

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: P453576

Luminaire Tested: **GALN-SA4C-760-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453576
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-SA4C-760-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27580 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

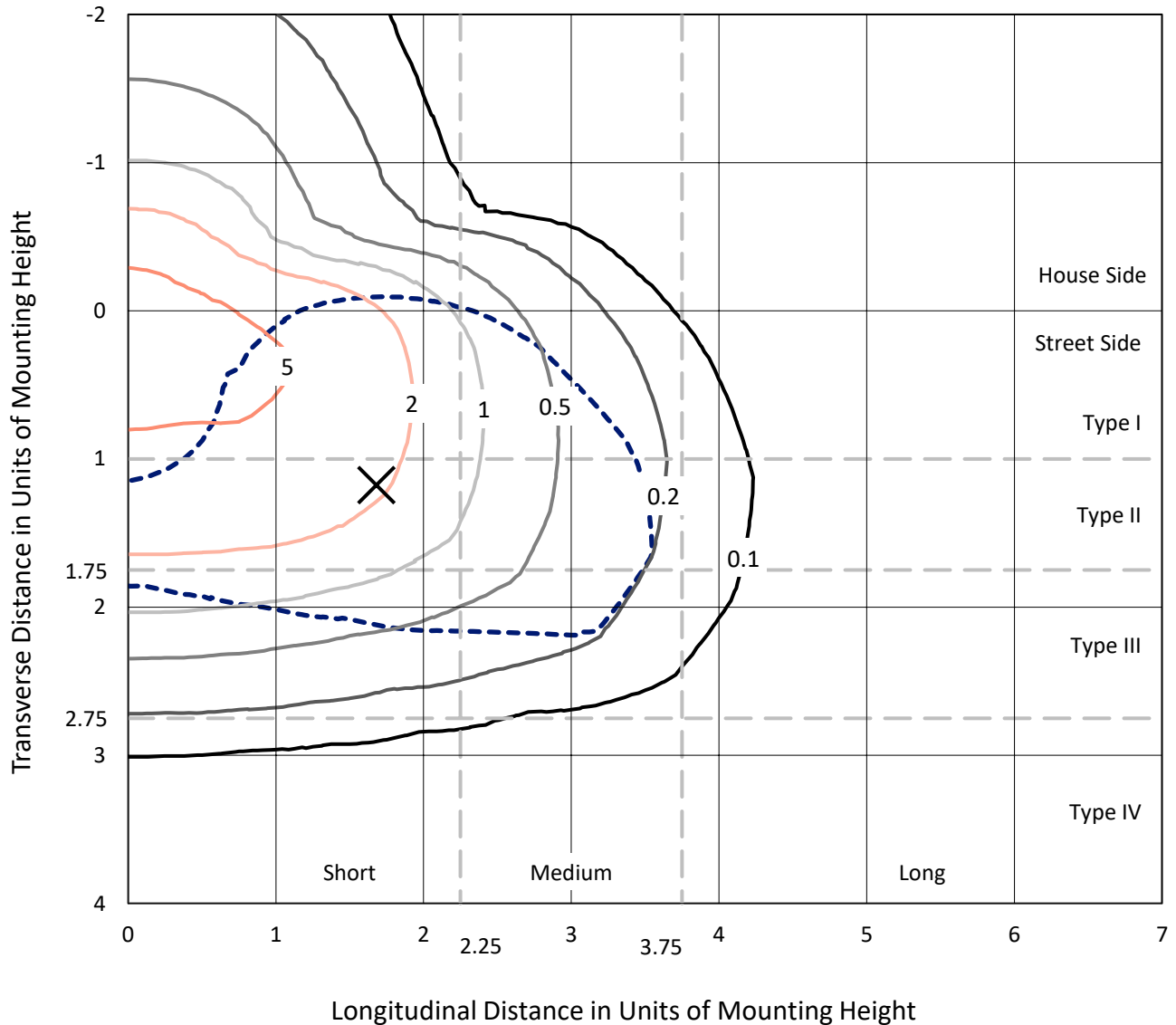
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

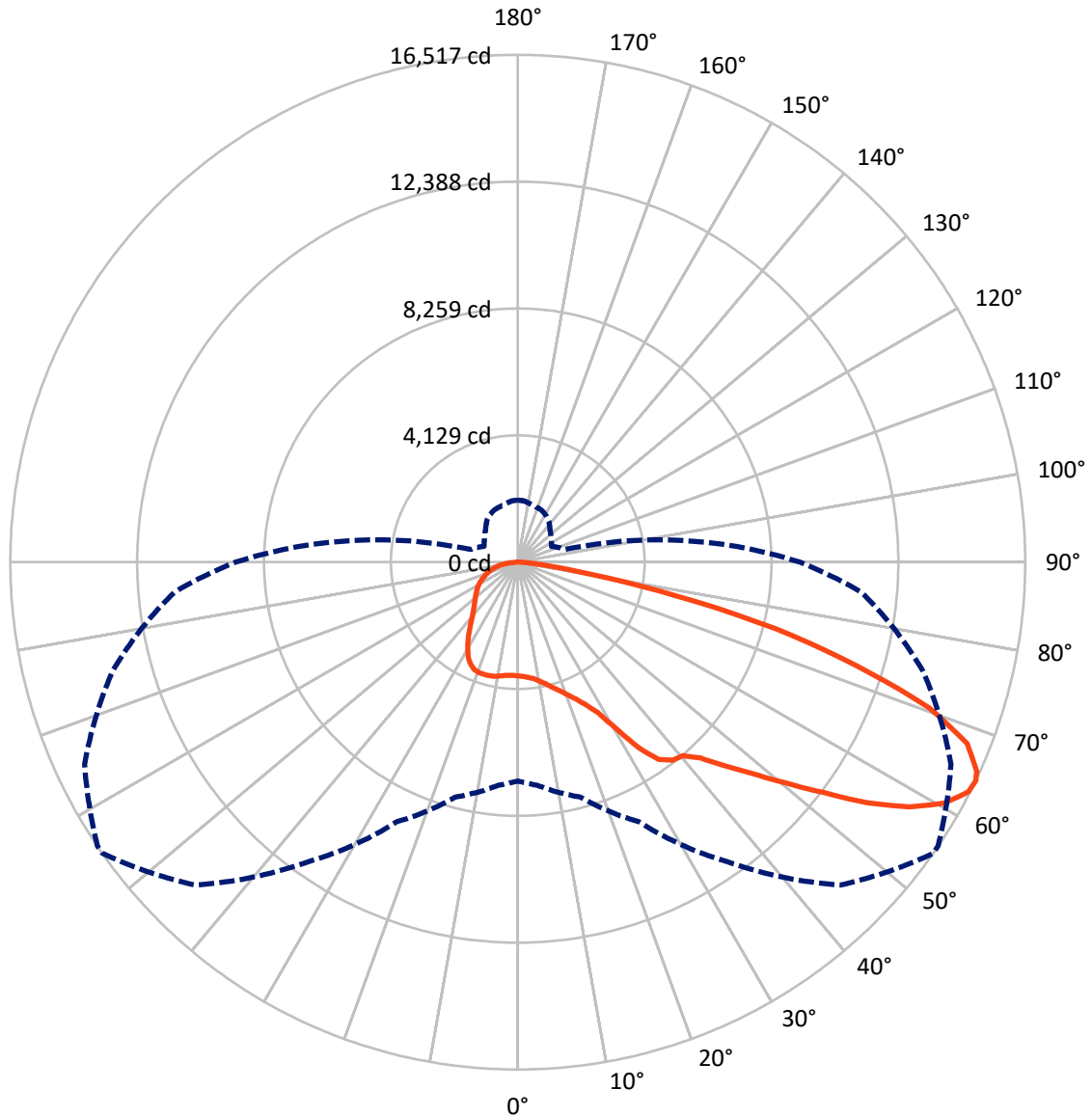
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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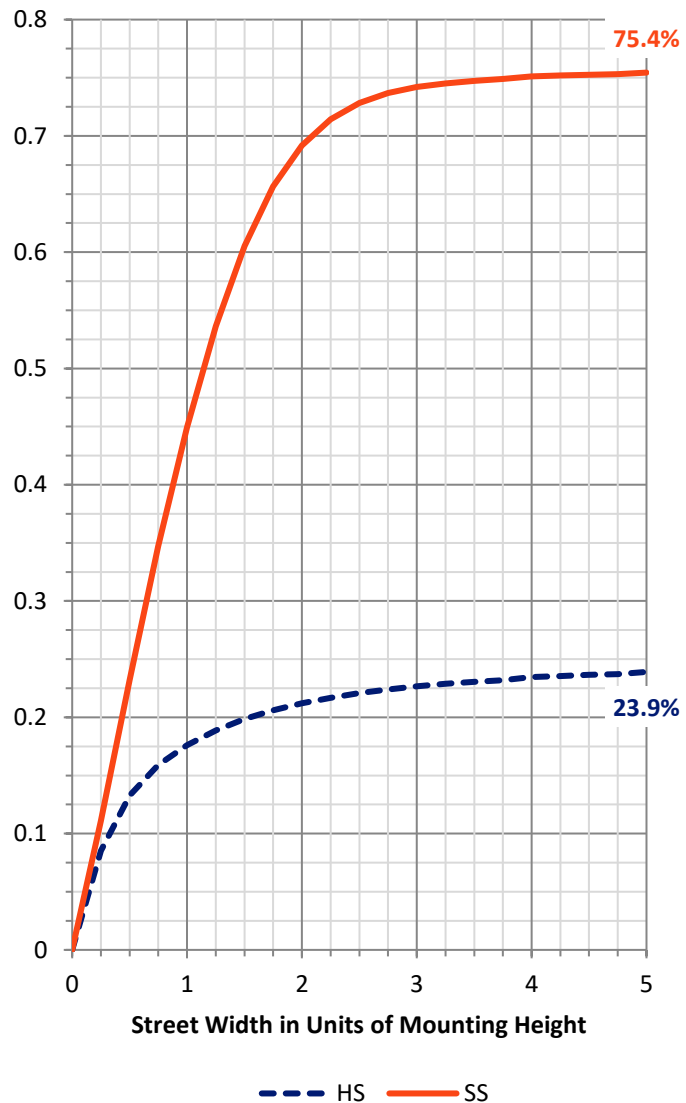
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6699.7	0.0	6699.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	20880.3	0.0	20880.3
	% Fixture	75.7	0.0	75.7
Total	Lumens	27580.0	0.0	27580.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.0	1.3
10°-20°	1135.8	4.1
20°-30°	2022.0	7.3
30°-40°	3111.0	11.3
40°-50°	4410.1	16.0
50°-60°	6383.4	23.1
60°-70°	6606.2	24.0
70°-80°	3093.7	11.2
80°-90°	458.0	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°	27580.0	100.0
0°-180°	27580.0	100.0



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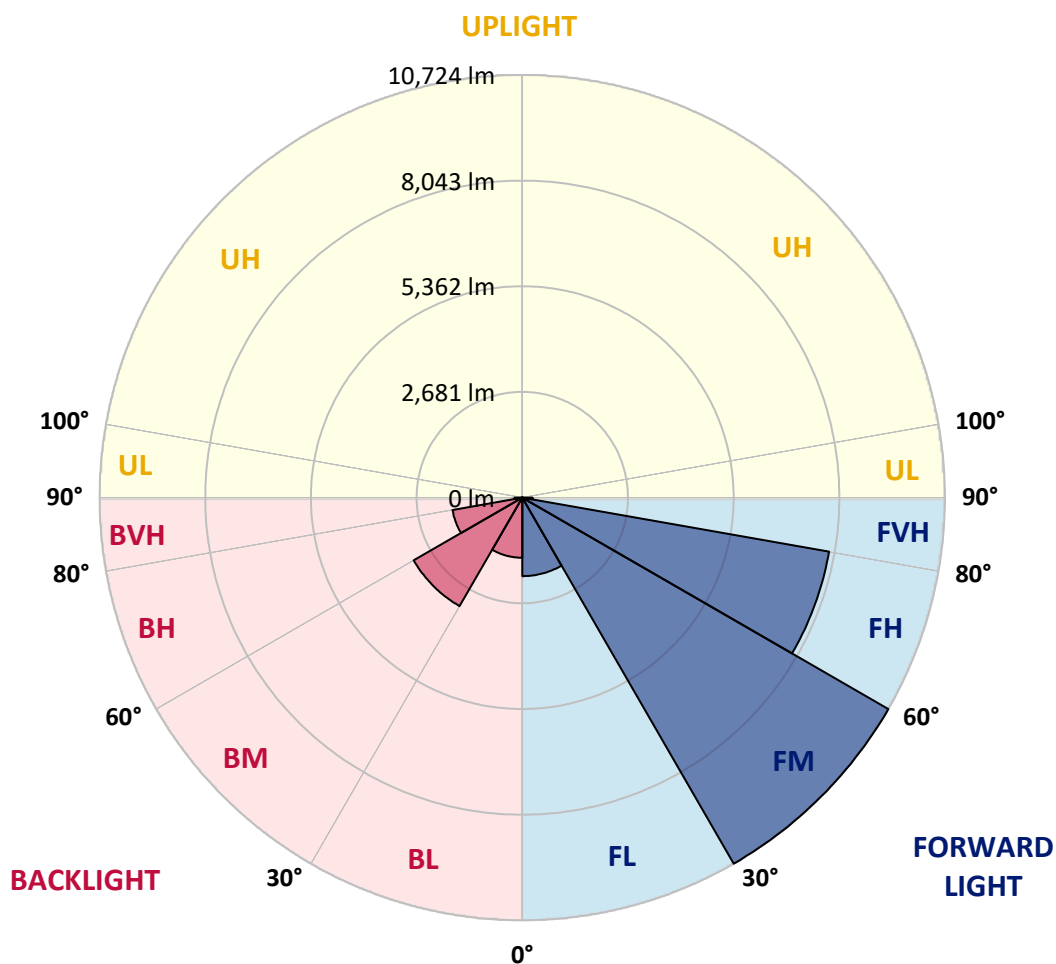
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1991.7	7.2			
FM	(30°-60°)	10723.9	38.9			
FH	(60°-80°)	7902.5	28.7			G4/12000
FVH	(80°-90°)	262.2	1.0			G3/500
BL	(0°-30°)	1525.9	5.5	B3/2500		
BM	(30°-60°)	3180.6	11.5	B3/5000		
BH	(60°-80°)	1797.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	195.8	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°	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4
2.5°	3741.9	3740.4	3745.0	3740.4	3743.4	3732.7	3728.1	3731.2	3726.5	3718.9	3705.0
5°	3788.0	3786.5	3788.0	3781.9	3785.0	3778.8	3768.0	3771.1	3763.4	3746.5	3726.5
7.5°	3866.4	3860.3	3860.3	3858.8	3852.6	3843.4	3835.7	3832.6	3824.9	3803.4	3772.7
10°	3967.9	3967.9	3969.4	3957.1	3964.8	3947.9	3940.2	3938.7	3912.6	3884.9	3841.8
12.5°	4101.7	4109.3	4104.7	4098.6	4095.5	4089.4	4063.2	4069.4	4040.2	3992.5	3940.2
15°	4267.7	4280.0	4272.3	4269.2	4261.5	4238.5	4227.7	4223.1	4184.7	4115.5	4046.3
17.5°	4487.5	4472.2	4466.0	4458.3	4426.0	4409.1	4390.7	4387.6	4353.8	4272.3	4164.7
20°	4679.7	4701.2	4688.9	4681.2	4648.9	4616.7	4602.8	4598.2	4569.0	4479.8	4307.7
22.5°	4908.8	4913.4	4918.0	4899.5	4884.2	4859.6	4835.0	4827.3	4816.5	4724.3	4513.7
25°	5153.2	5171.6	5156.3	5137.8	5119.4	5117.8	5140.9	5137.8	5133.2	5044.0	4787.3
27.5°	5551.4	5568.3	5572.9	5552.9	5482.2	5488.3	5540.6	5557.5	5628.2	5480.7	5139.4
30°	5775.8	5792.7	5831.2	5906.5	6018.7	6117.1	6243.2	6281.6	6349.3	6071.0	5557.5
32.5°	5914.2	5920.3	5989.5	6129.4	6466.1	6833.5	7176.4	7190.2	7233.2	6842.7	5940.3
35°	6132.5	6137.1	6192.4	6346.2	6741.3	7353.1	7883.5	7900.4	7865.1	7082.6	6118.7
37.5°	6401.5	6413.8	6449.2	6576.8	7048.8	7788.2	8177.2	8164.9	7851.3	7273.2	6433.8
40°	6793.6	6793.6	6752.0	6924.2	7373.1	8037.3	8280.2	8258.6	8175.6	7825.1	6913.5
42.5°	7139.5	7133.3	7231.7	7348.5	7779.0	8421.6	8712.2	8747.5	8884.4	8518.5	7459.2
45°	7589.9	7617.6	7672.9	7885.1	8469.3	9078.1	9453.2	9487.0	9680.7	9334.8	8097.2
47.5°	8045.0	8054.2	8227.9	8510.8	9324.0	9968.2	10275.7	10331.0	10507.8	10289.5	8784.4
50°	8367.8	8455.4	8733.7	9179.5	10204.9	11053.6	11293.4	11359.5	11671.6	11328.7	9585.4
52.5°	8709.1	8795.2	9134.9	9814.4	11216.5	12163.5	12458.7	12503.3	12827.7	12380.3	10404.8
55°	9001.2	9081.1	9467.0	10377.1	12022.1	13296.5	13831.5	13779.3	13934.5	13190.5	11036.6
57.5°	9048.8	9113.4	9599.2	10736.9	12627.8	14268.2	15035.3	15066.0	14886.2	13796.2	11557.8
60°	8679.9	8812.1	9370.2	10698.4	12899.9	14944.6	15933.1	15954.6	15444.2	14106.7	11765.3
62.5°	8026.5	8012.7	8687.6	10080.4	12518.6	15098.3	16462.0	16438.9	15662.5	13957.6	11564.0
64°	7124.1	7290.1	7920.4	9321.0	11903.7	14861.6	16517.3	16505.0	15558.0	13647.1	11221.1
65°	6573.7	6564.5	7187.1	8699.9	11291.8	14504.9	16418.9	16402.0	15339.7	13368.8	10955.2
67.5°	4745.8	4767.3	5382.3	6713.6	9179.5	13110.5	15777.8	15714.8	14478.8	12446.4	9943.6
70°	2874.8	2887.1	3369.9	4453.7	6589.1	10598.5	14222.0	14225.1	13161.3	11068.9	8463.1
72.5°	1514.3	1546.6	1740.3	2528.9	4001.7	7436.2	11537.8	11811.5	11299.5	9447.0	6685.9
75°	842.5	847.1	983.9	1246.8	2041.6	4161.6	8672.2	8750.6	8945.8	7603.7	4944.1
77.5°	642.6	651.8	694.9	805.6	1111.5	1929.4	5248.5	5642.1	6304.7	5360.7	2821.0
80°	521.2	530.4	567.3	633.4	739.5	914.7	2438.2	2650.4	3374.5	2379.8	1100.7
82.5°	405.9	399.7	447.4	490.4	538.1	541.1	1000.8	1106.9	1374.4	1023.9	476.6
85°	301.3	301.3	339.8	330.5	347.4	316.7	441.2	487.3	550.4	435.1	221.4
87.5°	119.9	132.2	222.9	199.9	155.3	124.5	163.0	172.2	190.6	170.6	92.2
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°	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4
2.5°	3706.6	3711.2	3700.4	3692.7	3689.6	3685.0	3680.4	3682.0	3688.1	3694.3	3692.7
5°	3725.0	3726.5	3708.1	3698.9	3692.7	3686.6	3686.6	3691.2	3703.5	3712.7	3712.7
7.5°	3771.1	3771.1	3745.0	3728.1	3718.9	3708.1	3705.0	3706.6	3715.8	3728.1	3729.6
10°	3843.4	3837.2	3803.4	3777.3	3760.4	3734.2	3711.2	3698.9	3703.5	3711.2	3711.2
12.5°	3931.0	3914.1	3871.0	3835.7	3794.2	3745.0	3697.3	3672.7	3671.2	3678.9	3675.8
15°	4024.8	4006.3	3946.4	3881.8	3809.6	3737.3	3680.4	3645.1	3617.4	3609.7	3626.6
17.5°	4133.9	4095.5	4012.5	3923.3	3815.7	3721.9	3632.8	3560.5	3511.3	3497.5	3502.1
20°	4266.1	4215.4	4103.2	3963.3	3811.1	3666.6	3528.2	3431.4	3351.4	3326.8	3329.9
22.5°	4449.1	4361.5	4197.0	3983.3	3772.7	3562.0	3369.9	3243.8	3147.0	3108.5	3131.6
25°	4656.6	4561.3	4286.1	3978.7	3672.7	3394.5	3182.3	3017.8	2930.2	2873.3	2885.6
27.5°	4942.6	4773.5	4381.4	3937.2	3529.8	3190.0	2944.0	2788.8	2708.8	2679.6	2693.4
30°	5308.5	5048.7	4484.5	3824.9	3303.8	2931.7	2704.2	2602.7	2555.1	2518.2	2530.5
32.5°	5572.9	5242.4	4507.5	3635.8	3059.3	2696.5	2541.2	2465.9	2413.6	2378.3	2386.0
35°	5762.0	5406.9	4496.8	3403.7	2804.1	2502.8	2412.1	2350.6	2266.1	2189.2	2175.4
37.5°	6015.7	5612.9	4418.3	3150.0	2552.0	2372.1	2307.6	2193.8	2072.3	1969.3	1964.7
40°	6404.6	5854.2	4250.8	2851.8	2336.8	2275.3	2196.9	2049.3	1918.6	1835.6	1829.4
42.5°	6805.9	6077.1	4023.2	2538.2	2160.0	2173.8	2078.5	1932.5	1852.5	1798.7	1792.6
45°	7296.3	6318.5	3777.3	2266.1	2029.3	2078.5	1975.5	1890.9	1843.3	1807.9	1798.7
47.5°	7826.7	6566.0	3500.5	2021.6	1918.6	1990.9	1932.5	1894.0	1867.9	1843.3	1832.5
50°	8398.5	6842.7	3240.7	1824.8	1818.7	1900.2	1927.8	1914.0	1898.6	1890.9	1881.7
52.5°	9025.8	7125.6	3022.4	1686.5	1731.1	1835.6	1929.4	1940.1	1940.1	1935.5	1929.4
55°	9450.1	7322.4	2801.1	1574.2	1641.9	1783.3	1926.3	1967.8	1983.2	1977.0	1970.9
57.5°	9763.7	7430.0	2522.8	1477.4	1566.6	1732.6	1909.4	1970.9	1986.3	1993.9	1990.9
60°	9828.3	7330.1	2158.4	1375.9	1485.1	1658.8	1847.9	1924.8	1944.7	1992.4	1997.0
62.5°	9537.7	7022.6	1795.6	1276.0	1385.2	1546.6	1764.9	1872.5	1912.5	1986.3	1993.9
64°	9181.1	6678.3	1594.2	1213.0	1320.6	1483.5	1723.4	1858.7	1910.9	2009.3	2015.5
65°	8919.7	6427.7	1468.2	1173.0	1279.1	1442.0	1700.3	1863.3	1924.8	2044.7	2053.9
67.5°	7957.3	5565.2	1214.5	1079.2	1180.7	1371.3	1704.9	1901.7	1921.7	2058.5	2057.0
70°	6584.5	4430.6	1017.7	993.1	1085.4	1314.4	1686.5	1840.2	1841.7	1932.5	1910.9
72.5°	4930.3	3274.6	882.4	904.0	979.3	1179.1	1592.7	1757.2	1731.1	1743.4	1721.8
75°	3386.8	2166.1	759.5	808.6	868.6	1042.3	1460.5	1595.8	1554.3	1538.9	1523.5
77.5°	1807.9	1197.6	631.9	714.9	754.8	900.9	1274.5	1405.1	1362.1	1302.1	1282.2
80°	731.8	564.2	508.9	591.9	614.9	725.6	1060.8	1142.3	1110.0	1005.4	971.6
82.5°	367.4	338.2	399.7	465.8	467.4	518.1	788.7	865.5	793.3	665.7	636.5
85°	192.2	198.3	275.2	327.5	289.0	279.8	473.5	524.2	481.2	418.2	376.7
87.5°	69.2	79.9	144.5	143.0	101.5	53.8	104.5	50.7	27.7	16.9	21.5
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)