	8848.5	8928.5	9127.7	7758.3	5044.7
77.5°	655.6	665.1	709.0	821.9	1134.1	1968.6	5355.2	5756.8	6432.8	5469.7	2878.4
80°	531.8	541.2	578.8	646.2	754.5	933.3	2487.8	2704.2	3443.1	2428.2	1123.2
82.5°	414.1	407.8	456.5	500.4	549.0	552.1	1021.1	1129.4	1402.4	1044.7	486.3
85°	307.5	307.5	346.7	337.2	354.5	323.1	450.2	497.3	561.5	443.9	225.9
87.5°	122.4	134.9	227.4	203.9	158.4	127.1	166.3	175.7	194.5	174.1	94.1
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°	3775.7	3775.7	3775.7	3775.7	3775.7	3775.7	3775.7	3775.7	3775.7	3775.7	3775.7
2.5°	3781.9	3786.6	3775.7	3767.8	3764.7	3759.9	3755.2	3756.8	3763.1	3769.4	3767.8
5°	3800.7	3802.3	3783.5	3774.1	3767.8	3761.5	3761.5	3766.3	3778.8	3788.2	3788.2
7.5°	3847.8	3847.8	3821.1	3803.8	3794.4	3783.5	3780.4	3781.9	3791.3	3803.8	3805.4
10°	3921.5	3915.3	3880.7	3854.1	3836.8	3810.2	3786.6	3774.1	3778.8	3786.6	3786.6
12.5°	4010.9	3993.7	3949.8	3913.7	3871.3	3821.1	3772.5	3747.4	3745.8	3753.6	3750.5
15°	4106.6	4087.8	4026.6	3960.7	3887.0	3813.3	3755.2	3719.2	3690.9	3683.1	3700.3
17.5°	4218.0	4178.8	4094.1	4003.1	3893.2	3797.6	3706.6	3632.9	3582.7	3568.6	3573.2
20°	4352.8	4301.1	4186.6	4043.9	3888.5	3741.1	3600.0	3501.2	3419.6	3394.4	3397.6
22.5°	4539.5	4450.2	4282.3	4064.2	3849.3	3634.5	3438.3	3309.8	3210.9	3171.7	3195.2
25°	4751.3	4654.0	4373.3	4059.6	3747.4	3463.5	3247.0	3079.2	2989.8	2931.7	2944.3
27.5°	5043.1	4870.5	4470.5	4017.2	3601.5	3254.8	3003.9	2845.4	2763.9	2734.1	2748.2
30°	5416.4	5151.3	4575.6	3902.7	3370.9	2991.4	2759.2	2655.6	2607.0	2569.3	2582.0
32.5°	5686.2	5348.9	4599.2	3709.7	3121.5	2751.3	2592.9	2516.0	2462.7	2426.6	2434.4
35°	5879.1	5516.8	4588.2	3472.9	2861.2	2553.7	2461.1	2398.4	2312.2	2233.7	2219.6
37.5°	6138.0	5727.0	4508.2	3214.0	2603.9	2420.4	2354.5	2238.4	2114.4	2009.4	2004.7
40°	6534.8	5973.3	4337.2	2909.8	2384.3	2321.5	2241.5	2091.0	1957.6	1872.9	1866.6
42.5°	6944.2	6200.7	4105.0	2589.8	2203.9	2218.0	2120.7	1971.7	1890.1	1835.2	1829.0
45°	7444.6	6446.9	3854.1	2312.2	2070.5	2120.7	2015.6	1929.4	1880.7	1844.6	1835.2
47.5°	7985.8	6699.5	3571.7	2062.7	1957.6	2031.4	1971.7	1932.5	1905.9	1880.7	1869.8
50°	8569.3	6981.9	3306.6	1862.0	1855.7	1938.8	1967.0	1952.9	1937.2	1929.4	1920.0
52.5°	9209.3	7270.4	3083.9	1720.8	1766.3	1872.9	1968.6	1979.5	1979.5	1974.8	1968.6
55°	9642.2	7471.3	2858.0	1606.2	1675.3	1819.6	1965.5	2007.8	2023.5	2017.2	2010.9
57.5°	9962.2	7581.1	2574.0	1507.4	1598.4	1767.8	1948.2	2010.9	2026.6	2034.5	2031.4
60°	10028.1	7479.1	2202.3	1403.9	1515.3	1692.5	1885.4	1963.9	1984.3	2032.9	2037.7
62.5°	9731.6	7165.4	1832.1	1302.0	1413.3	1578.1	1800.7	1910.6	1951.4	2026.6	2034.5
64°	9367.7	6814.0	1626.7	1237.6	1347.5	1513.7	1758.4	1896.5	1949.8	2050.2	2056.4
65°	9101.0	6558.4	1498.0	1196.8	1305.1	1471.3	1734.9	1901.2	1963.9	2086.3	2095.7
67.5°	8119.1	5678.3	1239.2	1101.1	1204.6	1399.2	1739.6	1940.4	1960.8	2100.4	2098.8
70°	6718.3	4520.7	1038.4	1013.3	1107.4	1341.1	1720.8	1877.6	1879.2	1971.7	1949.8
72.5°	5030.5	3341.1	900.4	922.3	999.2	1203.1	1625.1	1792.9	1766.3	1778.8	1756.8
75°	3455.7	2210.1	774.9	825.1	886.2	1063.5	1490.2	1628.2	1585.9	1570.1	1554.5
77.5°	1844.6	1222.0	644.7	729.4	770.2	919.2	1300.4	1433.7	1389.8	1328.6	1308.2
80°	746.6	575.7	519.2	603.9	627.5	740.4	1082.4	1165.5	1132.6	1025.9	991.4
82.5°	374.9	345.1	407.8	475.2	476.8	528.7	804.7	883.1	809.4	679.2	649.4
85°	196.0	202.3	280.8	334.1	294.9	285.5	483.2	534.9	491.0	426.6	384.3
87.5°	70.6	81.6	147.4	145.9	103.5	54.9	106.6	51.8	28.3	17.2	22.0
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)