

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: P651157

Luminaire Tested: **GALN-SA9C-840-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651157  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-840-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53639.8 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

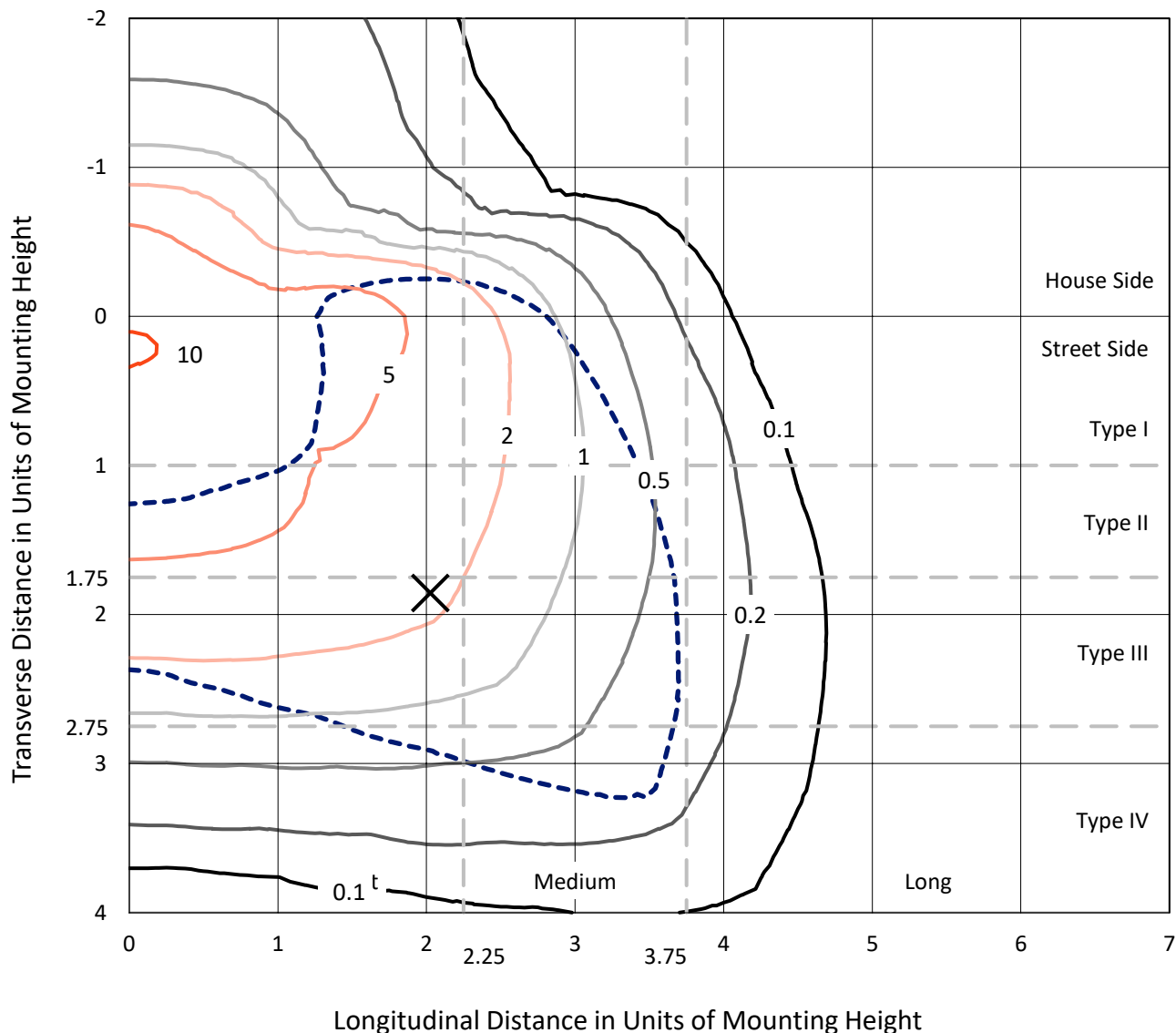
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

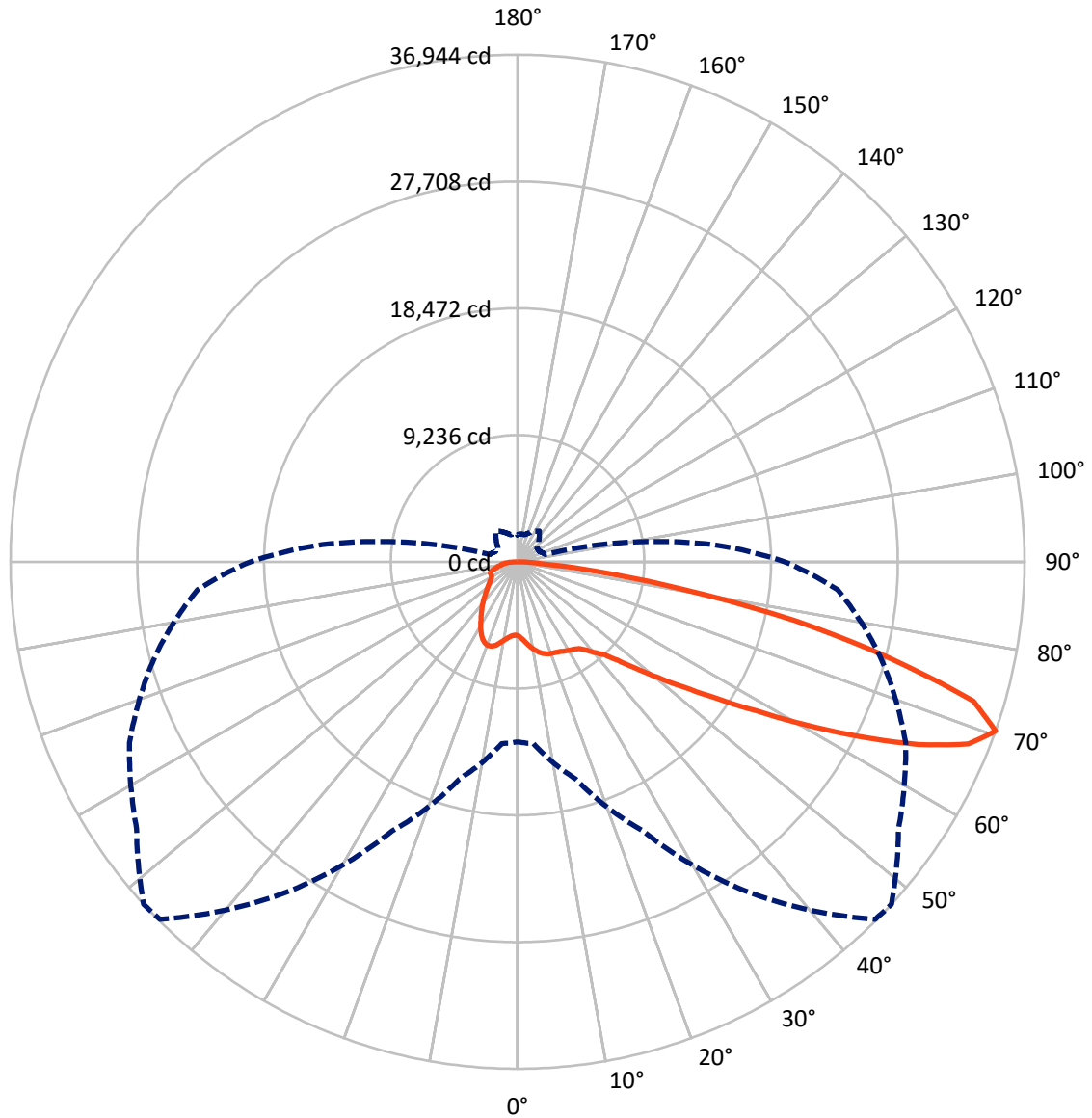
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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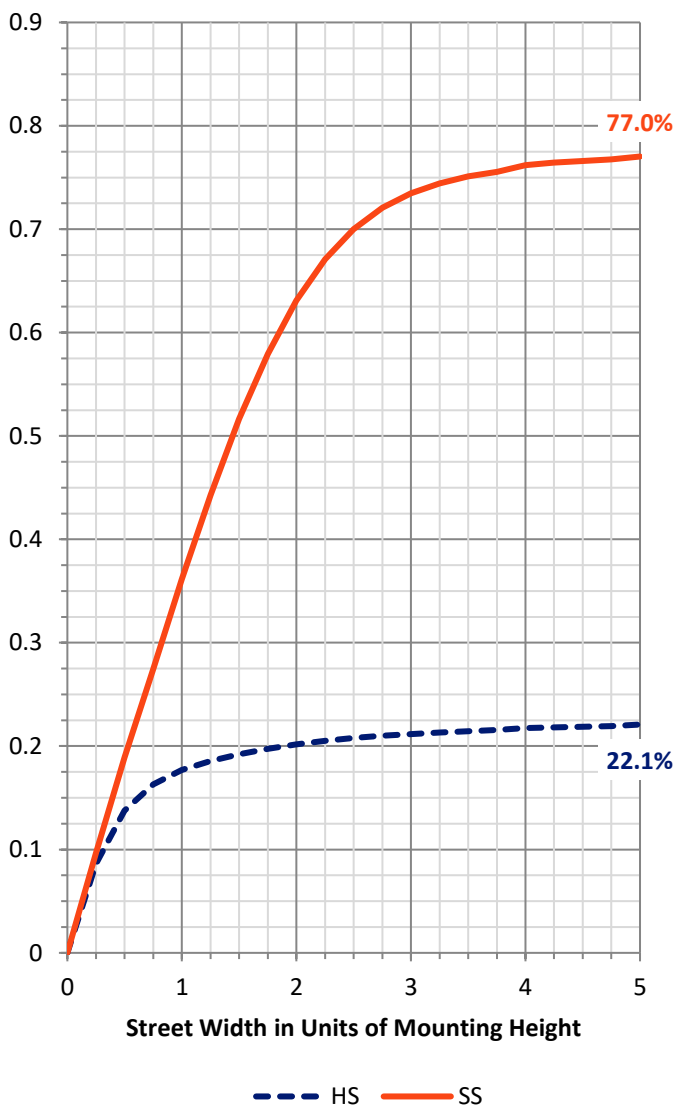
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12145.1	0.0	12145.1
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	41494.7	0.0	41494.7
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	53639.8	0.0	53639.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	555.1	1.0
10°-20°	1855.6	3.5
20°-30°	3085.9	5.8
30°-40°	4373.7	8.2
40°-50°	6456.6	12.0
50°-60°	11183.1	20.8
60°-70°	15796.4	29.4
70°-80°	9080.6	16.9
80°-90°	1252.9	2.3
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°	53639.8	100.0
0°-180°	53639.8	100.0

**Coefficient of Utilization**

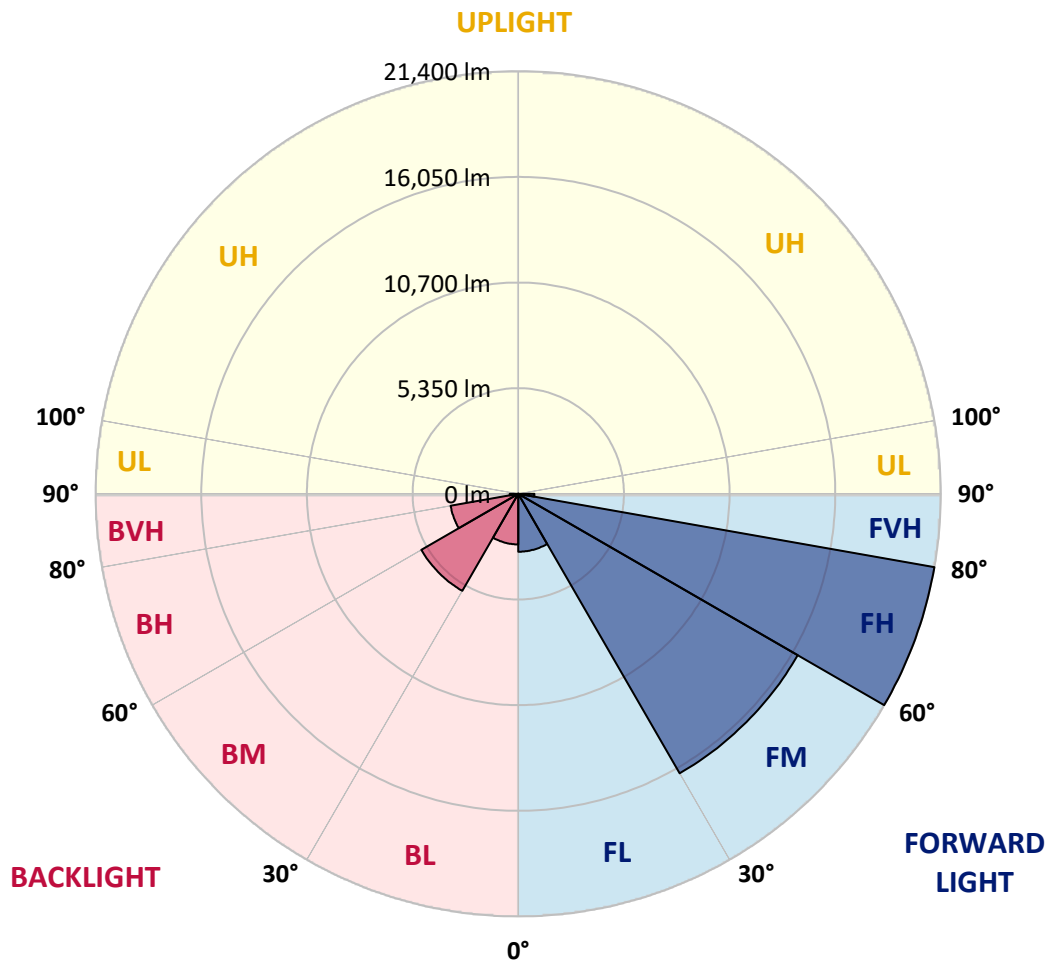


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2933.2	5.5			
FM (30°-60°)	16343.0	30.5			
FH (60°-80°)	21400.1	39.9			G5
FVH (80°-90°)	818.4	1.5			G5
BL (0°-30°)	2563.3	4.8	B4/5000		
BM (30°-60°)	5670.3	10.6	B4/8500		
BH (60°-80°)	3477.0	6.5	B4/5000		G4/5000
BVH (80°-90°)	434.5	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	5384.8	5384.8	5384.8	5384.8	5384.8	5384.8	5384.8	5384.8	5384.8	5384.8	5384.8
2.5°	5732.1	5712.0	5709.1	5666.1	5643.1	5600.1	5582.8	5542.7	5493.8	5445.1	5399.1
5°	6182.8	6182.8	6162.7	6102.4	6007.7	5910.0	5867.0	5789.5	5651.8	5539.8	5445.1
7.5°	6644.9	6650.6	6610.4	6521.5	6386.6	6228.7	6188.5	6073.7	5878.5	5714.8	5574.2
10°	7043.9	7043.9	6989.3	6868.8	6699.4	6527.2	6487.0	6357.9	6139.7	5935.9	5752.2
12.5°	7348.2	7348.2	7276.3	7118.5	6934.8	6779.8	6733.9	6610.4	6406.7	6179.9	5947.4
15°	7546.2	7531.8	7451.4	7273.5	7095.5	6960.6	6929.1	6825.7	6639.1	6409.5	6148.3
17.5°	7554.8	7549.1	7471.5	7322.3	7167.3	7075.4	7055.3	6986.4	6840.1	6621.9	6346.4
20°	7388.3	7399.8	7348.2	7241.9	7167.3	7127.1	7118.5	7095.5	6992.2	6788.4	6512.9
22.5°	7210.3	7230.4	7181.6	7124.2	7118.5	7158.7	7164.4	7170.1	7104.2	6906.1	6653.5
25°	7167.3	7181.6	7132.9	7081.1	7112.8	7219.0	7241.9	7264.9	7213.2	7046.7	6820.0
27.5°	7385.4	7374.0	7279.2	7167.3	7187.4	7330.9	7362.5	7388.3	7362.5	7219.0	7026.6
30°	8002.5	7965.3	7775.8	7448.6	7345.2	7445.7	7477.2	7549.1	7549.1	7442.8	7250.5
32.5°	9035.9	8964.1	8616.8	7973.9	7615.1	7554.8	7586.3	7704.1	7764.3	7681.1	7471.5
35°	10290.2	10215.6	9719.0	8855.1	8108.8	7772.9	7764.3	7896.3	8057.1	7870.5	7597.8
37.5°	11550.3	11472.8	10875.8	9905.6	8829.2	8232.2	8180.5	8226.4	8295.4	7953.8	7772.9
40°	12810.4	12718.5	12196.2	11079.6	9710.4	8840.7	8705.8	8499.1	8470.5	8226.4	8111.6
42.5°	14059.0	13975.7	13711.7	12397.1	10766.7	9434.8	9228.2	8872.3	8981.4	8835.0	8734.5
45°	15319.1	15324.9	15043.6	13875.3	12041.2	10531.3	10252.9	9696.1	9954.4	9899.8	9957.3
47.5°	16435.7	16421.3	16320.9	15310.5	13622.7	11943.5	11584.8	10939.0	11381.0	11581.9	12021.1
50°	17517.8	17509.2	17514.9	16938.0	15459.8	13622.7	13226.6	12549.2	13545.2	14242.8	15029.2
52.5°	19067.8	19116.6	18769.3	18617.1	17692.9	15606.1	15169.9	14469.5	16102.7	17202.1	18737.7
55°	20623.5	20583.3	20310.7	20468.5	20029.3	17954.1	17497.7	16940.9	18950.1	20152.8	22460.6
57.5°	21539.2	21553.5	21831.9	22604.1	22914.1	20881.9	20468.5	20038.0	22150.6	23003.0	25772.9
60°	22362.9	22429.0	23229.8	24688.0	25529.0	24478.4	24111.0	23692.0	25086.9	25425.6	28649.1
62.5°	22621.3	22825.1	24223.0	26404.5	28077.9	28537.1	28080.7	27156.5	27882.7	27750.6	30598.0
65°	21332.5	21610.9	24116.8	27047.4	30354.0	32389.1	32099.2	30382.7	30265.1	29470.0	30916.6
67.5°	17939.7	18218.2	21435.8	25698.4	31295.5	35724.5	35434.6	32736.4	31711.8	29630.7	28505.5
70°	13126.2	13301.3	16378.3	21636.7	29404.0	36844.0	36944.4	33884.6	31195.0	27446.4	23404.9
72.5°	7563.4	7950.9	10106.5	15221.5	24022.1	34013.7	34711.3	31496.5	27928.6	22896.8	16363.9
75°	3252.1	3260.7	4672.9	8395.8	16269.2	27340.2	28014.7	26108.8	21932.4	15832.9	8737.4
77.5°	1547.1	1575.9	2055.2	3748.7	8955.6	18889.9	20709.6	18444.9	14027.5	7606.4	3300.9
80°	1004.7	1024.8	1257.2	1860.0	4391.6	10953.3	12222.0	10640.4	6188.5	2718.2	1423.7
82.5°	608.5	614.3	841.0	1136.7	2416.9	4960.0	5846.9	4618.4	2640.7	1627.5	838.1
85°	370.3	373.2	510.9	703.2	1466.8	1713.6	1759.5	1745.2	1550.0	1064.9	447.7
87.5°	178.0	183.7	264.1	333.0	576.9	531.0	502.3	582.6	731.9	574.1	192.3
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°	5384.8	5384.8	5384.8	5384.8	5384.8	5384.8	5384.8	5384.8	5384.8	5384.8	5384.8
2.5°	5379.0	5370.5	5350.4	5341.7	5336.0	5338.8	5336.0	5336.0	5338.8	5338.8	5338.8
5°	5404.9	5390.6	5358.9	5358.9	5376.2	5416.4	5453.7	5482.4	5513.9	5511.1	5511.1
7.5°	5516.8	5491.0	5453.7	5465.2	5508.2	5571.4	5637.4	5700.6	5763.7	5769.4	5766.6
10°	5680.5	5654.6	5614.4	5628.8	5697.7	5792.4	5875.6	5967.5	6036.4	6056.5	6050.7
12.5°	5867.0	5815.3	5780.9	5821.1	5930.1	6056.5	6136.9	6205.7	6254.5	6283.2	6271.8
15°	6056.5	6007.7	5967.5	6050.7	6182.8	6300.4	6340.6	6352.1	6360.7	6389.4	6383.7
17.5°	6240.1	6174.1	6159.8	6268.9	6395.1	6446.9	6423.9	6375.0	6337.8	6360.7	6357.9
20°	6403.8	6352.1	6346.4	6455.4	6504.2	6455.4	6357.9	6271.8	6205.7	6211.5	6208.6
22.5°	6558.8	6518.6	6524.3	6570.2	6492.8	6326.3	6165.5	6047.9	5976.1	5990.4	5999.0
25°	6731.0	6690.8	6705.1	6630.5	6375.0	6085.1	5852.7	5752.2	5723.5	5752.2	5772.3
27.5°	6954.9	6929.1	6920.4	6633.4	6165.5	5729.2	5465.2	5427.8	5453.7	5516.8	5548.4
30°	7196.0	7196.0	7150.1	6584.6	5878.5	5301.6	5071.9	5077.7	5166.7	5255.7	5287.2
32.5°	7428.5	7477.2	7333.8	6452.6	5508.2	4885.4	4710.3	4716.0	4793.5	4902.6	4931.3
35°	7620.8	7761.4	7491.6	6211.5	5071.9	4535.2	4403.1	4325.6	4328.5	4411.7	4434.7
37.5°	7884.9	8146.1	7583.5	5852.7	4606.9	4236.6	4087.4	3952.4	3863.5	3829.1	3829.1
40°	8344.1	8728.7	7606.4	5321.7	4167.7	3952.4	3740.1	3579.3	3407.1	3252.1	3223.4
42.5°	9122.0	9607.1	7560.5	4710.3	3771.6	3639.6	3433.0	3234.9	2996.7	2778.5	2761.3
45°	10499.8	10749.5	7437.1	4075.9	3418.6	3338.3	3137.3	2922.1	2669.4	2474.2	2459.9
47.5°	12707.1	12354.0	7273.5	3513.3	3097.2	3074.2	2919.2	2669.4	2416.9	2282.0	2267.6
50°	15930.5	14879.9	7250.5	3105.7	2838.8	2850.2	2724.0	2494.3	2273.3	2161.4	2144.1
52.5°	19811.2	17931.1	7402.7	2818.7	2612.1	2655.1	2592.0	2379.5	2184.3	2089.6	2072.4
55°	23577.1	20675.2	7494.5	2594.8	2399.6	2480.0	2488.6	2310.6	2132.7	2038.0	2026.5
57.5°	26634.0	22741.8	7086.9	2391.0	2216.0	2339.3	2402.5	2270.4	2106.9	2035.1	2023.6
60°	28761.0	23717.8	5927.3	2210.1	2081.0	2227.4	2370.9	2273.3	2170.0	2178.6	2184.3
62.5°	29438.4	23284.3	4446.2	2075.3	1989.1	2190.0	2422.6	2391.0	2284.8	2350.8	2362.3
65°	28316.0	21493.3	3223.4	1969.0	1908.8	2216.0	2577.6	2477.1	2244.6	2293.4	2293.4
67.5°	24558.8	18516.7	2508.7	1871.5	1816.9	2264.7	2732.6	2468.5	2149.9	2207.3	2155.7
70°	19481.1	14323.1	2089.6	1762.4	1719.3	2193.0	2747.0	2379.5	2038.0	2049.4	1951.9
72.5°	12928.1	9417.7	1796.9	1659.0	1570.1	1972.0	2629.2	2264.7	1928.9	1862.9	1765.3
75°	6334.9	4695.9	1567.2	1529.9	1374.9	1716.5	2468.5	2155.7	1811.2	1707.9	1653.3
77.5°	2454.1	1997.8	1337.6	1366.3	1196.9	1512.7	2256.1	2000.7	1656.2	1515.6	1472.5
80°	1191.2	1133.8	1096.5	1139.6	984.6	1288.8	2061.0	1865.8	1512.7	1357.7	1294.6
82.5°	740.6	700.4	841.0	886.9	757.7	1176.8	1954.7	1750.9	1331.8	1125.2	1073.5
85°	376.0	401.8	562.6	605.6	542.5	935.7	1610.3	1314.7	961.6	797.9	803.7
87.5°	143.6	192.3	295.6	318.6	289.9	493.7	886.9	766.4	617.1	419.1	387.5
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)