

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: P531229

Luminaire Tested: **GALN-SA6C-730-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531229  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-730-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22397 lumens  
Efficiency: N/A  
Efficacy: 69.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

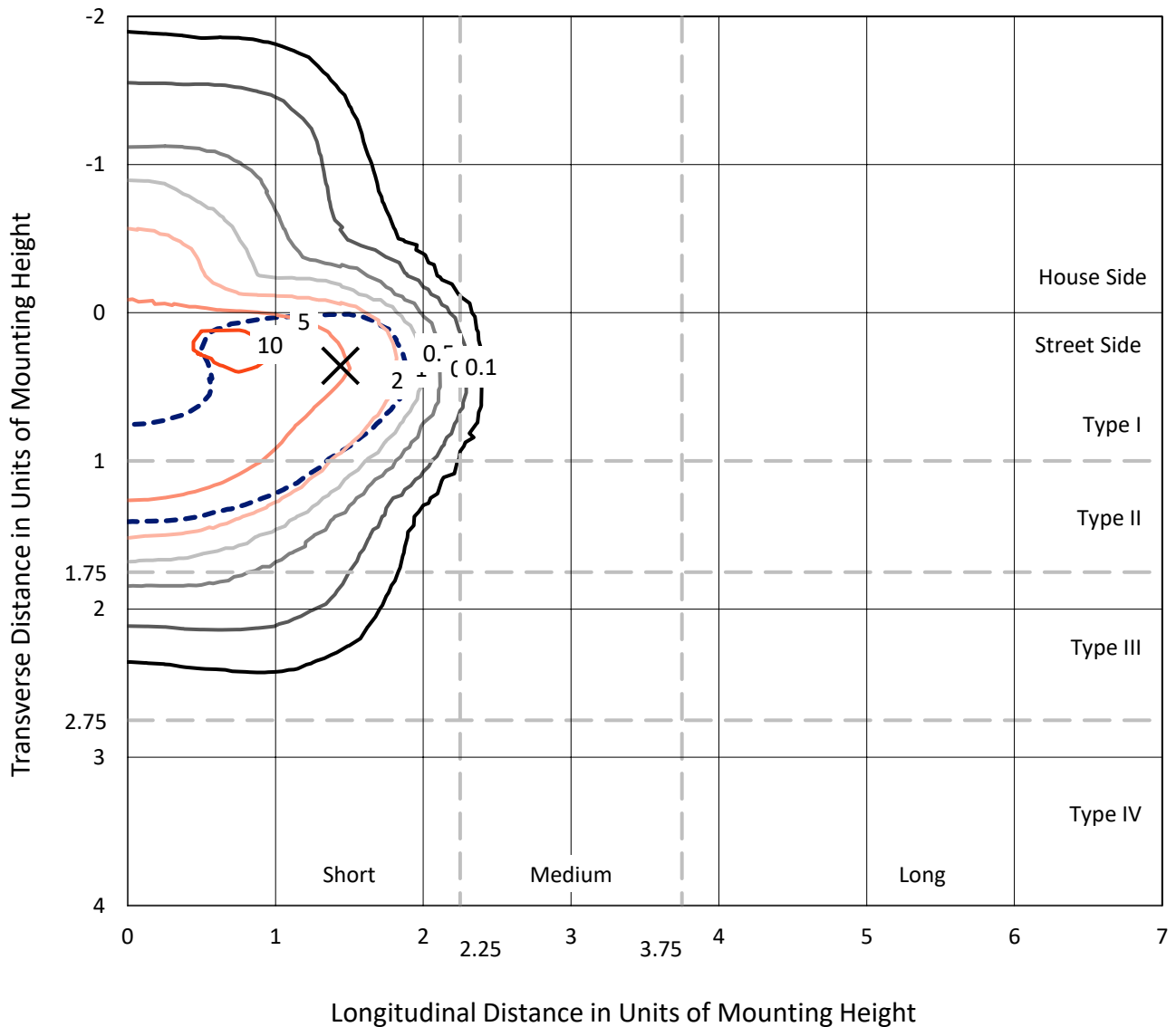
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

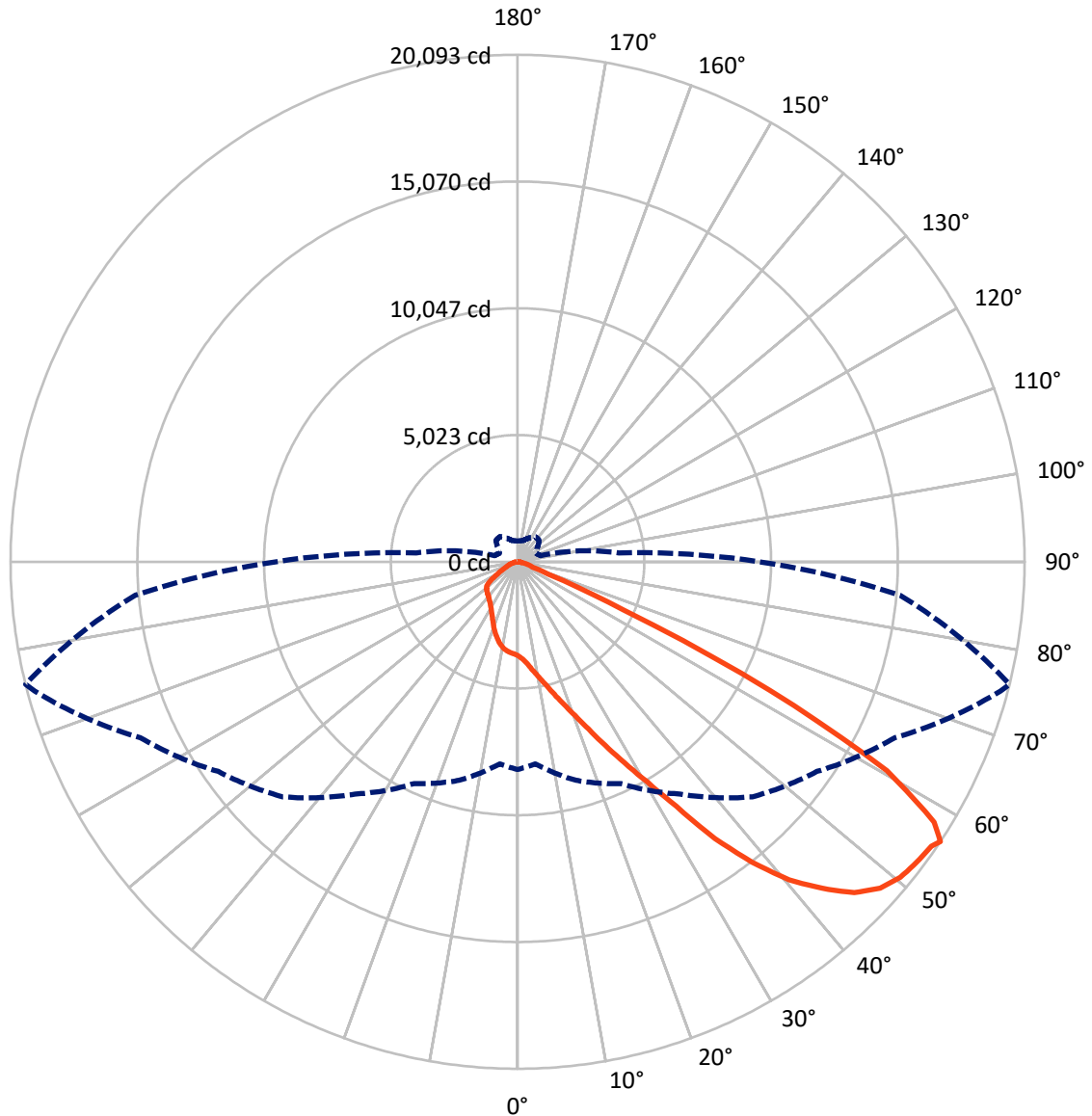
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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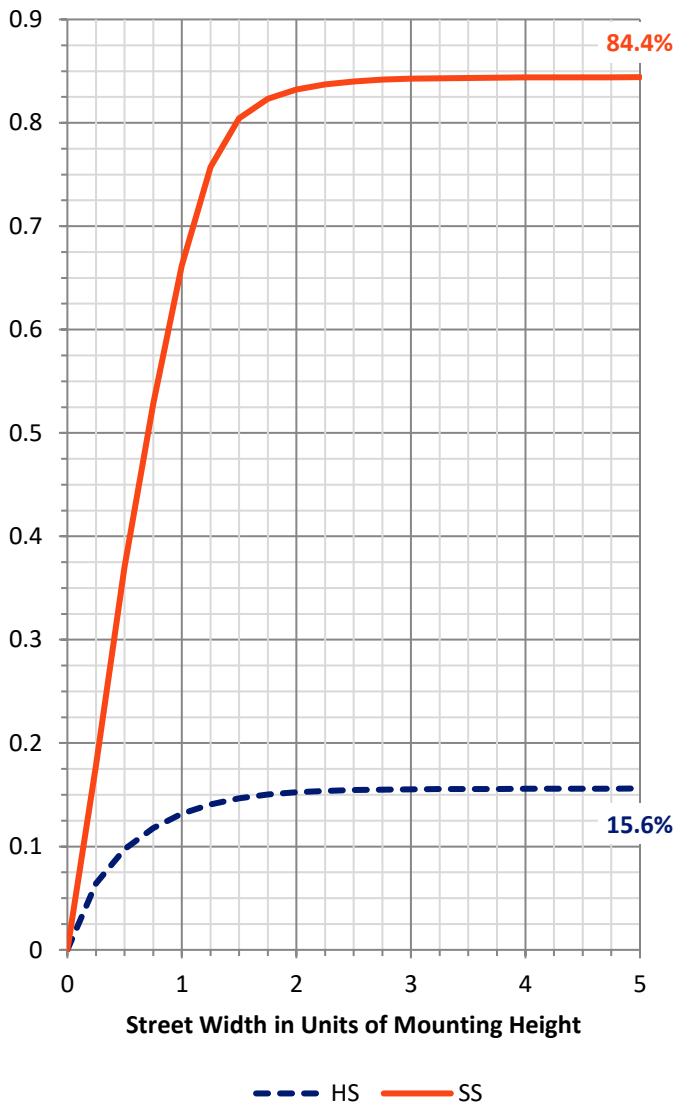
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3518.5	0.0	3518.5
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	18878.6	0.0	18878.6
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	22397.0	0.0	22397.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	375.5	1.7
10°-20°	1206.5	5.4
20°-30°	2187.7	9.8
30°-40°	3772.8	16.8
40°-50°	6129.0	27.4
50°-60°	6460.2	28.8
60°-70°	1973.9	8.8
70°-80°	253.0	1.1
80°-90°	38.5	0.2
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°	22397.0	100.0
0°-180°	22397.0	100.0

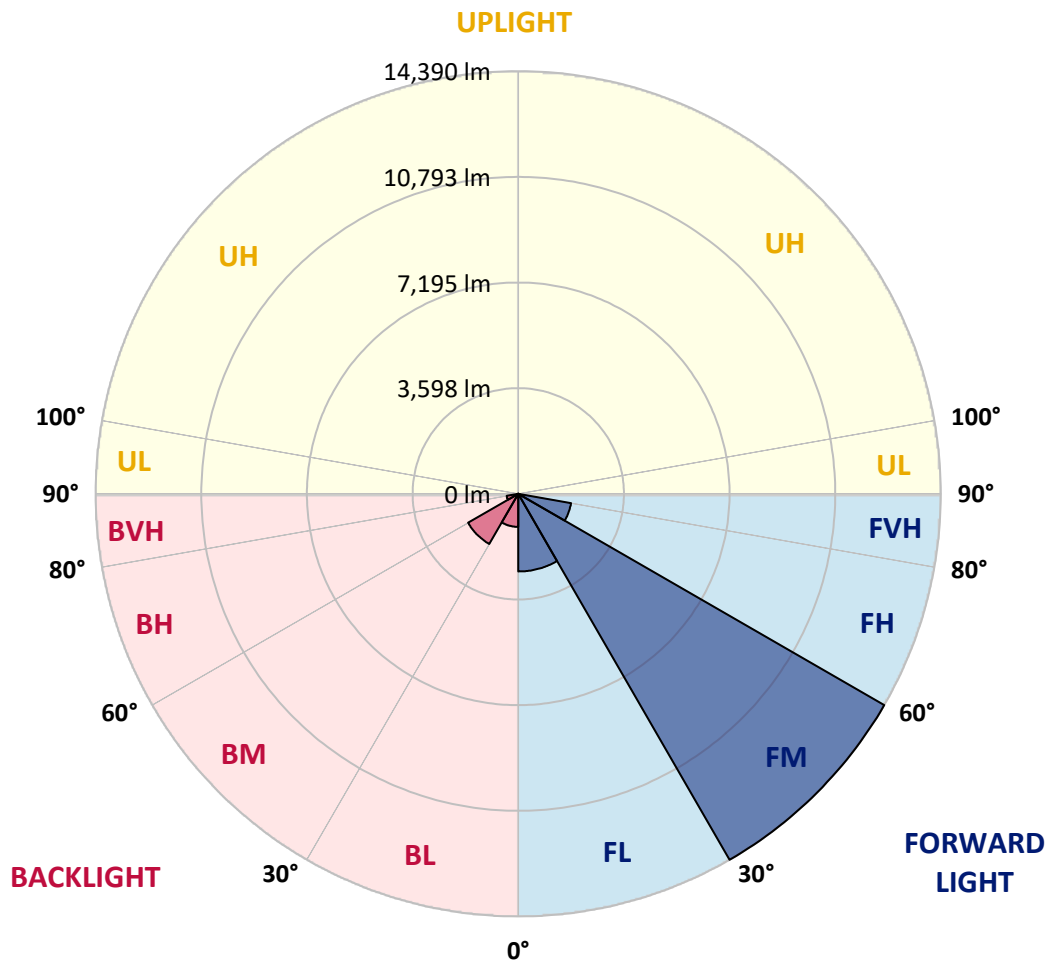


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2644.2	11.8			
FM (30°-60°)	14390.1	64.2			
FH (60°-80°)	1825.5	8.2			G2/5000
FVH (80°-90°)	18.8	0.1			G1/100
BL (0°-30°)	1125.6	5.0	B3/2500		
BM (30°-60°)	1971.9	8.8	B2/2500		
BH (60°-80°)	401.4	1.8	B1/500		G1/500
BVH (80°-90°)	19.6	0.1			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°	76°	85°
0°	3728.0	3728.0	3728.0	3728.0	3728.0	3728.0	3728.0	3728.0	3728.0	3728.0	3728.0
2.5°	4293.6	4194.5	4198.7	4190.4	4178.0	4132.6	3996.4	3975.7	3884.9	3860.1	3777.6
5°	4809.7	4723.0	4772.5	4698.2	4628.0	4586.7	4363.8	4260.6	4116.1	4062.4	3946.8
7.5°	5131.7	5090.4	5073.9	5078.0	5012.0	4908.8	4809.7	4582.6	4388.6	4347.3	4103.7
10°	5288.6	5263.8	5288.6	5276.2	5305.1	5317.5	5144.1	5007.8	4723.0	4652.8	4273.0
12.5°	5325.7	5375.3	5395.9	5449.6	5519.8	5639.5	5627.1	5441.3	5061.5	5016.1	4533.1
15°	5416.6	5457.8	5437.2	5523.9	5656.0	5858.3	5965.6	5936.7	5528.0	5445.5	4834.4
17.5°	5499.1	5424.8	5495.0	5668.4	5800.5	6110.1	6370.2	6490.0	6035.8	5940.9	5111.1
20°	5610.6	5590.0	5577.6	5664.3	5899.6	6312.4	6828.5	7047.3	6605.6	6506.5	5507.4
22.5°	5949.1	5953.3	5945.0	5817.0	5986.3	6452.8	7229.0	7769.8	7286.8	7204.2	5957.4
25°	6395.0	6341.3	6300.1	6196.8	6176.2	6580.8	7633.6	8653.3	8104.2	8046.4	6444.6
27.5°	6865.7	6865.7	6741.8	6646.8	6514.7	6898.7	8005.1	9512.0	9090.9	9012.5	6869.8
30°	7377.6	7406.5	7390.0	7187.7	7105.1	7245.5	8384.9	10610.2	10222.1	10123.0	7571.6
32.5°	8133.1	8071.2	8141.4	7972.1	7728.5	7852.4	8983.6	11592.8	11691.8	11551.5	8492.3
35°	9132.2	9095.0	9049.6	8773.0	8484.0	8583.1	9829.9	12802.4	13537.3	13467.1	9421.2
37.5°	10028.1	10007.4	9970.3	9780.4	9446.0	9565.7	10791.8	14061.6	15337.3	15106.1	10734.0
40°	10969.4	11080.8	10961.1	10791.8	10486.3	10750.6	11923.0	14808.8	16852.4	16571.7	11737.3
42.5°	12245.1	12158.4	12212.0	11902.4	11737.3	12026.3	13058.4	15556.1	18029.1	17694.7	12802.4
45°	13603.3	13607.5	13463.0	13363.9	12934.5	13248.3	13756.1	15968.9	18966.2	18706.1	13607.5
47.5°	14474.4	14470.3	14627.2	14784.1	14342.3	14032.7	14230.9	16361.2	19449.3	19329.5	13900.6
50°	14338.2	14379.5	14581.8	15168.0	15399.2	14982.2	14676.7	16245.6	19668.1	19655.7	14152.4
52.5°	12472.1	12608.4	12946.9	13793.2	14957.5	15473.5	15143.3	16460.2	19775.4	19796.0	14528.1
55°	9495.5	9569.8	10213.9	11241.8	12529.9	14296.9	14957.5	16629.5	19858.0	19895.1	14982.2
56°	8236.3	8038.1	8967.1	9697.8	11237.7	13169.8	14486.8	16497.4	19808.4	20093.3	15209.3
57.5°	6217.5	6085.4	6836.8	7749.2	9231.3	11270.7	13025.3	15874.0	19474.0	19469.9	14883.2
60°	3781.7	3649.6	4227.6	4764.3	5594.1	6940.0	8801.9	12641.4	16464.4	16811.2	12051.0
62.5°	2250.0	2332.6	2902.3	3228.5	3496.8	3637.2	4553.7	7513.8	10985.9	11233.6	7476.7
65°	1498.6	1527.5	1956.9	2493.6	2613.3	2080.8	1853.7	3042.7	4764.3	4611.5	3084.0
67.5°	924.8	990.8	1312.9	1874.3	2076.6	1519.3	879.4	1135.3	1312.9	1312.9	891.8
70°	561.5	594.5	875.2	1275.7	1424.3	978.4	639.9	639.9	631.7	619.3	532.6
72.5°	268.4	289.0	445.9	656.4	668.8	516.1	495.4	540.8	528.4	524.3	441.7
75°	115.6	123.9	156.9	206.4	235.3	218.8	301.4	388.1	400.5	388.1	317.9
77.5°	37.2	41.3	57.8	74.3	78.4	95.0	128.0	161.0	185.8	173.4	156.9
80°	4.1	8.3	16.5	37.2	57.8	74.3	95.0	107.3	119.7	119.7	111.5
82.5°	4.1	4.1	16.5	33.0	53.7	70.2	90.8	103.2	119.7	123.9	115.6
85°	0.0	4.1	12.4	28.9	45.4	45.4	41.3	41.3	28.9	28.9	28.9
87.5°	0.0	0.0	4.1	4.1	4.1	8.3	8.3	8.3	8.3	8.3	8.3
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°	3728.0	3728.0	3728.0	3728.0	3728.0	3728.0	3728.0	3728.0	3728.0	3728.0	3728.0
2.5°	3761.0	3752.8	3641.3	3571.1	3534.0	3459.7	3414.3	3381.2	3356.5	3327.6	3331.7
5°	3810.6	3781.7	3595.9	3467.9	3315.2	3232.6	3162.4	3104.6	3067.5	3059.2	3042.7
7.5°	3951.0	3798.2	3517.5	3286.3	3092.2	3009.7	2947.7	2910.6	2927.1	2889.9	2918.8
10°	4058.3	3831.2	3422.5	3088.1	2894.1	2832.1	2799.1	2828.0	2869.3	2852.8	2832.1
12.5°	4190.4	3864.3	3269.8	2898.2	2716.5	2671.1	2728.9	2782.6	2865.2	2898.2	2856.9
15°	4339.0	3901.4	3075.7	2679.4	2563.8	2600.9	2700.0	2795.0	2877.5	2918.8	2943.6
17.5°	4520.7	3889.0	2885.8	2506.0	2419.3	2526.6	2646.4	2733.1	2856.9	2918.8	2902.3
20°	4689.9	3847.7	2675.3	2332.6	2336.7	2435.8	2534.9	2675.3	2741.3	2823.9	2795.0
22.5°	4851.0	3773.4	2456.4	2212.9	2212.9	2365.6	2415.2	2506.0	2563.8	2605.1	2600.9
25°	5078.0	3633.1	2274.8	2097.3	2146.8	2245.9	2287.2	2316.1	2291.3	2324.3	2328.5
27.5°	5239.0	3488.6	2126.2	1994.1	2084.9	2159.2	2146.8	2130.3	2072.5	2027.1	2056.0
30°	5412.4	3319.3	1998.2	1923.9	1973.4	2039.5	1989.9	1940.4	1849.6	1775.2	1779.4
32.5°	5660.1	3240.9	1886.7	1841.3	1907.4	1915.6	1861.9	1787.6	1696.8	1626.6	1622.5
35°	6122.5	3191.3	1791.8	1787.6	1800.0	1804.1	1750.5	1659.6	1622.5	1564.7	1585.3
37.5°	6584.9	3166.5	1725.7	1709.2	1705.1	1709.2	1647.3	1560.6	1630.7	1626.6	1634.9
40°	7175.3	3278.0	1630.7	1610.1	1614.2	1614.2	1535.8	1511.0	1634.9	1647.3	1651.4
42.5°	7773.9	3418.4	1568.8	1502.8	1519.3	1519.3	1478.0	1449.1	1535.8	1453.2	1440.8
45°	8294.1	3624.8	1502.8	1395.4	1436.7	1457.4	1445.0	1395.4	1341.8	1201.4	1201.4
47.5°	8463.4	3806.5	1424.3	1292.2	1325.2	1416.1	1378.9	1275.7	1180.7	1065.1	1056.9
50°	8760.6	4004.6	1362.4	1172.5	1242.7	1354.1	1317.0	1213.8	1106.4	1023.9	1028.0
52.5°	9066.1	4231.7	1246.8	1032.1	1118.8	1304.6	1304.6	1189.0	1023.9	966.1	957.8
55°	9524.4	4223.4	1040.4	846.3	999.1	1230.3	1250.9	1065.1	916.5	871.1	871.1
56°	9590.5	4033.5	937.2	792.7	945.4	1209.6	1213.8	1032.1	875.2	825.7	825.7
57.5°	9095.0	3641.3	821.6	726.6	879.4	1172.5	1176.6	1003.2	842.2	772.0	763.8
60°	6997.8	2464.7	685.3	648.2	796.8	1056.9	1077.5	912.4	739.0	685.3	681.2
62.5°	3951.0	1366.5	602.8	586.2	685.3	900.0	961.9	796.8	627.5	598.6	606.9
65°	1804.1	751.4	507.8	474.8	553.2	693.6	776.2	656.4	516.1	483.0	483.0
67.5°	660.6	511.9	433.5	375.7	388.1	450.0	503.7	425.2	342.7	293.1	305.5
70°	470.6	429.4	379.8	326.1	301.4	293.1	289.0	239.5	169.3	132.1	140.4
72.5°	379.8	355.0	317.9	276.6	235.3	198.2	169.3	123.9	78.4	53.7	49.5
75°	272.5	260.1	231.2	198.2	165.1	140.4	115.6	78.4	41.3	20.6	20.6
77.5°	140.4	140.4	136.2	123.9	103.2	82.6	66.1	45.4	24.8	8.3	8.3
80°	107.3	115.6	119.7	107.3	95.0	74.3	53.7	33.0	16.5	4.1	4.1
82.5°	103.2	119.7	128.0	111.5	95.0	70.2	53.7	33.0	16.5	4.1	4.1
85°	24.8	24.8	37.2	41.3	53.7	57.8	45.4	28.9	12.4	4.1	4.1
87.5°	8.3	8.3	8.3	8.3	8.3	8.3	4.1	4.1	4.1	4.1	0.0
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)