

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: P650963

Luminaire Tested: **GALN-SA6C-840-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
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-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34319.5 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

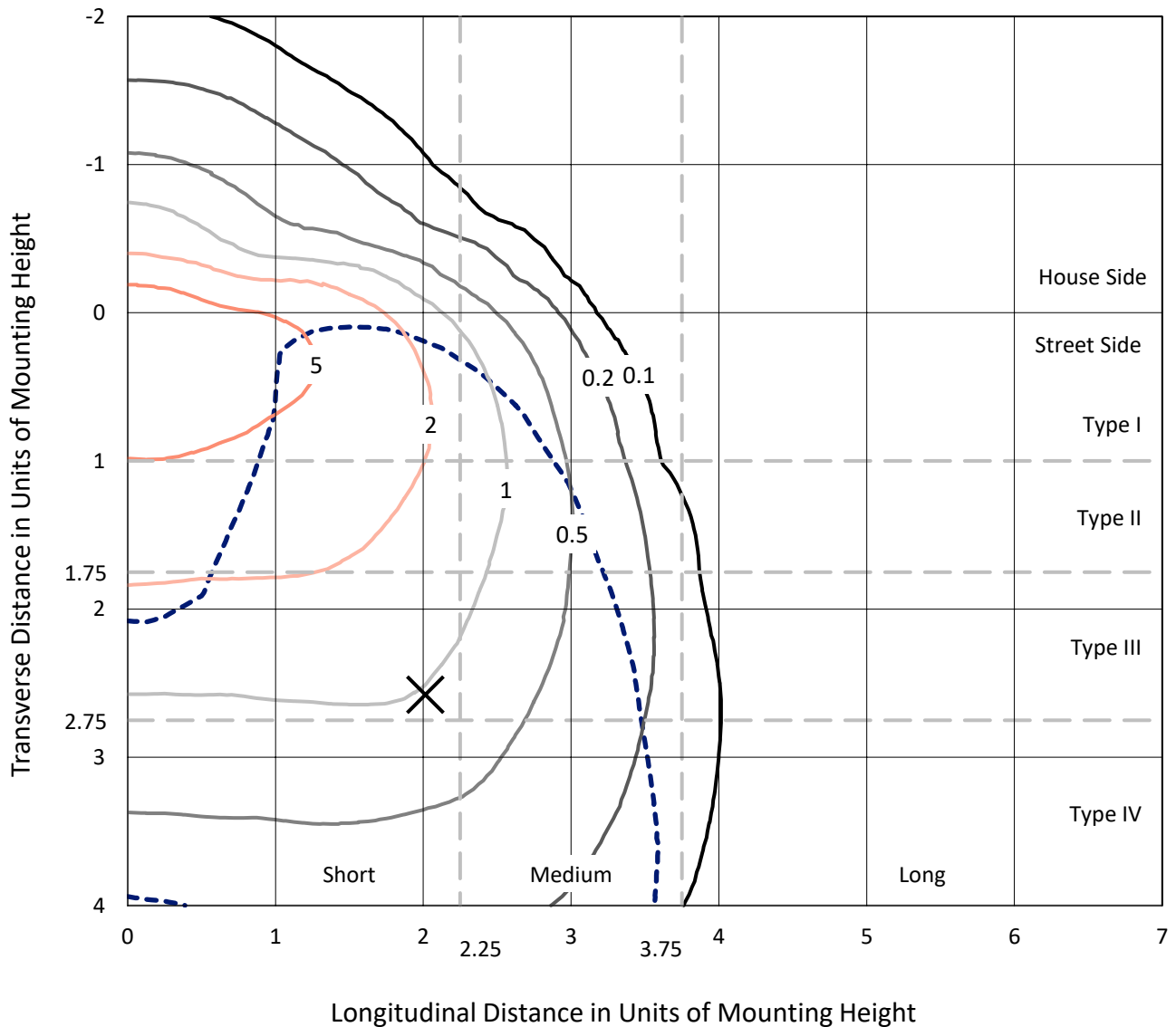
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

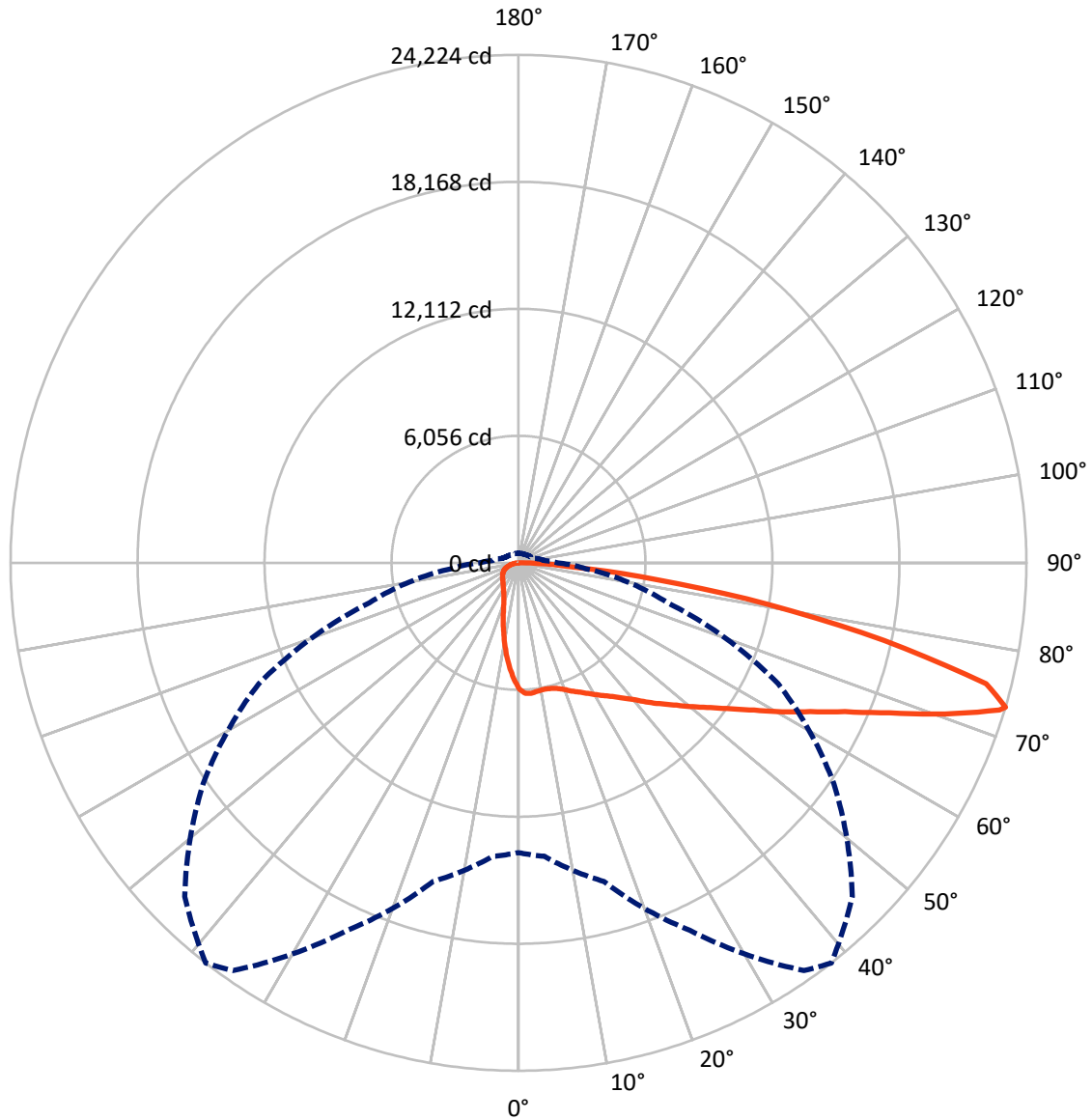
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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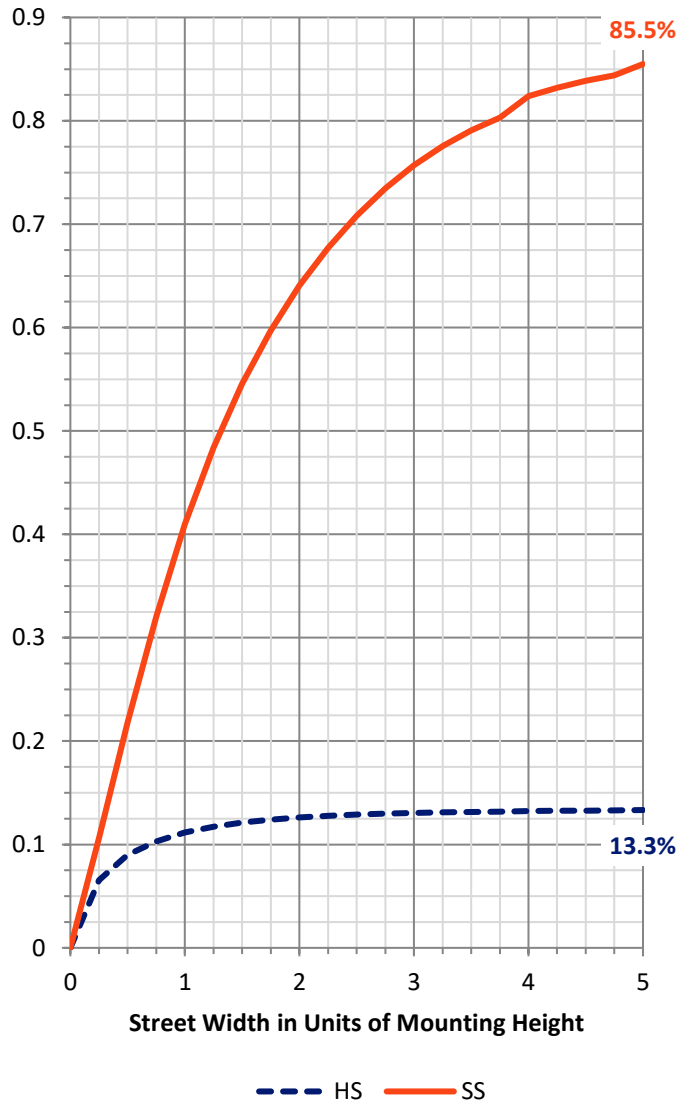
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4613.6	0.0	4613.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	29706.0	0.0	29706.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	34319.5	0.0	34319.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.3	1.5
10°-20°	1349.6	3.9
20°-30°	2101.6	6.1
30°-40°	3082.5	9.0
40°-50°	4572.6	13.3
50°-60°	6478.5	18.9
60°-70°	8218.1	23.9
70°-80°	6841.0	19.9
80°-90°	1149.4	3.3
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°	34319.5	100.0
0°-180°	34319.5	100.0

Coefficient of Utilization



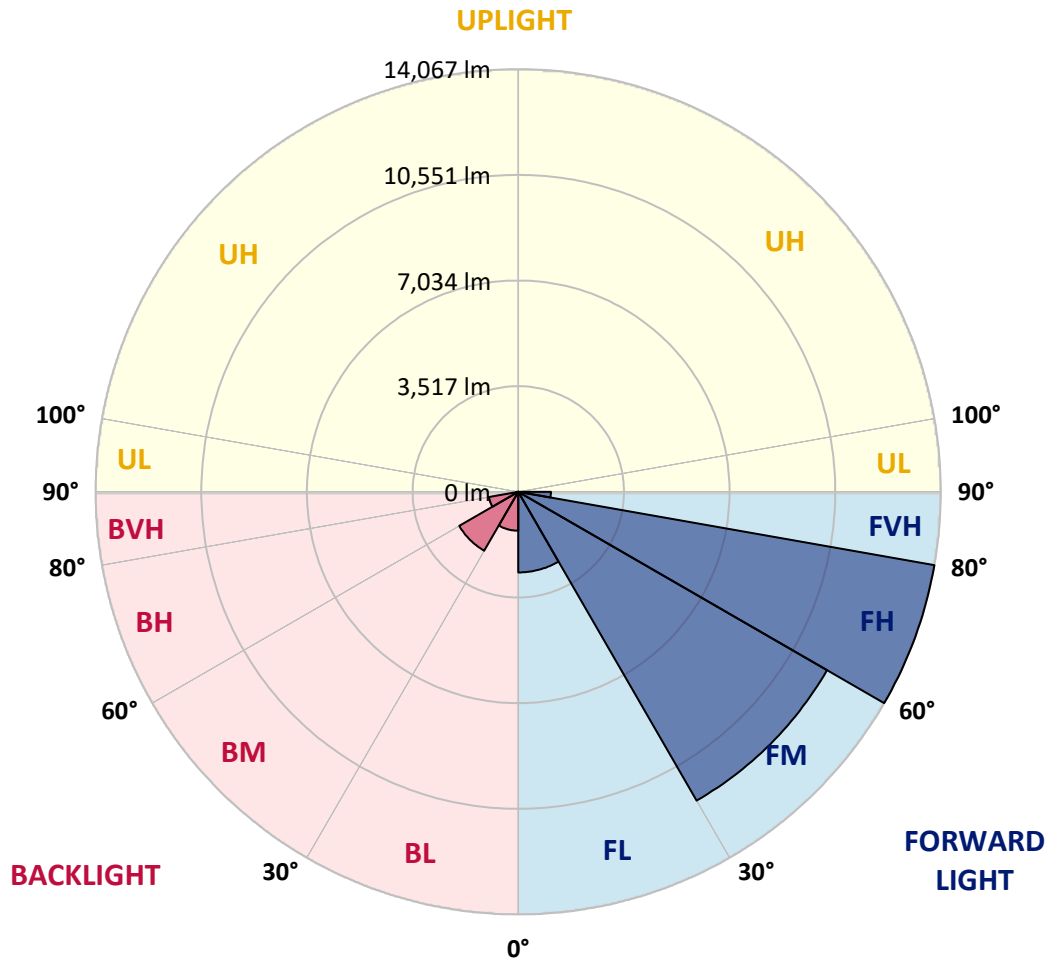
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2682.9	7.8			
FM (30°-60°)	11868.6	34.6			
FH (60°-80°)	14067.4	41.0			G5
FVH (80°-90°)	1087.1	3.2			G5
BL (0°-30°)	1294.6	3.8	B3/2500		
BM (30°-60°)	2265.0	6.6	B2/2500		
BH (60°-80°)	991.6	2.9	B2/1000		G2/1000
BVH (80°-90°)	62.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6029.4	6029.4	6029.4	6029.4	6029.4	6029.4	6029.4	6029.4	6029.4	6029.4	6029.4
2.5°	6271.6	6302.6	6287.1	6265.8	6252.2	6238.7	6219.3	6163.1	6118.5	6070.1	5994.5
5°	6318.1	6337.5	6324.0	6296.8	6265.8	6252.2	6215.4	6141.7	6070.1	5988.7	5876.2
7.5°	6291.0	6298.8	6283.3	6250.3	6223.1	6198.0	6155.4	6074.0	5986.7	5887.8	5740.6
10°	6194.1	6223.1	6223.1	6196.1	6168.9	6155.4	6112.7	6035.2	5955.7	5843.3	5668.8
12.5°	6114.7	6145.6	6170.8	6163.1	6161.2	6161.2	6128.2	6070.1	5977.1	5870.4	5663.0
15°	6060.3	6097.2	6151.5	6182.4	6201.9	6207.7	6194.1	6143.7	6048.7	5924.7	5686.3
17.5°	6048.7	6093.3	6192.2	6260.0	6310.4	6308.4	6304.6	6234.8	6130.1	6002.2	5715.4
20°	6101.0	6159.2	6296.8	6403.4	6477.0	6463.5	6442.1	6351.1	6229.0	6085.6	5742.5
22.5°	6258.0	6318.1	6469.3	6585.6	6657.3	6657.3	6593.4	6473.2	6343.3	6182.4	5779.4
25°	6482.8	6548.8	6709.7	6827.8	6860.8	6835.6	6771.6	6626.3	6477.0	6322.0	5856.9
27.5°	6758.1	6837.5	6986.8	7085.6	7075.9	7056.6	6990.6	6804.6	6655.3	6513.9	5988.7
30°	7101.2	7159.3	7314.3	7337.6	7302.7	7298.8	7205.8	7019.7	6880.1	6771.6	6176.6
32.5°	7424.8	7477.1	7601.1	7610.8	7548.8	7556.6	7469.3	7298.8	7219.3	7180.5	6492.5
35°	7767.8	7795.0	7901.5	7889.9	7849.2	7843.4	7808.5	7645.7	7670.9	7740.6	6940.3
37.5°	8054.7	8108.9	8169.0	8178.7	8176.8	8196.1	8219.3	8141.9	8287.2	8506.2	7527.5
40°	8318.2	8364.8	8453.9	8484.9	8560.5	8599.2	8678.7	8680.6	9015.9	9376.4	8250.4
42.5°	8496.5	8576.0	8742.7	8798.9	8983.0	9099.3	9217.5	9343.5	9829.9	10293.2	9103.2
45°	8651.6	8756.2	9033.3	9207.8	9457.8	9599.3	9849.3	10112.9	10812.6	11419.2	9969.5
47.5°	8886.1	8979.1	9296.9	9605.1	9983.0	10145.8	10519.9	10913.3	11828.1	12492.9	10798.9
50°	9211.6	9267.9	9591.5	10093.5	10576.1	10785.4	11279.6	11847.5	12913.4	13553.0	11527.7
52.5°	9628.4	9651.7	9909.4	10578.0	11213.7	11473.4	12128.5	12791.3	13863.0	14473.5	12105.3
55°	10120.7	10081.9	10283.4	11091.6	11942.5	12281.6	12985.1	13746.8	14930.9	15217.8	12525.8
57.5°	10607.1	10547.0	10707.9	11715.7	12841.7	13250.6	14070.4	14731.3	15884.5	15913.6	12820.4
60°	11122.6	11078.1	11269.9	12448.3	13944.5	14429.0	15186.8	15752.7	16807.0	16398.1	12866.9
62.5°	11651.7	11580.0	11853.3	13272.0	15186.8	15626.7	16361.2	16838.0	17712.1	16578.3	12419.2
65°	12165.3	12132.4	12554.9	14250.7	16601.6	17101.6	17814.8	18138.4	18436.9	16307.0	11308.7
67.5°	12711.9	12777.7	13452.2	15557.0	18446.7	19074.6	19844.0	19539.7	18644.3	15022.0	9523.7
70°	13545.2	13587.9	14630.5	17268.3	20824.7	21582.4	21954.6	20037.8	17644.3	12582.0	7159.3
72.5°	13903.7	14091.8	15682.9	19064.9	23526.3	23989.5	22663.9	18927.3	14698.4	8546.9	3761.8
73°	13824.3	14049.2	15731.4	19338.1	23737.6	24224.0	22512.7	18355.5	13663.5	7360.9	3225.0
75°	12833.9	13111.1	15101.5	19109.5	23326.7	23036.0	20082.3	15644.2	9233.0	3347.1	1469.1
77.5°	10126.5	10206.0	11965.7	15431.0	18369.1	17830.3	15029.8	9777.6	3771.5	1244.3	833.3
80°	5079.7	5372.4	6744.5	8839.6	12283.6	12107.2	9486.9	4624.2	1571.7	730.7	552.4
82.5°	2443.9	2651.3	3285.0	4310.3	6787.1	6626.3	4697.9	2527.3	998.1	426.4	325.6
85°	1573.7	1728.8	2091.1	2056.3	2790.9	2664.9	2110.6	1912.9	591.1	222.9	226.7
87.5°	1038.8	1137.6	1364.4	1091.1	1015.6	918.6	932.2	1077.6	116.3	85.3	31.0
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°	6029.4	6029.4	6029.4	6029.4	6029.4	6029.4	6029.4	6029.4	6029.4	6029.4	6029.4
2.5°	5963.4	5938.3	5855.0	5773.5	5696.0	5622.3	5573.9	5510.0	5467.3	5478.9	5496.4
5°	5814.3	5758.0	5610.7	5467.3	5331.7	5170.8	5041.0	4936.2	4856.9	4827.8	4822.0
7.5°	5657.2	5562.3	5351.0	5104.9	4874.3	4674.6	4444.0	4329.6	4195.9	4149.4	4133.9
10°	5562.3	5434.4	5137.8	4794.8	4447.9	4116.4	3866.5	3663.0	3478.9	3444.0	3426.5
12.5°	5535.1	5366.5	4967.3	4525.4	4064.1	3657.2	3287.0	3019.5	2841.2	2800.5	2740.5
15°	5519.7	5310.3	4808.3	4254.1	3668.8	3172.7	2783.1	2471.0	2308.2	2199.7	2201.7
17.5°	5506.1	5246.4	4630.0	3957.6	3327.7	2756.0	2325.7	2044.6	1895.4	1837.3	1831.4
20°	5486.7	5170.8	4424.7	3645.5	2938.1	2376.1	1986.5	1777.2	1676.4	1628.0	1626.1
22.5°	5478.9	5097.1	4223.1	3327.7	2593.1	2083.4	1761.7	1614.4	1550.5	1517.5	1517.5
25°	5498.3	5044.8	4011.8	3025.3	2286.9	1833.4	1606.6	1505.9	1469.1	1451.7	1445.8
27.5°	5558.4	5021.5	3802.5	2723.0	2005.9	1662.9	1502.0	1432.2	1405.1	1391.5	1393.5
30°	5672.7	5019.6	3597.0	2424.5	1796.6	1533.1	1418.7	1370.2	1348.9	1341.1	1339.2
32.5°	5856.9	5062.2	3395.5	2178.4	1620.3	1424.5	1341.1	1306.2	1296.6	1290.8	1288.8
35°	6168.9	5182.4	3195.9	1953.6	1484.5	1327.6	1267.5	1250.1	1236.5	1242.3	1244.3
37.5°	6589.5	5389.8	3006.0	1777.2	1381.8	1255.9	1205.5	1190.0	1182.2	1188.1	1193.9
40°	7153.5	5688.3	2847.0	1635.7	1308.2	1195.8	1151.2	1137.6	1129.9	1139.6	1141.5
42.5°	7775.5	6033.2	2715.3	1525.2	1248.1	1145.4	1102.8	1087.2	1081.4	1087.2	1089.2
45°	8415.1	6434.4	2647.4	1445.8	1197.8	1108.6	1064.0	1046.5	1033.0	1029.1	1034.9
47.5°	9045.0	6783.3	2645.4	1397.3	1157.0	1075.6	1027.2	1007.8	990.4	980.7	978.8
50°	9558.6	7060.4	2692.0	1376.0	1122.1	1038.8	990.4	971.0	947.7	928.4	932.2
52.5°	9946.3	7240.7	2713.3	1366.4	1102.8	1000.0	951.6	934.2	907.0	881.8	881.8
55°	10196.2	7283.3	2661.0	1356.6	1087.2	959.3	907.0	891.5	864.4	839.1	839.1
57.5°	10281.5	7151.5	2473.0	1333.4	1071.8	924.4	862.4	848.9	827.5	802.4	798.5
60°	10083.8	6705.7	2143.5	1263.6	1040.7	887.7	814.0	808.2	800.5	779.1	777.2
62.5°	9322.1	5759.9	1784.9	1172.5	988.4	848.9	769.4	779.1	784.9	773.3	771.4
65°	8054.7	4676.5	1525.2	1046.5	918.6	794.6	721.0	746.1	761.7	761.7	757.8
67.5°	6533.2	3591.2	1285.0	938.1	831.4	721.0	666.7	686.1	697.7	693.8	703.5
70°	4643.7	2432.3	1046.5	814.0	721.0	637.6	596.9	596.9	589.2	585.3	585.3
72.5°	2252.0	1389.6	848.9	680.3	614.4	544.6	511.7	498.1	482.6	480.6	471.0
73°	1881.9	1246.2	810.1	655.1	589.2	531.0	494.2	472.9	463.2	455.5	453.6
75°	1145.4	945.8	676.4	552.4	502.0	457.4	424.5	405.0	395.4	389.6	387.6
77.5°	753.9	705.4	525.2	422.5	383.7	356.6	343.0	323.7	317.8	310.1	310.1
80°	562.0	538.7	376.0	298.5	275.2	252.0	248.1	244.2	228.7	219.0	215.1
82.5°	362.4	383.7	255.8	199.7	174.4	155.1	157.0	162.8	147.3	133.7	129.9
85°	257.8	277.1	155.1	91.1	73.7	63.9	71.7	63.9	65.9	52.3	42.6
87.5°	42.6	73.7	27.2	11.6	5.8	3.9	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)