

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: P528896

Luminaire Tested: **GALN-SA4A-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528896  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-730-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14382 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

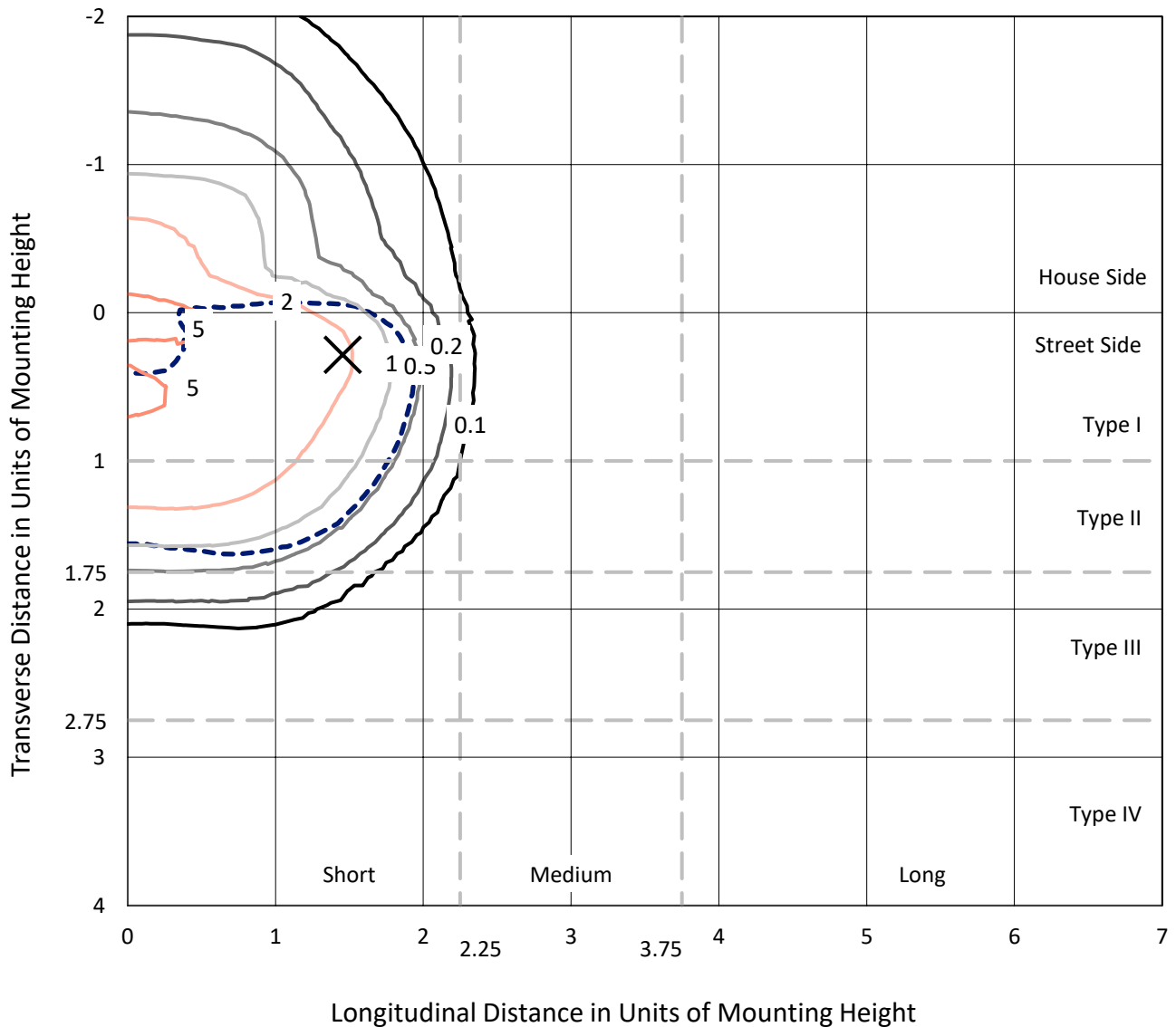
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

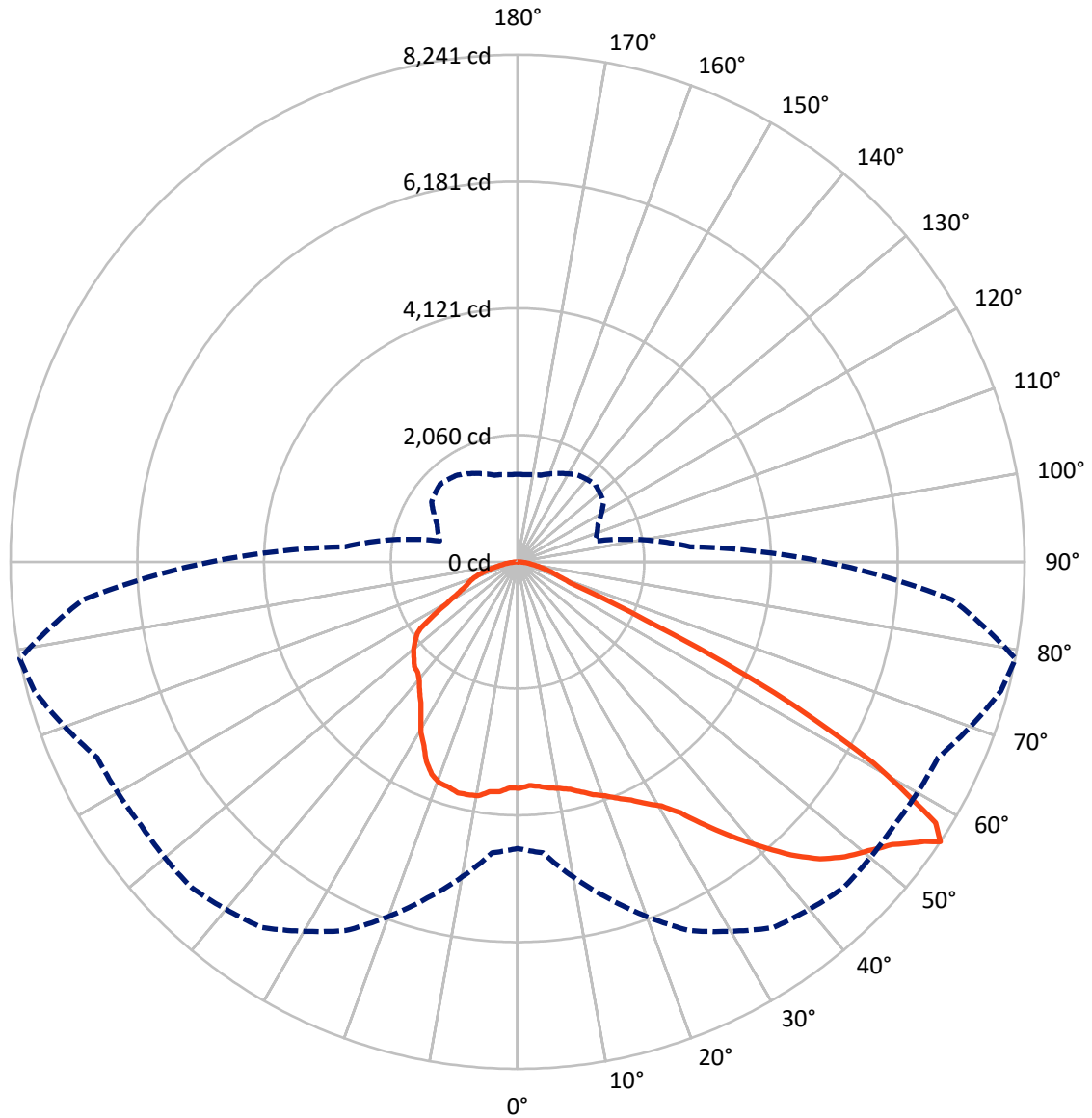
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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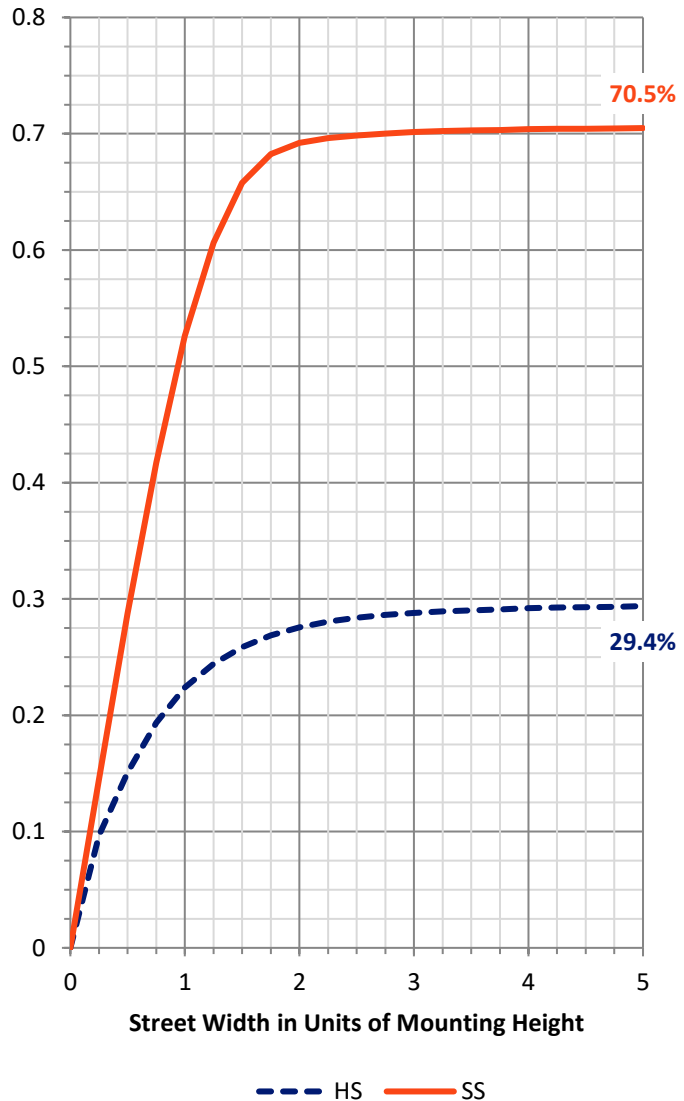
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4247.3	0.0	4247.3
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	10134.7	0.0	10134.7
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	14382.0	0.0	14382.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.6	2.3
10°-20°	915.6	6.4
20°-30°	1566.4	10.9
30°-40°	2400.7	16.7
40°-50°	3244.6	22.6
50°-60°	3726.5	25.9
60°-70°	1698.7	11.8
70°-80°	418.8	2.9
80°-90°	76.1	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°	14382.0	100.0
0°-180°	14382.0	100.0

**Coefficient of Utilization**

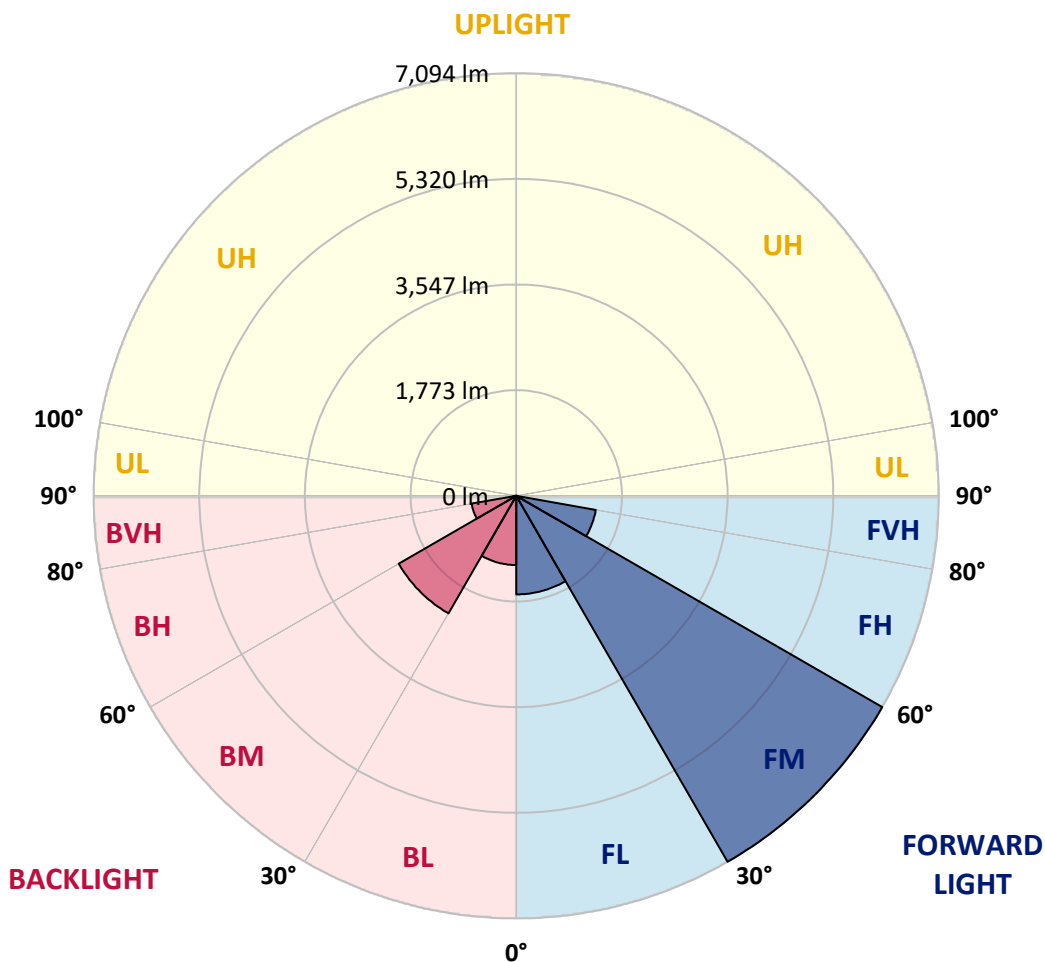


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1654.8	11.5			
FM (30°-60°)	7093.6	49.3			
FH (60°-80°)	1355.9	9.4			G1/1800
FVH (80°-90°)	30.4	0.2			G1/100
BL (0°-30°)	1161.8	8.1	B3/2500		
BM (30°-60°)	2278.2	15.8	B2/2500		
BH (60°-80°)	761.6	5.3	B2/1000		G2/1000
BVH (80°-90°)	45.7	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8
2.5°	3500.6	3491.7	3513.2	3529.3	3549.0	3574.1	3586.6	3593.8	3656.5	3640.4	3688.7
5°	3425.4	3402.1	3418.2	3430.8	3464.8	3495.3	3529.3	3583.0	3640.4	3665.5	3724.6
7.5°	3359.1	3346.6	3343.0	3351.9	3398.5	3437.9	3497.0	3575.9	3669.0	3710.2	3744.3
10°	3249.8	3231.9	3258.8	3317.9	3330.4	3412.8	3480.9	3593.8	3674.4	3746.1	3846.4
12.5°	3201.4	3183.5	3188.9	3222.9	3310.7	3389.6	3470.2	3597.4	3767.6	3796.2	3930.6
15°	3278.5	3260.6	3265.9	3257.0	3341.2	3382.4	3509.6	3669.0	3832.1	3880.4	4023.8
17.5°	3454.1	3455.8	3432.6	3412.8	3393.1	3480.9	3568.7	3712.0	3857.1	3979.0	4086.5
20°	3789.1	3729.9	3683.4	3572.3	3541.8	3579.5	3690.5	3828.5	3959.3	4059.6	4181.4
22.5°	4047.0	4052.4	3986.1	3803.4	3737.1	3753.2	3848.2	3961.1	4104.4	4176.0	4315.8
25°	4421.5	4383.9	4312.2	4167.1	4018.4	4030.9	4100.8	4202.9	4242.3	4292.5	4444.8
27.5°	4763.7	4774.4	4632.9	4496.7	4312.2	4276.4	4401.8	4419.7	4353.4	4448.3	4500.3
30°	5111.2	5102.3	5009.1	4849.6	4668.7	4675.9	4731.4	4643.6	4552.3	4604.2	4640.0
32.5°	5471.3	5369.2	5365.6	5222.3	5084.3	5018.1	4950.0	4993.0	4851.4	4862.2	4828.1
35°	5759.7	5774.1	5691.7	5589.5	5521.5	5405.0	5218.7	5295.7	5268.9	5256.3	5109.4
37.5°	5969.3	5913.8	5955.0	5921.0	5856.5	5711.4	5517.9	5591.3	5603.9	5664.8	5494.6
40°	6141.3	6118.0	6227.3	6245.2	6200.5	5886.9	5539.4	5757.9	5946.1	6078.6	5876.2
42.5°	6223.7	6273.9	6388.6	6526.5	6426.2	6091.2	5650.5	5885.1	6304.4	6514.0	6238.1
45°	6334.8	6270.3	6440.5	6693.1	6694.9	6263.2	5757.9	6057.1	6583.8	6888.4	6485.3
47.5°	6222.0	6254.2	6429.8	6750.5	6832.9	6444.1	6048.2	6300.8	6892.0	7162.5	6714.6
50°	5969.3	6033.8	6354.5	6687.7	6936.8	6635.8	6381.4	6564.1	7176.8	7382.9	6752.2
52.5°	5706.0	5741.8	6243.5	6736.1	6983.3	6883.0	6827.5	6927.8	7524.4	7631.9	6798.8
55°	4989.4	5159.6	5876.2	6714.6	7210.9	7329.1	7286.1	7433.0	7918.5	8026.0	7053.2
56°	4658.0	4747.5	5655.8	6614.3	7255.7	7492.1	7470.6	7536.9	8128.1	8241.0	7092.6
57.5°	4045.3	4052.4	4822.8	6170.0	7087.3	7540.5	7519.0	7571.0	8086.9	8009.9	6746.9
60°	2531.4	2642.5	3282.1	4745.7	6026.7	6995.9	7117.7	6700.3	6818.5	6655.5	5249.2
62.5°	1311.4	1295.3	1719.9	2775.1	4000.5	5009.1	5122.0	5102.3	4919.5	4681.2	3429.0
65°	653.9	657.5	899.3	1374.1	2049.5	2622.8	2938.1	2972.1	2486.6	2287.8	1626.7
67.5°	474.8	492.7	646.7	840.2	965.6	1080.3	1323.9	1298.9	983.5	935.2	867.1
70°	369.1	385.2	524.9	641.4	582.2	582.2	634.2	655.7	700.5	720.2	743.5
72.5°	268.7	281.3	401.3	442.5	381.6	410.3	474.8	524.9	571.5	578.7	605.5
75°	184.5	195.3	263.4	243.6	229.3	283.1	347.6	394.1	428.2	446.1	462.2
77.5°	120.0	123.6	150.5	127.2	146.9	182.7	225.7	265.1	299.2	313.5	317.1
80°	53.7	59.1	64.5	80.6	102.1	130.8	161.2	193.5	215.0	220.4	231.1
82.5°	30.5	30.5	39.4	57.3	75.2	95.0	116.4	139.7	164.8	170.2	168.4
85°	16.1	16.1	23.3	34.0	46.6	55.5	53.7	55.5	59.1	68.1	66.3
87.5°	5.4	5.4	7.2	7.2	9.0	10.7	9.0	12.5	16.1	16.1	16.1
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°	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8
2.5°	3674.4	3690.5	3669.0	3715.6	3715.6	3706.7	3661.9	3676.2	3687.0	3687.0	3695.9
5°	3744.3	3738.9	3753.2	3697.7	3663.7	3651.1	3577.7	3541.8	3511.4	3509.6	3482.7
7.5°	3783.7	3769.4	3764.0	3722.8	3572.3	3480.9	3323.3	3231.9	3212.2	3142.3	3169.2
10°	3846.4	3873.3	3846.4	3622.5	3412.8	3203.2	3049.2	2907.6	2852.1	2807.3	2780.4
12.5°	3975.4	3962.8	3807.0	3504.2	3210.4	2961.4	2732.1	2583.4	2527.8	2488.4	2484.8
15°	4084.7	4022.0	3783.7	3317.9	2895.1	2630.0	2441.8	2336.1	2311.1	2314.6	2330.8
17.5°	4122.3	4079.3	3661.9	3124.4	2660.4	2348.7	2260.9	2244.8	2268.1	2294.9	2302.1
20°	4181.4	4113.3	3611.7	2861.1	2370.2	2173.1	2167.7	2225.1	2268.1	2307.5	2312.9
22.5°	4305.0	4133.0	3448.7	2612.0	2171.3	2121.2	2173.1	2221.5	2287.8	2320.0	2291.4
25°	4340.9	4090.0	3219.4	2312.9	2045.9	2088.9	2144.5	2210.7	2257.3	2275.2	2287.8
27.5°	4371.3	4023.8	2909.4	2114.0	2006.5	2087.1	2144.5	2200.0	2225.1	2241.2	2255.5
30°	4457.3	4004.0	2640.7	1981.4	1981.4	2051.3	2124.7	2139.1	2173.1	2192.8	2217.9
32.5°	4500.3	3867.9	2364.8	1897.2	1956.3	2069.2	2074.6	2101.5	2103.2	2119.4	2092.5
35°	4613.2	3771.2	2108.6	1836.3	1967.1	2051.3	2078.2	2062.0	1974.3	1931.3	1940.2
37.5°	4695.6	3722.8	1924.1	1829.1	1968.9	2071.0	2085.3	1963.5	1872.1	1800.5	1818.4
40°	4917.7	3602.7	1784.4	1816.6	1985.0	2092.5	2053.1	1920.5	1755.7	1682.2	1669.7
42.5°	5087.9	3516.8	1696.6	1802.3	1997.5	2123.0	2037.0	1834.5	1666.1	1598.0	1616.0
45°	5285.0	3497.0	1650.0	1805.9	2019.0	2139.1	2017.3	1768.2	1589.1	1562.2	1556.8
47.5°	5354.9	3355.5	1599.8	1775.4	2013.7	2133.7	1951.0	1718.1	1560.4	1564.0	1578.3
50°	5238.4	3210.4	1562.2	1712.7	1977.8	2085.3	1847.1	1651.8	1544.3	1589.1	1614.2
52.5°	5089.7	3061.7	1485.2	1628.5	1904.4	2010.1	1798.7	1648.2	1528.2	1513.8	1519.2
55°	5134.5	2939.9	1377.7	1513.8	1786.1	1870.3	1744.9	1614.2	1488.8	1435.0	1452.9
56°	4989.4	2814.5	1307.8	1442.2	1705.5	1780.8	1718.1	1583.7	1456.5	1420.7	1420.7
57.5°	4579.1	2393.5	1216.4	1327.5	1535.3	1624.9	1666.1	1565.8	1420.7	1358.0	1359.8
60°	3377.0	1701.9	1091.0	1169.9	1272.0	1343.6	1535.3	1515.6	1331.1	1288.1	1272.0
62.5°	2081.7	1243.3	1001.5	1031.9	1083.9	1143.0	1340.1	1372.3	1236.1	1189.6	1178.8
65°	1166.3	951.3	933.4	945.9	971.0	1001.5	1112.5	1184.2	1091.0	1019.4	1015.8
67.5°	852.8	851.0	865.3	876.1	886.8	886.8	913.7	942.3	929.8	872.5	867.1
70°	757.8	763.2	773.9	775.7	779.3	766.8	745.3	736.3	750.6	714.8	707.7
72.5°	625.2	643.2	655.7	657.5	637.8	621.7	593.0	562.5	551.8	544.6	542.8
75°	480.1	492.7	498.0	496.3	489.1	465.8	431.8	401.3	381.6	360.1	370.8
77.5°	324.3	342.2	351.1	351.1	340.4	304.6	288.4	265.1	245.4	222.1	225.7
80°	227.5	240.1	254.4	252.6	234.7	216.8	193.5	172.0	155.9	137.9	136.2
82.5°	170.2	177.4	184.5	180.9	168.4	150.5	134.4	114.7	96.7	84.2	84.2
85°	60.9	66.3	80.6	84.2	91.4	91.4	77.0	64.5	52.0	43.0	43.0
87.5°	17.9	17.9	19.7	19.7	17.9	19.7	16.1	17.9	19.7	12.5	12.5
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)