

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: P650991

Luminaire Tested: **GALN-SA6C-840-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650991  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-840-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25363.7 lumens  
Efficiency: N/A  
Efficacy: 79.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

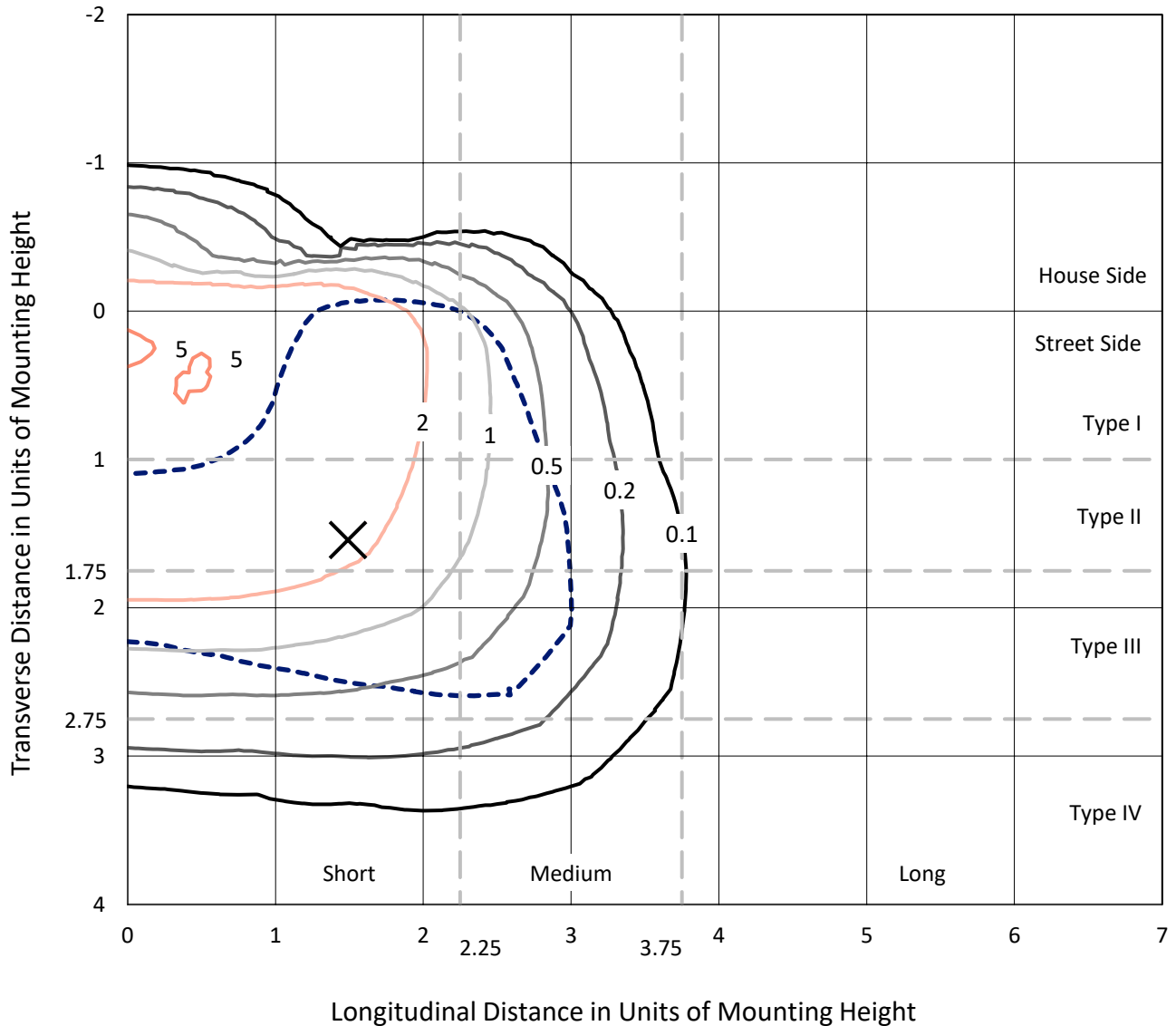
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

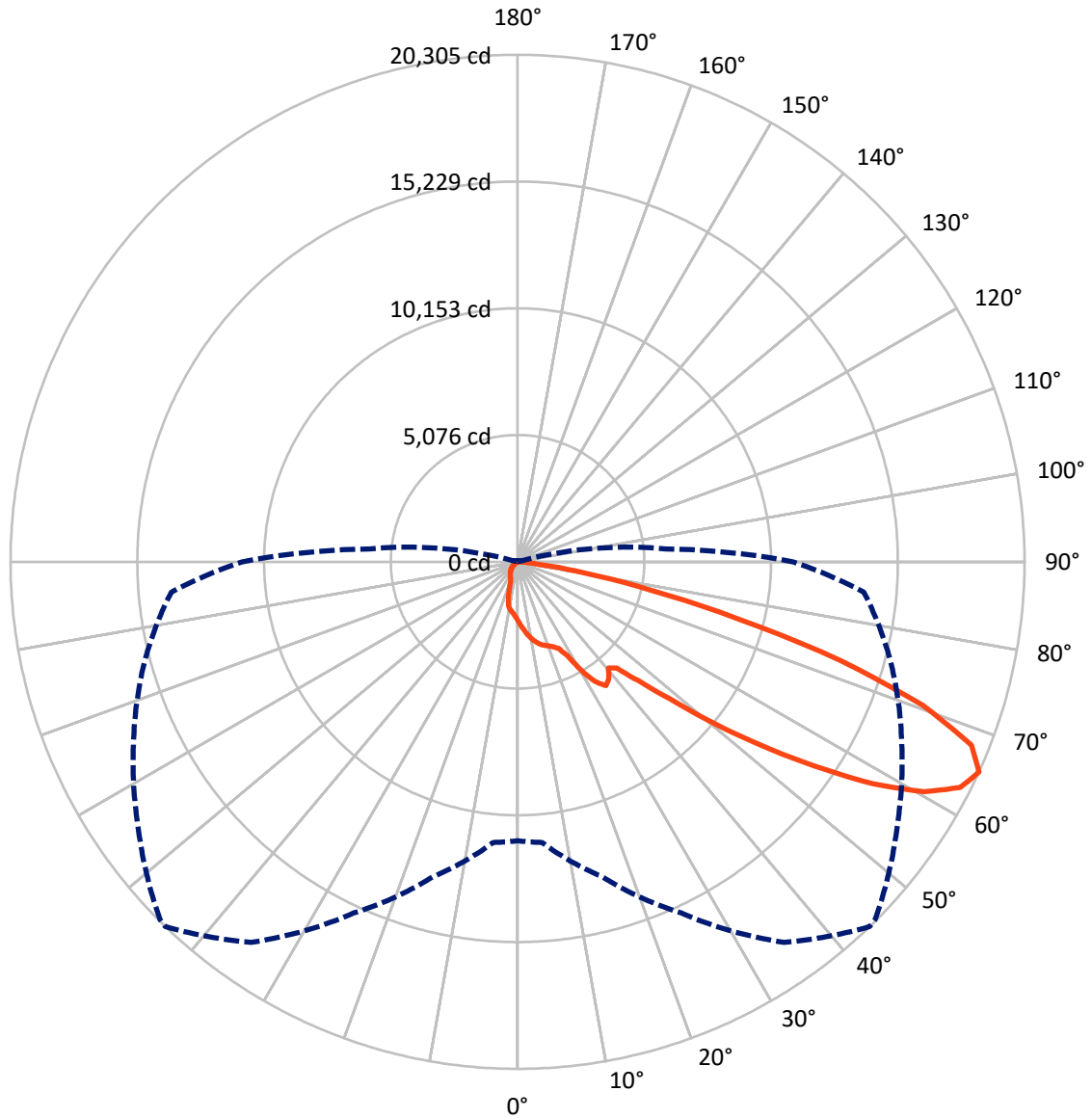
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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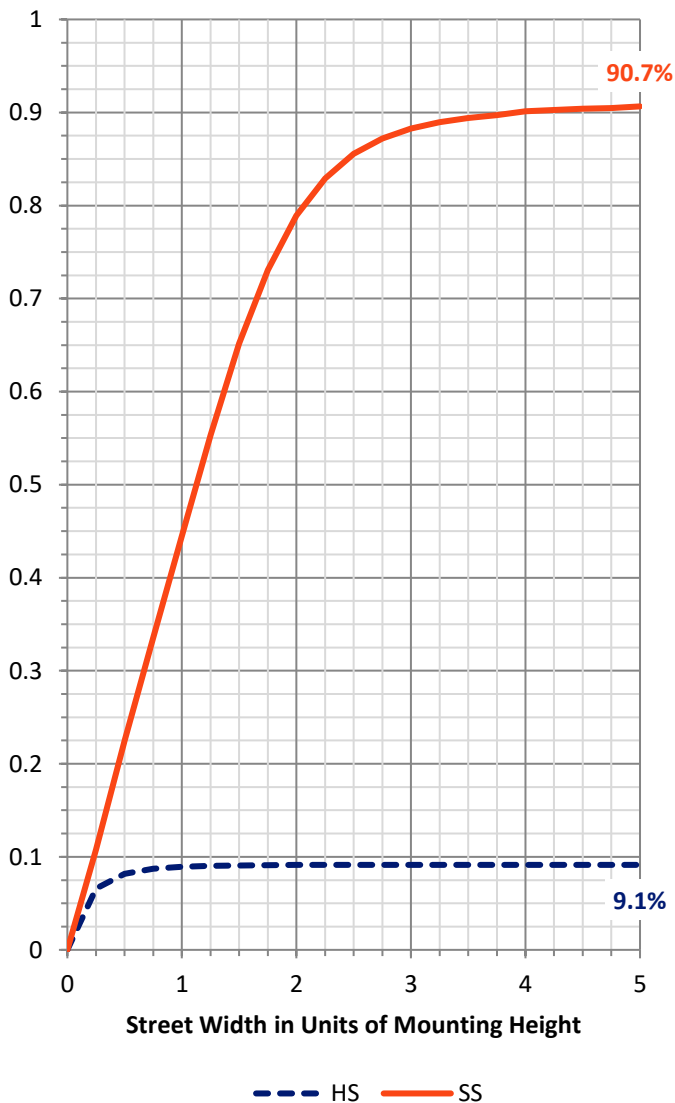
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2336.9	0.0	2336.9
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	23026.8	0.0	23026.8
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	25363.7	0.0	25363.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.8	0.9
10°-20°	706.6	2.8
20°-30°	1198.2	4.7
30°-40°	1992.2	7.9
40°-50°	3478.4	13.7
50°-60°	6795.6	26.8
60°-70°	7884.5	31.1
70°-80°	2871.1	11.3
80°-90°	202.3	0.8
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°	25363.7	100.0
0°-180°	25363.7	100.0



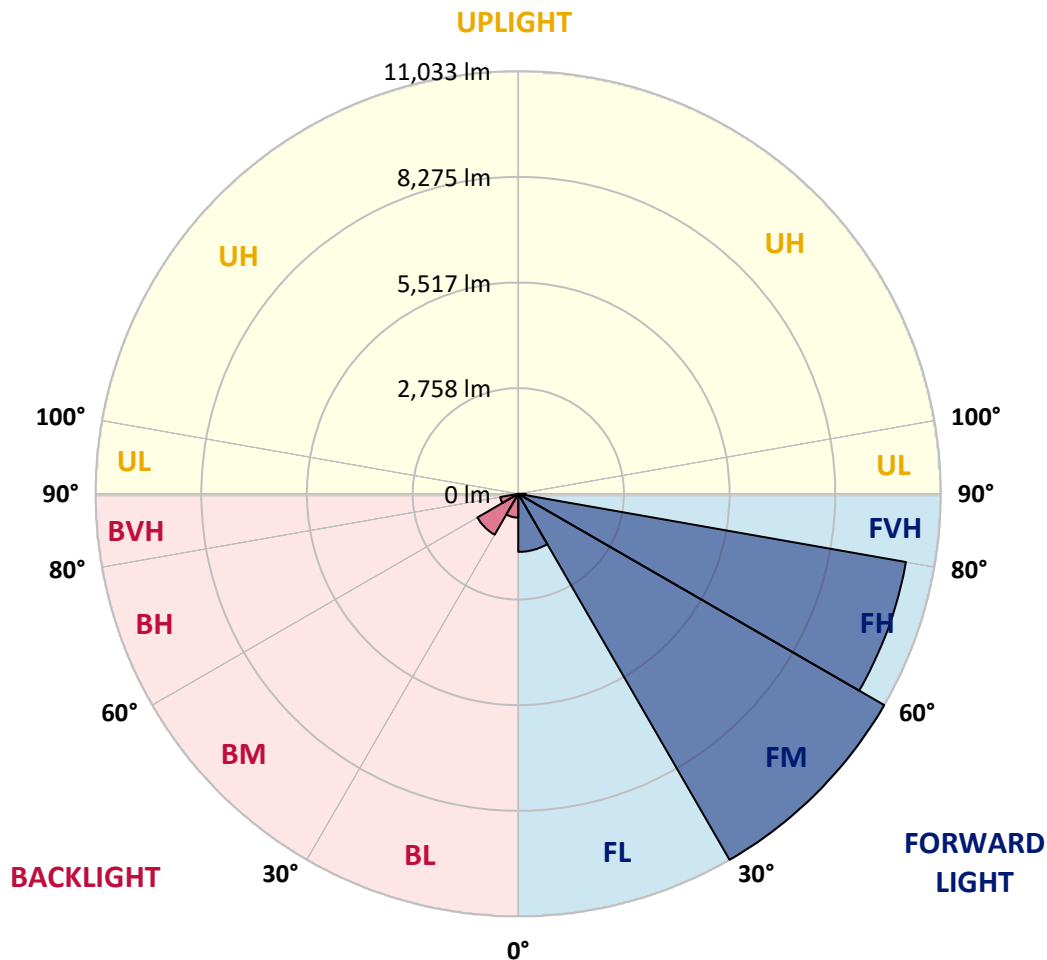
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1517.0	6.0			
FM (30°-60°)	11033.3	43.5			
FH (60°-80°)	10277.0	40.5			G4/12000
FVH (80°-90°)	199.5	0.8			G2/225
BL (0°-30°)	622.6	2.5	B2/1000		
BM (30°-60°)	1233.0	4.9	B2/2500		
BH (60°-80°)	478.6	1.9	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2360.6	2360.6	2360.6	2360.6	2360.6	2360.6	2360.6	2360.6	2360.6	2360.6	2360.6
2.5°	2657.1	2645.5	2639.7	2608.7	2585.4	2556.4	2556.4	2519.6	2476.9	2430.4	2387.8
5°	2953.7	2934.2	2909.1	2881.9	2827.7	2750.2	2750.2	2672.6	2583.5	2504.0	2416.8
7.5°	3238.6	3221.1	3178.5	3126.2	3037.0	2955.6	2949.8	2837.4	2730.8	2610.6	2486.6
10°	3488.6	3475.0	3438.2	3337.4	3244.4	3137.8	3135.8	3009.9	2885.8	2738.5	2585.4
12.5°	3663.0	3664.9	3616.5	3519.6	3399.4	3298.7	3290.9	3166.9	3037.0	2878.1	2690.1
15°	3787.0	3787.0	3736.6	3628.2	3519.6	3430.4	3422.7	3314.1	3180.4	3007.9	2804.4
17.5°	3821.9	3833.5	3779.3	3682.4	3595.2	3517.7	3515.7	3424.6	3318.0	3151.3	2920.7
20°	3808.4	3820.0	3777.4	3701.7	3641.7	3597.1	3591.3	3554.5	3455.7	3298.7	3044.8
22.5°	3779.3	3790.9	3759.9	3715.4	3686.3	3699.8	3690.1	3721.2	3668.9	3478.9	3192.0
25°	3785.1	3796.8	3773.5	3748.3	3773.5	3856.8	3882.1	4015.8	3969.3	3707.5	3351.0
27.5°	3967.2	3990.5	3957.6	3969.3	4058.4	4252.2	4300.6	4531.3	4325.9	3998.3	3599.1
30°	4372.4	4356.9	4294.8	4351.0	4661.2	5072.0	5058.4	5021.6	4699.9	4333.6	3893.7
32.5°	4740.6	4727.0	4723.1	4965.4	5527.5	5727.1	5717.4	5360.8	5035.2	4717.3	4184.4
35°	4889.8	4837.5	4825.9	5413.1	6353.1	6089.5	6029.5	5500.3	5442.2	5136.0	4480.8
37.5°	5339.4	5302.7	5122.4	5486.8	6023.6	5936.4	5889.9	5740.7	5876.3	5506.1	4816.2
40°	6265.9	6163.2	6000.4	5643.8	5556.6	5593.3	5639.8	6048.8	6389.9	6012.0	5263.9
42.5°	7417.1	7393.8	7091.5	6426.8	5773.6	5824.0	5884.1	6692.3	7128.3	6773.7	5994.6
45°	8799.0	8831.9	8395.9	7610.9	6754.2	6796.9	6884.1	7641.9	8128.4	7957.9	7143.9
47.5°	10054.8	10029.7	9882.3	9066.4	8275.7	8180.7	8322.2	8861.0	9512.2	9539.3	8570.3
50°	11318.5	11452.2	11233.2	10913.4	10326.2	10126.6	10074.3	10337.8	11330.1	11200.3	10283.6
52.5°	13134.5	13204.3	12793.4	12712.0	12845.7	12198.4	12146.1	12210.1	13097.6	12651.9	11566.6
55°	14276.1	14235.4	14082.2	14717.9	15247.0	14438.9	14372.9	14115.2	14564.9	13677.2	12801.1
57.5°	14636.5	14694.7	15051.3	16200.6	17452.6	16766.5	16646.3	15913.7	15623.0	14632.6	13936.9
60°	14475.6	14582.3	15351.7	17061.1	18797.6	18694.9	18592.2	17361.5	16382.8	15431.2	14733.4
62.5°	13330.3	13479.5	14710.2	16908.0	19253.1	19894.6	19766.7	18264.7	16888.6	15818.8	14873.0
65°	11171.2	11281.7	13049.2	15518.4	18605.8	20305.4	20258.9	18547.6	16968.1	15464.1	13917.5
67.5°	7963.7	8339.6	9977.4	13078.3	16690.9	19603.9	19683.4	18208.5	16221.9	13931.1	11525.9
70°	5006.1	5262.0	6436.4	9362.9	13380.6	17198.7	17460.3	16656.0	14078.3	10859.2	7715.6
72.5°	2387.8	2577.7	3415.0	5926.7	9444.3	13531.8	13739.2	13673.3	10886.3	6841.5	3980.9
75°	1064.0	1135.7	1629.9	3025.4	6097.2	9095.5	9632.4	9721.5	6802.8	3347.1	1548.5
77.5°	542.7	544.6	763.6	1465.2	3044.8	5426.7	5533.3	5845.3	3688.2	1474.9	538.8
80°	288.8	308.1	405.0	691.9	1579.6	2672.6	2659.1	2922.6	1635.7	722.9	180.2
82.5°	129.9	143.4	228.7	362.4	771.4	1013.7	1093.0	1195.8	701.6	461.3	79.5
85°	38.8	46.5	112.4	182.2	279.1	292.7	327.6	422.5	397.3	327.6	40.7
87.5°	5.8	5.8	46.5	50.4	40.7	52.3	54.2	60.0	127.9	120.2	21.3
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°	2360.6	2360.6	2360.6	2360.6	2360.6	2360.6	2360.6	2360.6	2360.6	2360.6	2360.6
2.5°	2364.5	2350.9	2302.5	2261.8	2226.9	2205.5	2180.4	2164.8	2157.1	2151.3	2153.2
5°	2374.1	2341.3	2257.9	2192.0	2141.6	2087.4	2050.5	2029.2	2019.5	2004.0	2004.0
7.5°	2428.5	2376.1	2259.9	2159.0	2071.8	1998.2	1928.4	1903.2	1885.8	1881.9	1878.0
10°	2505.9	2440.1	2281.1	2141.6	2017.6	1916.8	1817.9	1730.7	1662.9	1622.2	1616.4
12.5°	2602.9	2507.9	2314.1	2130.0	1971.1	1792.8	1531.1	1354.8	1236.5	1199.7	1205.5
15°	2692.0	2589.3	2347.1	2120.2	1885.8	1486.6	1190.0	988.4	928.4	922.6	924.5
17.5°	2798.6	2676.5	2385.8	2106.7	1651.2	1135.7	883.8	829.5	841.2	860.5	858.6
20°	2909.1	2769.6	2432.3	2025.3	1317.9	854.7	781.0	786.8	804.3	821.7	825.6
22.5°	3027.3	2876.1	2486.6	1829.6	1005.8	744.2	740.3	748.1	765.6	784.9	788.8
25°	3190.1	3009.9	2527.3	1573.8	761.7	688.0	695.8	709.4	724.9	746.1	750.0
27.5°	3399.4	3190.1	2548.6	1240.4	658.9	637.6	639.6	658.9	678.4	697.7	697.7
30°	3670.8	3405.2	2505.9	938.1	608.5	589.2	581.5	593.1	618.2	637.6	639.6
32.5°	3913.0	3608.7	2393.6	717.1	571.7	544.6	525.2	527.1	536.9	548.5	550.4
35°	4155.3	3806.5	2201.7	602.7	532.9	502.0	472.9	457.4	449.6	443.8	449.6
37.5°	4465.4	4052.5	1945.8	548.5	500.1	461.3	420.6	387.6	360.5	343.0	346.9
40°	4864.6	4393.6	1643.5	513.6	469.0	422.5	368.3	325.6	279.1	263.6	255.8
42.5°	5523.6	4911.1	1325.7	484.5	438.0	381.8	313.9	255.8	213.2	197.7	201.6
45°	6564.3	5564.3	1021.4	453.6	407.0	337.2	263.6	201.6	166.7	158.9	162.8
47.5°	7944.3	6409.3	786.8	418.6	368.3	288.8	207.4	158.9	137.6	135.7	133.7
50°	9242.8	7196.2	657.0	379.9	321.8	240.4	170.6	133.7	120.2	118.2	118.2
52.5°	10417.3	7760.2	534.9	335.3	271.3	197.7	143.4	118.2	106.6	100.8	100.8
55°	11461.9	8128.4	434.1	281.1	213.2	157.0	124.0	106.6	93.0	85.3	83.3
57.5°	12250.8	8173.0	325.6	224.8	158.9	122.1	106.6	93.0	77.5	67.9	63.9
60°	12587.9	7787.3	240.4	170.6	118.2	96.9	85.3	75.6	58.1	48.4	46.5
62.5°	12248.8	7037.2	178.3	129.9	91.1	71.7	60.0	56.2	40.7	29.1	27.2
65°	11033.6	5953.9	141.5	98.8	67.9	52.3	38.8	36.8	25.2	13.5	11.6
67.5°	8839.7	4663.1	112.4	73.7	48.4	34.9	25.2	23.3	13.5	3.9	3.9
70°	5748.4	2980.8	91.1	54.2	31.0	23.3	15.5	11.6	7.7	1.9	0.0
72.5°	2843.2	1393.5	73.7	42.6	21.3	11.6	5.8	3.9	5.8	0.0	0.0
75°	1102.8	496.2	54.2	29.1	11.6	5.8	3.9	0.0	1.9	0.0	0.0
77.5°	366.3	164.8	33.0	15.5	7.7	3.9	0.0	0.0	0.0	0.0	0.0
80°	135.7	63.9	17.4	9.7	3.9	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	54.2	25.2	11.6	7.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.2	15.5	7.7	5.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.3	11.6	7.7	5.8	3.9	1.9	0.0	0.0	0.0	0.0	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)