

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: P528194

Luminaire Tested: **GALN-SA3B-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528194  
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-SA3B-730-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 800mA 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: 13505 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

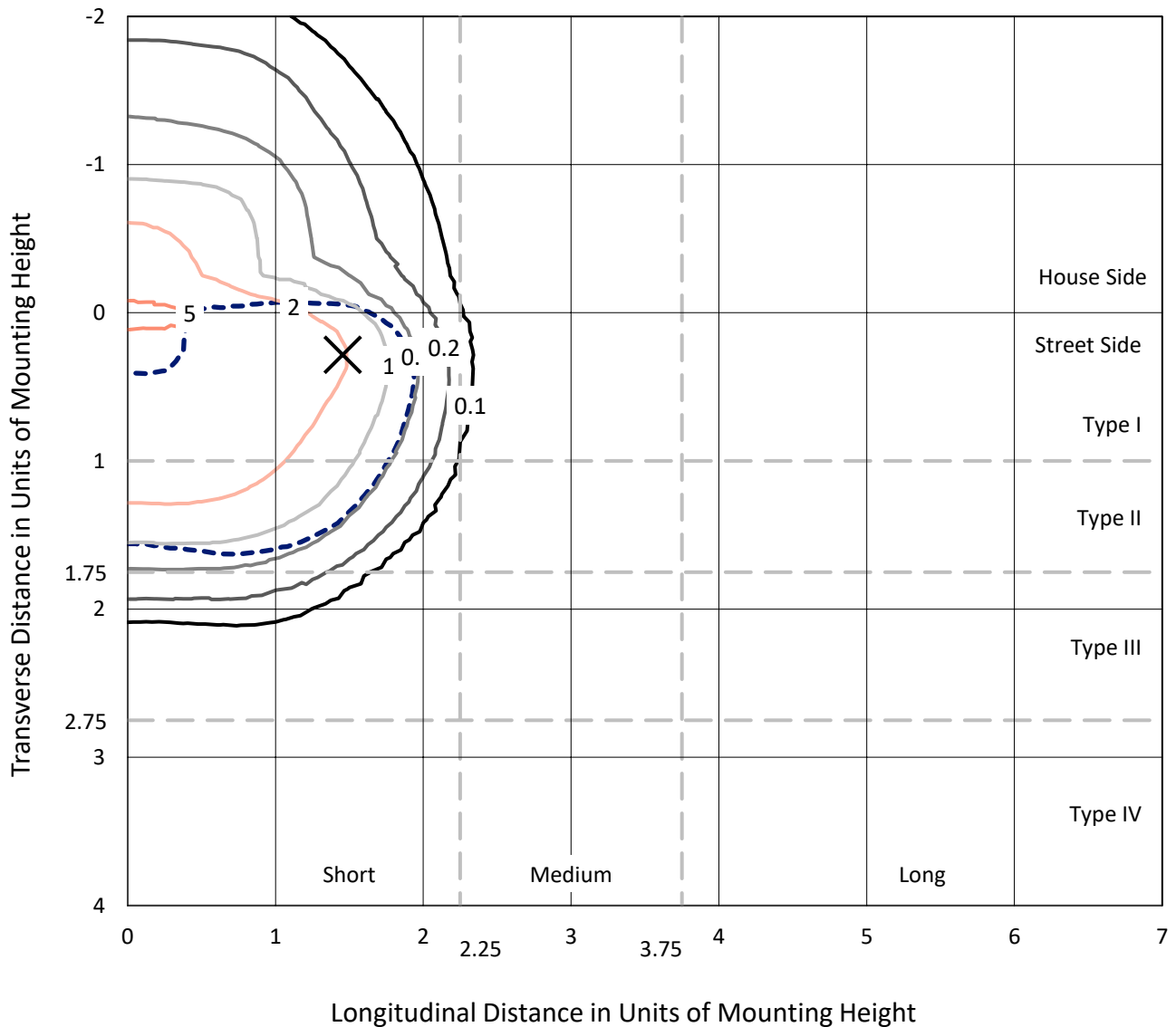
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

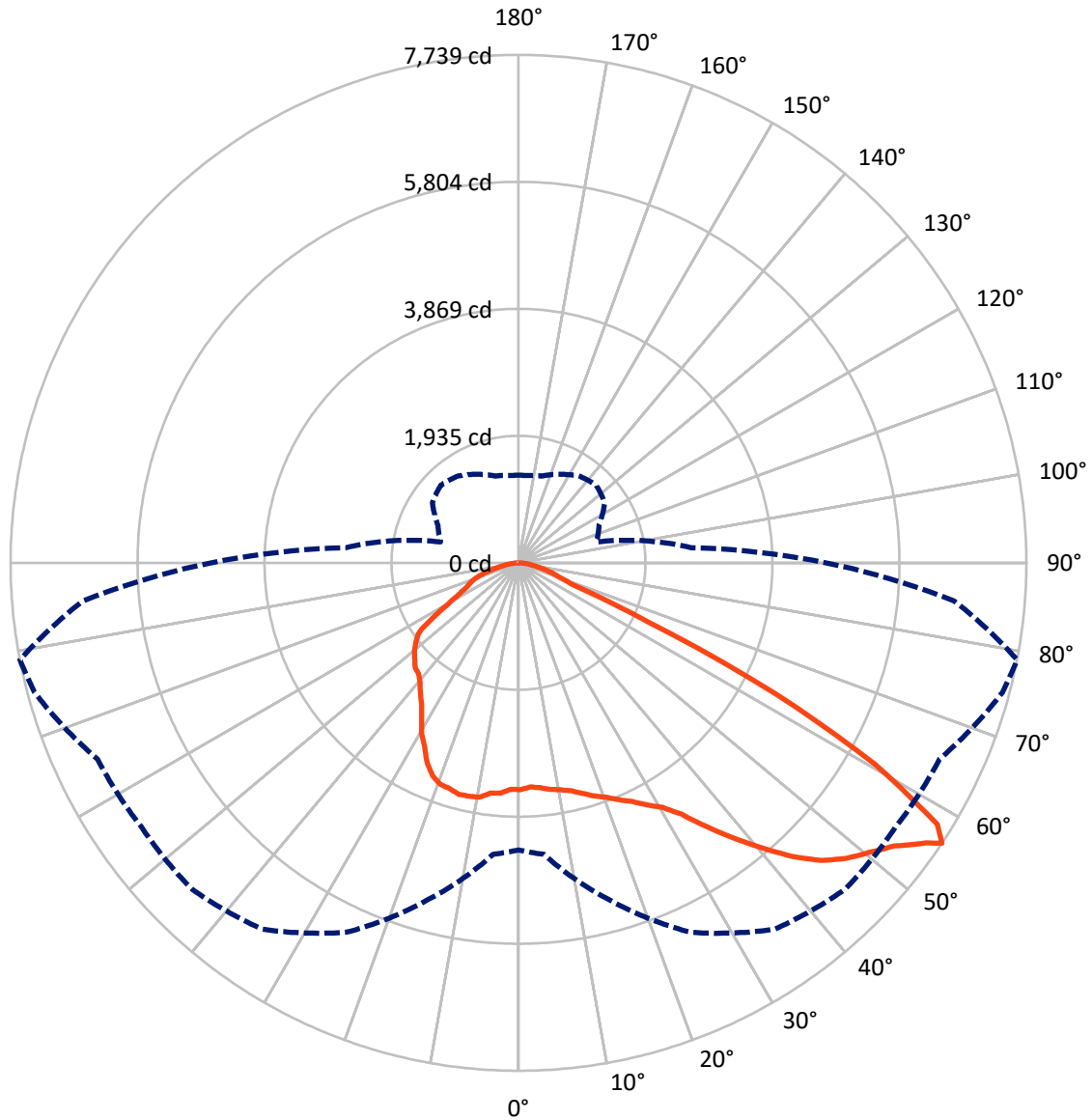
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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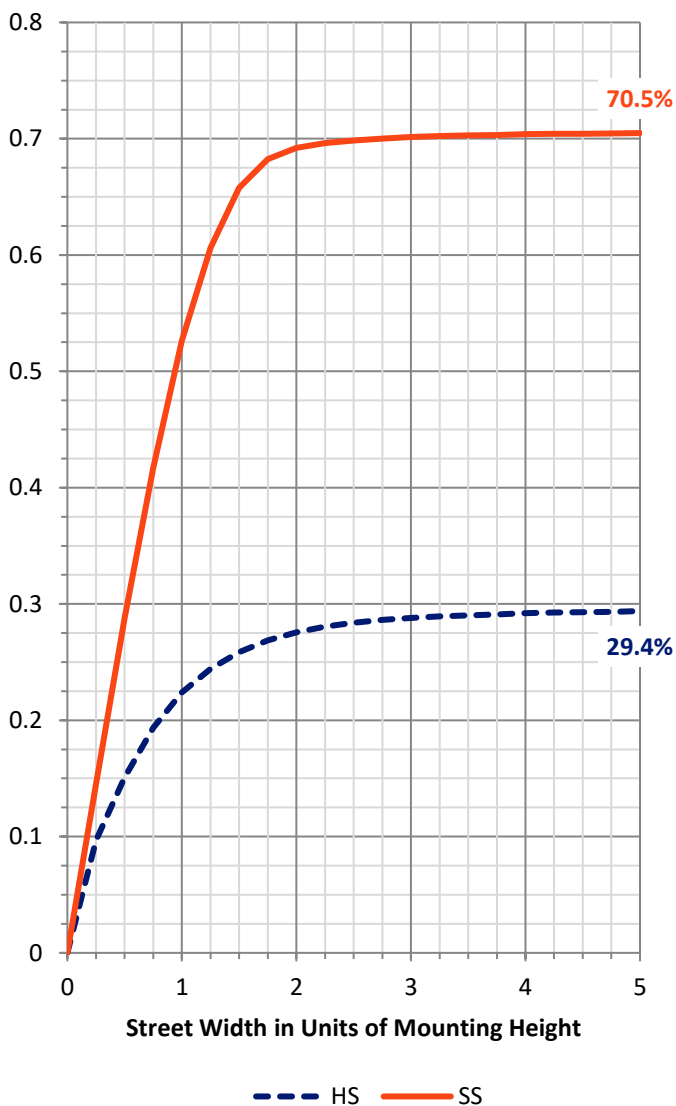
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3988.3	0.0	3988.3
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	9516.7	0.0	9516.7
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	13505.0	0.0	13505.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	314.2	2.3
10°-20°	859.8	6.4
20°-30°	1470.9	10.9
30°-40°	2254.3	16.7
40°-50°	3046.7	22.6
50°-60°	3499.3	25.9
60°-70°	1595.1	11.8
70°-80°	393.3	2.9
80°-90°	71.5	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°	13505.0	100.0
0°-180°	13505.0	100.0

**Coefficient of Utilization**

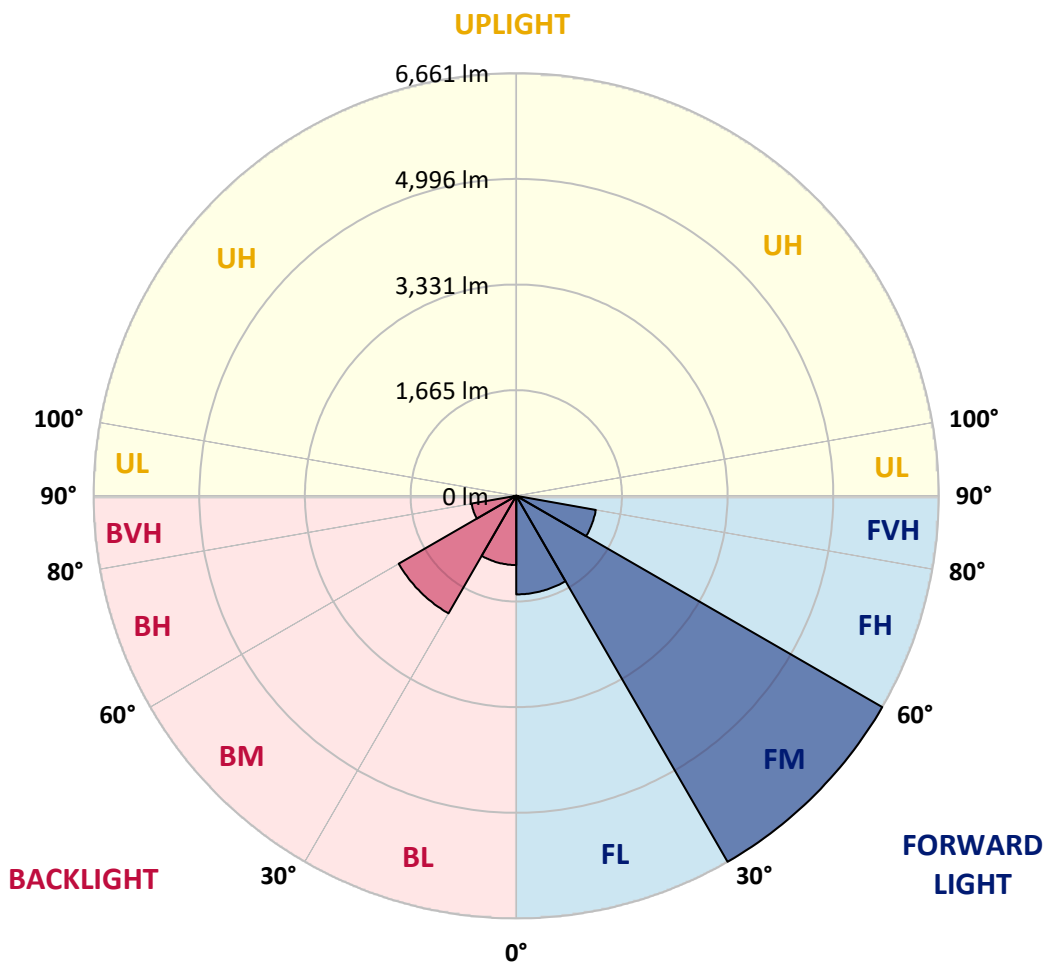


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1553.9	11.5			
FM (30°-60°)	6661.1	49.3			
FH (60°-80°)	1273.2	9.4			G1/1800
FVH (80°-90°)	28.5	0.2			G1/100
BL (0°-30°)	1091.0	8.1	B3/2500		
BM (30°-60°)	2139.3	15.8	B2/2500		
BH (60°-80°)	715.1	5.3	B2/1000		G2/1000
BVH (80°-90°)	42.9	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°	3455.4	3455.4	3455.4	3455.4	3455.4	3455.4	3455.4	3455.4	3455.4	3455.4	3455.4
2.5°	3287.2	3278.8	3298.9	3314.1	3332.6	3356.1	3367.9	3374.6	3433.5	3418.4	3463.8
5°	3216.5	3194.6	3209.8	3221.6	3253.5	3282.1	3314.1	3364.6	3418.4	3441.9	3497.5
7.5°	3154.3	3142.5	3139.1	3147.5	3191.3	3228.3	3283.8	3357.8	3445.3	3484.0	3516.0
10°	3051.6	3034.8	3060.1	3115.6	3127.4	3204.7	3268.7	3374.6	3450.3	3517.6	3611.8
12.5°	3006.2	2989.4	2994.5	3026.4	3108.8	3182.9	3258.6	3378.0	3537.8	3564.7	3690.9
15°	3078.6	3061.7	3066.8	3058.4	3137.4	3176.1	3295.6	3445.3	3598.4	3643.8	3778.4
17.5°	3243.4	3245.1	3223.2	3204.7	3186.2	3268.7	3351.1	3485.7	3621.9	3736.3	3837.3
20°	3558.0	3502.5	3458.8	3354.5	3325.9	3361.2	3465.5	3595.0	3717.8	3812.0	3926.4
22.5°	3800.3	3805.3	3743.1	3571.5	3509.2	3524.4	3613.5	3719.5	3854.1	3921.4	4052.6
25°	4151.9	4116.5	4049.2	3913.0	3773.3	3785.1	3850.7	3946.6	3983.6	4030.7	4173.7
27.5°	4473.2	4483.3	4350.4	4222.5	4049.2	4015.6	4133.4	4150.2	4087.9	4177.1	4225.9
30°	4799.5	4791.1	4703.6	4553.9	4384.0	4390.7	4442.9	4360.5	4274.7	4323.4	4357.1
32.5°	5137.7	5041.8	5038.4	4903.8	4774.3	4712.1	4648.1	4688.5	4555.6	4565.7	4533.7
35°	5408.5	5422.0	5344.6	5248.7	5184.8	5075.4	4900.5	4972.8	4947.6	4935.8	4797.9
37.5°	5605.3	5553.2	5591.9	5559.9	5499.4	5363.1	5181.4	5250.4	5262.2	5319.4	5159.5
40°	5766.8	5745.0	5847.6	5864.4	5822.4	5528.0	5201.6	5406.8	5583.5	5708.0	5517.9
42.5°	5844.2	5891.3	5999.0	6128.5	6034.3	5719.7	5305.9	5526.3	5919.9	6116.8	5857.7
45°	5948.5	5888.0	6047.8	6285.0	6286.7	5881.2	5406.8	5687.8	6182.4	6468.4	6089.8
47.5°	5842.5	5872.8	6037.7	6338.8	6416.2	6051.1	5679.4	5916.6	6471.7	6725.7	6305.2
50°	5605.3	5665.9	5967.0	6279.9	6513.8	6231.1	5992.3	6163.9	6739.2	6932.7	6340.5
52.5°	5358.0	5391.7	5862.7	6325.4	6557.5	6463.3	6411.2	6505.4	7065.6	7166.5	6384.2
55°	4685.1	4845.0	5517.9	6305.2	6771.2	6882.2	6841.8	6979.8	7435.7	7536.6	6623.1
56°	4373.9	4458.0	5310.9	6211.0	6813.2	7035.3	7015.1	7077.3	7632.5	7738.5	6660.1
57.5°	3798.6	3805.3	4528.7	5793.8	6655.1	7080.7	7060.5	7109.3	7593.8	7521.5	6335.5
60°	2377.1	2481.4	3081.9	4456.3	5659.2	6569.3	6683.7	6291.7	6402.7	6249.7	4929.1
62.5°	1231.4	1216.3	1615.0	2605.8	3756.5	4703.6	4809.6	4791.1	4619.5	4395.8	3219.9
65°	614.0	617.4	844.5	1290.3	1924.5	2462.9	2758.9	2790.9	2335.0	2148.3	1527.5
67.5°	445.8	462.6	607.3	789.0	906.7	1014.4	1243.2	1219.7	923.6	878.1	814.2
70°	346.5	361.7	492.9	602.3	546.7	546.7	595.5	615.7	657.8	676.3	698.1
72.5°	252.3	264.1	376.8	415.5	358.3	385.2	445.8	492.9	536.6	543.4	568.6
75°	173.3	183.4	247.3	228.8	215.3	265.8	326.4	370.1	402.1	418.9	434.0
77.5°	112.7	116.1	141.3	119.4	137.9	171.6	212.0	249.0	280.9	294.4	297.8
80°	50.5	55.5	60.6	75.7	95.9	122.8	151.4	181.7	201.9	206.9	217.0
82.5°	28.6	28.6	37.0	53.8	70.7	89.2	109.3	131.2	154.8	159.8	158.1
85°	15.1	15.1	21.9	32.0	43.7	52.2	50.5	52.2	55.5	63.9	62.2
87.5°	5.0	5.0	6.7	6.7	8.4	10.1	8.4	11.8	15.1	15.1	15.1
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°	3455.4	3455.4	3455.4	3455.4	3455.4	3455.4	3455.4	3455.4	3455.4	3455.4	3455.4
2.5°	3450.3	3465.5	3445.3	3489.0	3489.0	3480.6	3438.6	3452.0	3462.1	3462.1	3470.5
5°	3516.0	3510.9	3524.4	3472.2	3440.3	3428.5	3359.5	3325.9	3297.3	3295.6	3270.3
7.5°	3553.0	3539.5	3534.5	3495.8	3354.5	3268.7	3120.6	3034.8	3016.3	2950.7	2975.9
10°	3611.8	3637.1	3611.8	3401.6	3204.7	3007.9	2863.2	2730.3	2678.2	2636.1	2610.9
12.5°	3733.0	3721.2	3574.8	3290.5	3014.6	2780.8	2565.5	2425.8	2373.7	2336.7	2333.3
15°	3835.6	3776.7	3553.0	3115.6	2718.6	2469.6	2292.9	2193.7	2170.1	2173.5	2188.6
17.5°	3870.9	3830.5	3438.6	2933.9	2498.2	2205.5	2123.0	2107.9	2129.8	2155.0	2161.7
20°	3926.4	3862.5	3391.5	2686.6	2225.7	2040.6	2035.6	2089.4	2129.8	2166.8	2171.8
22.5°	4042.5	3881.0	3238.4	2452.8	2038.9	1991.8	2040.6	2086.0	2148.3	2178.5	2151.6
25°	4076.2	3840.6	3023.0	2171.8	1921.2	1961.5	2013.7	2075.9	2119.7	2136.5	2148.3
27.5°	4104.8	3778.4	2732.0	1985.1	1884.1	1959.9	2013.7	2065.8	2089.4	2104.5	2118.0
30°	4185.5	3759.9	2479.7	1860.6	1860.6	1926.2	1995.2	2008.6	2040.6	2059.1	2082.7
32.5°	4225.9	3632.0	2220.6	1781.5	1837.0	1943.0	1948.1	1973.3	1975.0	1990.1	1964.9
35°	4331.9	3541.2	1980.0	1724.3	1847.1	1926.2	1951.4	1936.3	1853.9	1813.5	1821.9
37.5°	4409.2	3495.8	1806.8	1717.6	1848.8	1944.7	1958.2	1843.8	1758.0	1690.7	1707.5
40°	4617.8	3383.1	1675.5	1705.8	1864.0	1964.9	1927.9	1803.4	1648.6	1579.7	1567.9
42.5°	4777.7	3302.3	1593.1	1692.4	1875.7	1993.5	1912.7	1722.7	1564.5	1500.6	1517.4
45°	4962.7	3283.8	1549.4	1695.7	1895.9	2008.6	1894.2	1660.4	1492.2	1466.9	1461.9
47.5°	5028.3	3150.9	1502.3	1667.1	1890.9	2003.6	1832.0	1613.3	1465.3	1468.6	1482.1
50°	4919.0	3014.6	1466.9	1608.3	1857.2	1958.2	1734.4	1551.1	1450.1	1492.2	1515.7
52.5°	4779.3	2875.0	1394.6	1529.2	1788.3	1887.5	1689.0	1547.7	1435.0	1421.5	1426.6
55°	4821.4	2760.6	1293.7	1421.5	1677.2	1756.3	1638.5	1515.7	1398.0	1347.5	1364.3
56°	4685.1	2642.9	1228.1	1354.2	1601.5	1672.2	1613.3	1487.1	1367.7	1334.0	1334.0
57.5°	4299.9	2247.5	1142.3	1246.6	1441.7	1525.8	1564.5	1470.3	1334.0	1275.2	1276.8
60°	3171.1	1598.2	1024.5	1098.5	1194.4	1261.7	1441.7	1423.2	1249.9	1209.6	1194.4
62.5°	1954.8	1167.5	940.4	969.0	1017.8	1073.3	1258.3	1288.6	1160.8	1117.0	1106.9
65°	1095.2	893.3	876.5	888.2	911.8	940.4	1044.7	1112.0	1024.5	957.2	953.9
67.5°	800.8	799.1	812.5	822.6	832.7	832.7	858.0	884.9	873.1	819.3	814.2
70°	711.6	716.6	726.7	728.4	731.8	720.0	699.8	691.4	704.9	671.2	664.5
72.5°	587.1	603.9	615.7	617.4	598.9	583.7	556.8	528.2	518.1	511.4	509.7
75°	450.8	462.6	467.7	466.0	459.3	437.4	405.4	376.8	358.3	338.1	348.2
77.5°	304.5	321.3	329.7	329.7	319.6	286.0	270.8	249.0	230.5	208.6	212.0
80°	213.6	225.4	238.9	237.2	220.4	203.6	181.7	161.5	146.4	129.5	127.9
82.5°	159.8	166.5	173.3	169.9	158.1	141.3	126.2	107.7	90.8	79.1	79.1
85°	57.2	62.2	75.7	79.1	85.8	85.8	72.3	60.6	48.8	40.4	40.4
87.5°	16.8	16.8	18.5	18.5	16.8	18.5	15.1	16.8	18.5	11.8	11.8
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)