

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: P652063

Luminaire Tested: **GALN-SA8A-840-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652063
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-SA8A-840-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA 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: 30398.8 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

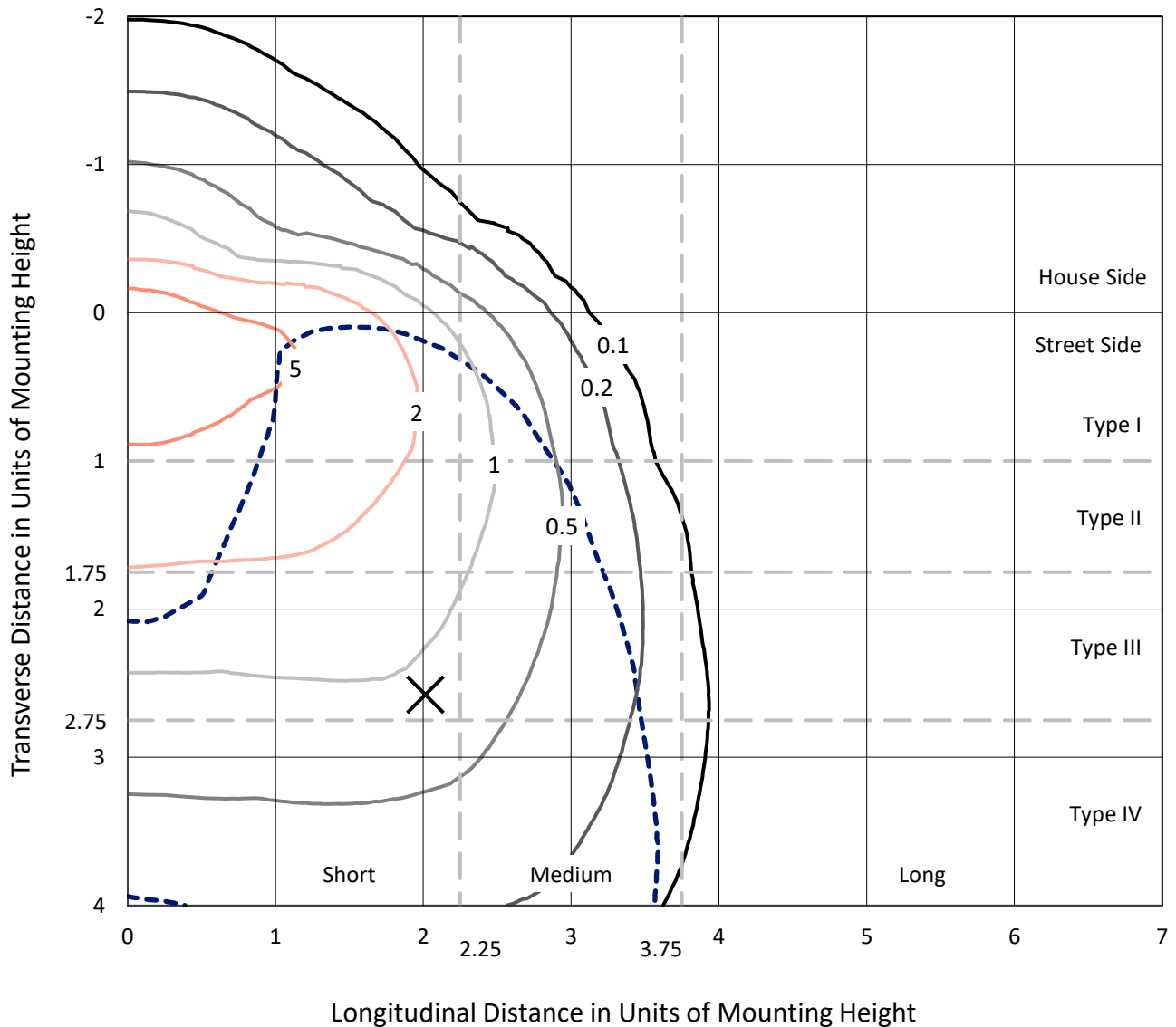
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

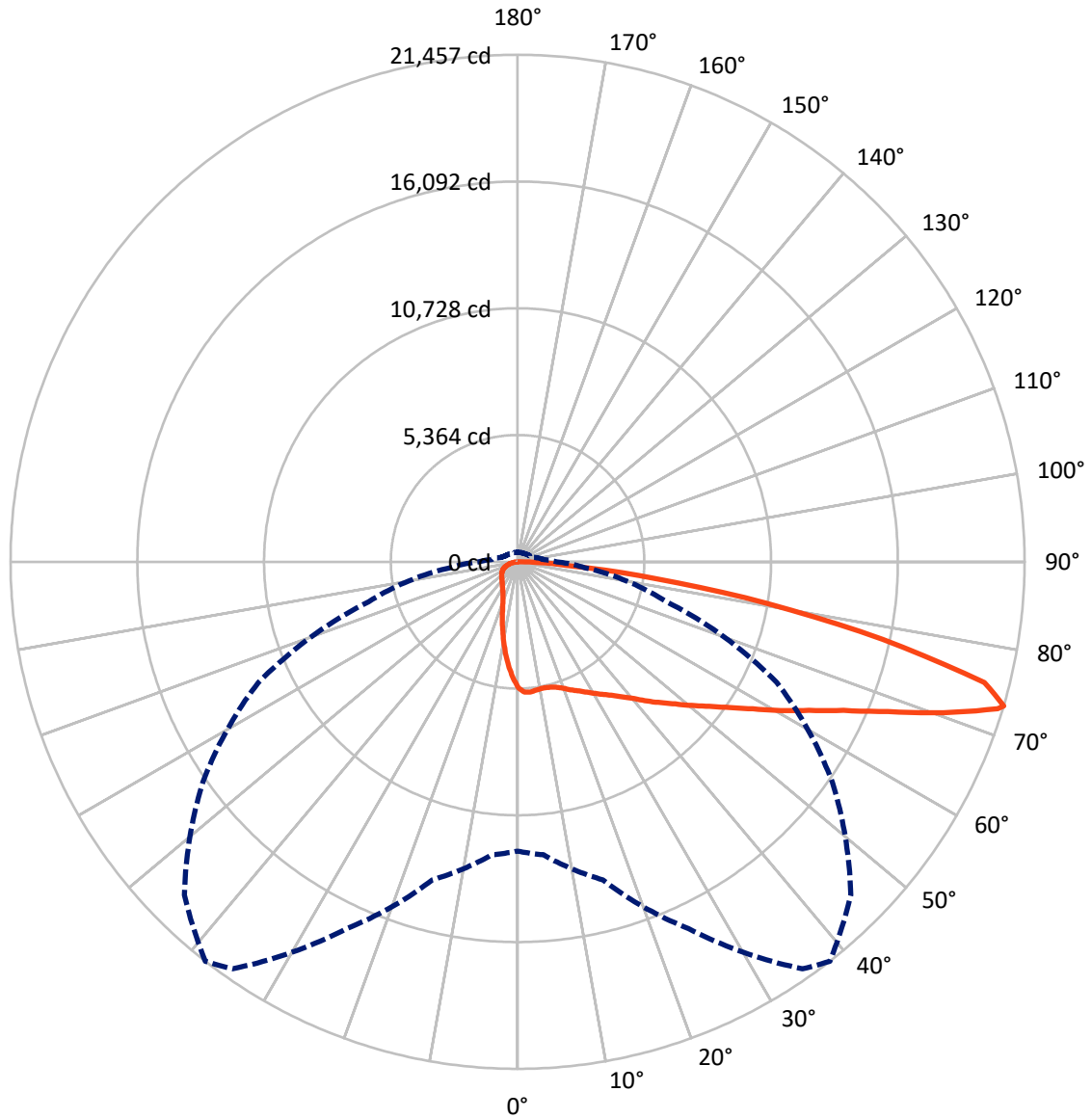
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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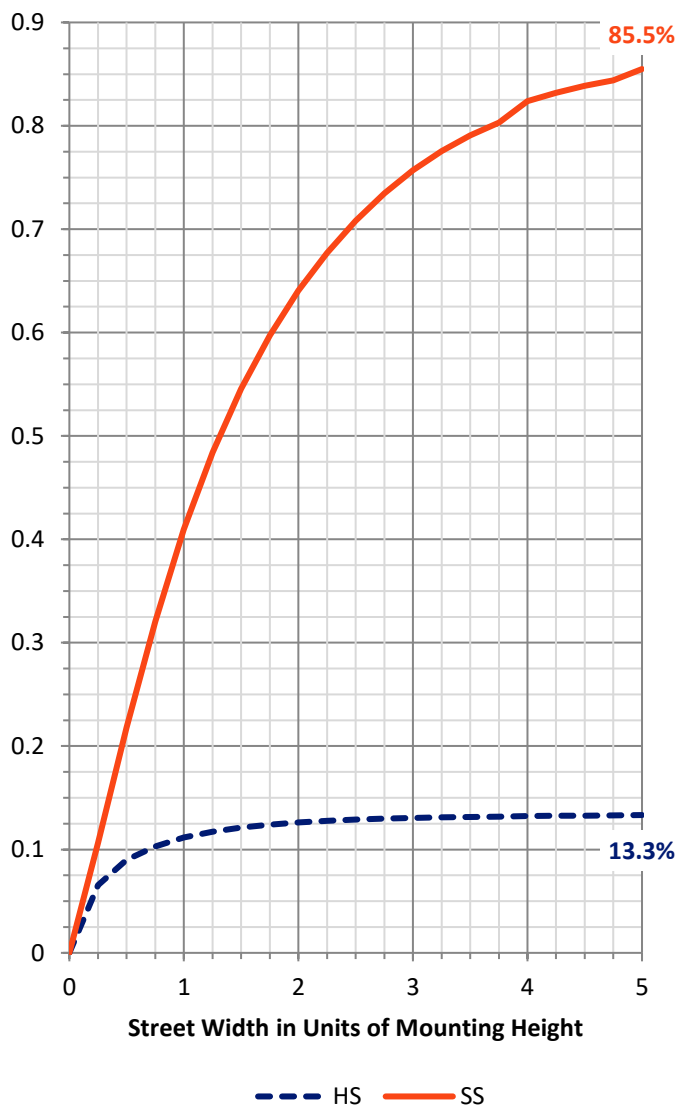
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4086.5	0.0	4086.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	26312.3	0.0	26312.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	30398.8	0.0	30398.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.2	1.5
10°-20°	1195.4	3.9
20°-30°	1861.5	6.1
30°-40°	2730.4	9.0
40°-50°	4050.2	13.3
50°-60°	5738.4	18.9
60°-70°	7279.3	23.9
70°-80°	6059.4	19.9
80°-90°	1018.1	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°	30398.8	100.0
0°-180°	30398.8	100.0

Coefficient of Utilization

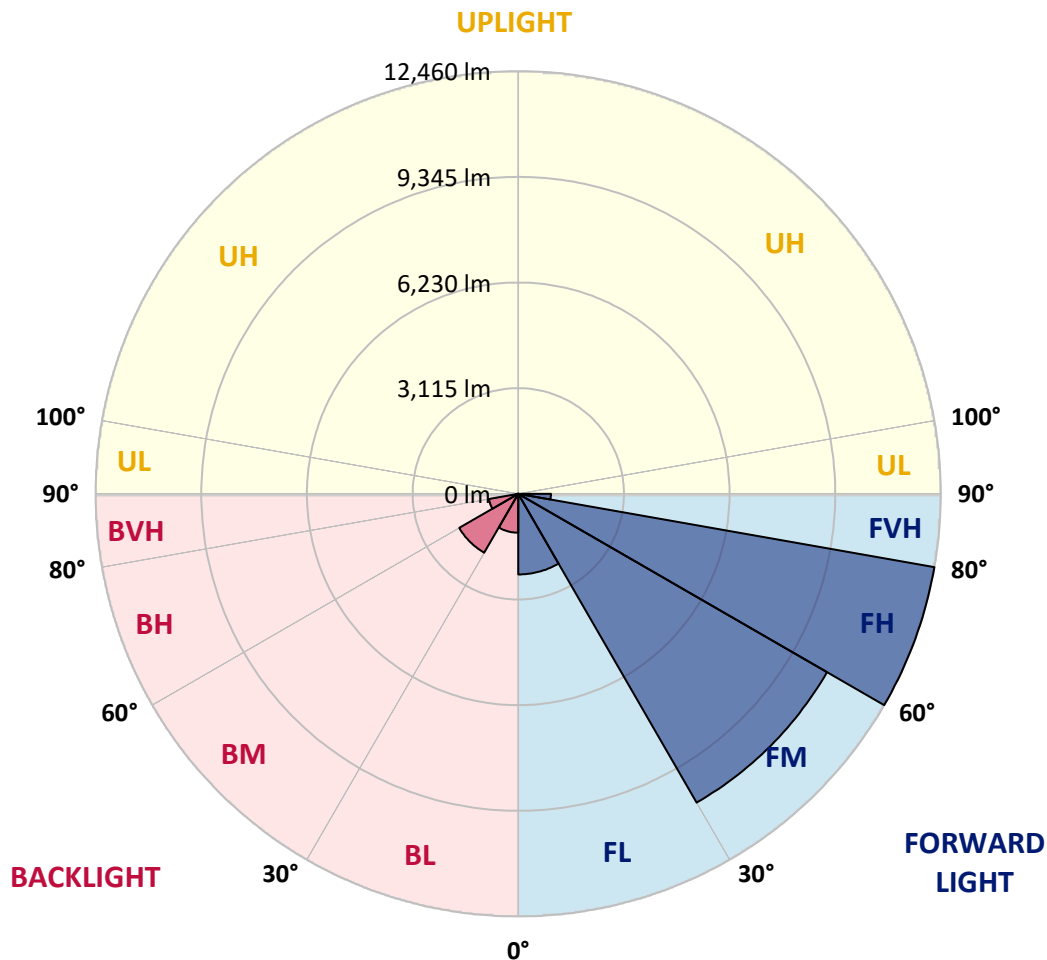


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2376.4	7.8			
FM (30°-60°)	10512.7	34.6			
FH (60°-80°)	12460.3	41.0			G5
FVH (80°-90°)	962.9	3.2			G5
BL (0°-30°)	1146.7	3.8	B3/2500		
BM (30°-60°)	2006.2	6.6	B2/2500		
BH (60°-80°)	878.4	2.9	B2/1000		G2/1000
BVH (80°-90°)	55.2	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°	5340.5	5340.5	5340.5	5340.5	5340.5	5340.5	5340.5	5340.5	5340.5	5340.5	5340.5
2.5°	5555.1	5582.6	5568.8	5550.0	5538.0	5526.0	5508.8	5459.0	5419.5	5376.6	5309.7
5°	5596.4	5613.5	5601.5	5577.4	5550.0	5538.0	5505.4	5440.1	5376.6	5304.5	5204.9
7.5°	5572.3	5579.2	5565.4	5536.2	5512.3	5489.9	5452.1	5380.0	5302.8	5215.2	5084.8
10°	5486.4	5512.3	5512.3	5488.2	5464.1	5452.1	5414.4	5345.7	5275.3	5175.8	5021.3
12.5°	5416.1	5443.5	5465.8	5459.0	5457.2	5457.2	5428.1	5376.6	5294.2	5199.8	5016.1
15°	5368.0	5400.6	5448.7	5476.2	5493.3	5498.5	5486.4	5441.9	5357.8	5247.8	5036.7
17.5°	5357.8	5397.2	5484.7	5544.8	5589.5	5587.8	5584.3	5522.5	5429.8	5316.5	5062.5
20°	5404.1	5455.6	5577.4	5671.9	5737.1	5725.1	5706.2	5625.5	5517.4	5390.3	5086.5
22.5°	5543.1	5596.4	5730.2	5833.3	5896.8	5896.8	5840.1	5733.7	5618.6	5476.2	5119.1
25°	5742.3	5800.6	5943.1	6047.8	6077.0	6054.7	5998.0	5869.3	5737.1	5599.8	5187.8
27.5°	5986.0	6056.4	6188.6	6276.1	6267.6	6250.4	6192.0	6027.2	5895.1	5769.7	5304.5
30°	6289.8	6341.4	6478.7	6499.3	6468.4	6464.9	6382.6	6217.8	6094.1	5998.0	5471.0
32.5°	6576.5	6622.9	6732.8	6741.4	6686.5	6693.3	6616.1	6464.9	6394.5	6360.2	5750.8
35°	6880.4	6904.4	6998.9	6988.5	6952.5	6947.3	6916.5	6772.2	6794.6	6856.3	6147.4
37.5°	7134.5	7182.6	7235.7	7244.4	7242.6	7259.8	7280.4	7211.7	7340.5	7534.4	6667.5
40°	7367.9	7409.1	7488.1	7515.6	7582.5	7616.9	7687.2	7688.9	7986.0	8305.2	7307.9
42.5°	7525.9	7596.2	7743.8	7793.6	7956.8	8059.7	8164.4	8276.0	8707.0	9117.2	8063.2
45°	7663.2	7755.9	8001.4	8155.8	8377.4	8502.7	8724.1	8957.6	9577.3	10114.6	8830.5
47.5°	7870.9	7953.3	8234.8	8507.8	8842.5	8986.8	9318.0	9666.5	10476.8	11065.6	9565.3
50°	8159.3	8209.1	8495.8	8940.4	9367.8	9553.3	9991.0	10494.0	11438.2	12004.7	10210.7
52.5°	8528.4	8549.0	8777.3	9369.6	9932.6	10162.6	10742.9	11330.0	12279.4	12820.0	10722.3
55°	8964.5	8930.1	9108.6	9824.5	10578.1	10878.5	11501.7	12176.3	13225.2	13479.3	11094.8
57.5°	9395.3	9342.1	9484.5	10377.3	11374.6	11736.8	12463.0	13048.4	14069.8	14095.6	11355.8
60°	9852.0	9812.5	9982.4	11026.2	12351.4	12780.6	13451.8	13953.0	14887.0	14524.7	11397.0
62.5°	10320.6	10257.1	10499.1	11755.8	13451.8	13841.5	14492.1	14914.4	15688.6	14684.4	11000.4
65°	10775.5	10746.3	11120.5	12622.7	14705.0	15147.8	15779.6	16066.3	16330.6	14444.0	10016.7
67.5°	11259.6	11318.0	11915.4	13779.7	16339.2	16895.4	17577.0	17307.4	16514.3	13305.9	8435.7
70°	11997.8	12035.6	12959.1	15295.5	18445.6	19116.8	19446.4	17748.6	15628.6	11144.6	6341.4
72.5°	12315.4	12481.9	13891.3	16886.9	20838.6	21248.9	20074.7	16765.0	13019.2	7570.5	3332.0
73°	12245.0	12444.1	13934.2	17128.9	21025.8	21456.6	19940.8	16258.5	12102.5	6519.9	2856.5
75°	11367.8	11613.3	13376.3	16926.3	20661.8	20404.3	17788.1	13856.9	8178.2	2964.7	1301.2
77.5°	8969.6	9040.0	10598.7	13668.1	16270.6	15793.3	13312.8	8660.6	3340.6	1102.1	738.1
80°	4499.3	4758.6	5974.0	7829.7	10880.3	10724.0	8403.1	4096.0	1392.2	647.1	489.2
82.5°	2164.7	2348.4	2909.8	3817.9	6011.8	5869.3	4161.2	2238.6	884.1	377.7	288.4
85°	1394.0	1531.3	1852.3	1821.4	2472.0	2360.4	1869.5	1694.4	523.6	197.4	200.8
87.5°	920.1	1007.7	1208.5	966.5	899.5	813.7	825.7	954.5	103.0	75.5	27.5
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°	5340.5	5340.5	5340.5	5340.5	5340.5	5340.5	5340.5	5340.5	5340.5	5340.5	5340.5
2.5°	5282.2	5259.9	5186.0	5114.0	5045.2	4980.1	4937.2	4880.5	4842.7	4853.0	4868.5
5°	5150.0	5100.2	4969.7	4842.7	4722.6	4580.1	4465.0	4372.4	4302.0	4276.2	4271.1
7.5°	5010.9	4926.8	4739.7	4521.7	4317.4	4140.6	3936.3	3835.0	3716.5	3675.4	3661.6
10°	4926.8	4813.5	4550.9	4247.0	3939.7	3646.2	3424.7	3244.5	3081.4	3050.6	3035.1
12.5°	4902.8	4753.4	4399.9	4008.5	3599.8	3239.4	2911.5	2674.5	2516.6	2480.6	2427.4
15°	4889.1	4703.6	4259.1	3768.1	3249.6	2810.2	2465.1	2188.8	2044.6	1948.4	1950.1
17.5°	4877.0	4647.0	4101.1	3505.5	2947.5	2441.1	2060.0	1811.1	1678.9	1627.4	1622.3
20°	4859.9	4580.1	3919.1	3229.0	2602.5	2104.6	1759.6	1574.2	1485.0	1442.0	1440.3
22.5°	4853.0	4514.8	3740.6	2947.5	2296.9	1845.4	1560.5	1430.0	1373.4	1344.2	1344.2
25°	4870.1	4468.5	3553.5	2679.7	2025.6	1624.0	1423.1	1333.8	1301.2	1285.8	1280.7
27.5°	4923.4	4447.9	3368.1	2411.9	1776.8	1472.9	1330.4	1268.6	1244.6	1232.6	1234.3
30°	5024.7	4446.2	3186.1	2147.6	1591.3	1357.9	1256.6	1213.6	1194.8	1187.9	1186.2
32.5°	5187.8	4484.0	3007.6	1929.5	1435.2	1261.8	1187.9	1157.0	1148.5	1143.3	1141.6
35°	5464.1	4590.3	2830.8	1730.4	1315.0	1175.9	1122.7	1107.3	1095.2	1100.4	1102.1
37.5°	5836.7	4774.0	2662.5	1574.2	1224.0	1112.4	1067.7	1054.0	1047.1	1052.3	1057.5
40°	6336.2	5038.4	2521.8	1448.9	1158.7	1059.2	1019.7	1007.7	1000.8	1009.4	1011.1
42.5°	6887.3	5344.0	2405.1	1351.0	1105.5	1014.6	976.8	963.0	957.9	963.0	964.8
45°	7453.8	5699.4	2345.0	1280.7	1060.9	982.0	942.4	927.0	915.0	911.6	916.7
47.5°	8011.7	6008.4	2343.3	1237.7	1024.8	952.8	909.8	892.6	877.2	868.7	866.9
50°	8466.6	6253.8	2384.5	1218.9	994.0	920.1	877.2	860.1	839.5	822.2	825.7
52.5°	8809.9	6413.5	2403.3	1210.3	976.8	885.8	842.9	827.5	803.4	781.1	781.1
55°	9031.4	6451.2	2357.0	1201.7	963.0	849.7	803.4	789.7	765.6	743.3	743.3
57.5°	9106.9	6334.5	2190.5	1181.1	949.3	818.9	763.9	751.9	733.0	710.7	707.3
60°	8931.8	5939.6	1898.6	1119.3	921.8	786.3	721.0	715.9	709.0	690.1	688.4
62.5°	8257.2	5101.9	1581.1	1038.6	875.5	751.9	681.5	690.1	695.3	684.9	683.2
65°	7134.5	4142.3	1351.0	927.0	813.7	703.8	638.6	660.9	674.7	674.7	671.2
67.5°	5786.9	3181.0	1138.1	830.9	736.5	638.6	590.6	607.7	618.0	614.6	623.2
70°	4113.2	2154.4	927.0	721.0	638.6	564.8	528.7	528.7	521.8	518.4	518.4
72.5°	1994.8	1230.9	751.9	602.6	544.2	482.4	453.2	441.2	427.5	425.7	417.1
73°	1666.9	1103.8	717.5	580.2	521.8	470.4	437.7	418.9	410.3	403.4	401.7
75°	1014.6	837.7	599.1	489.2	444.6	405.1	375.9	358.8	350.2	345.1	343.3
77.5°	667.8	624.9	465.2	374.2	339.9	315.9	303.9	286.7	281.6	274.7	274.7
80°	497.9	477.3	333.0	264.3	243.8	223.2	219.8	216.3	202.6	194.0	190.6
82.5°	321.0	339.9	226.6	176.8	154.5	137.3	139.0	144.2	130.4	118.4	115.0
85°	228.3	245.5	137.3	80.7	65.3	56.7	63.5	56.7	58.4	46.3	37.8
87.5°	37.8	65.3	24.1	10.3	5.1	3.4	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)