

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: P648158

Luminaire Tested: **GALN-SA9A-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648158
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-SA9A-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 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: 31774.1 lumens
Efficiency: N/A
Efficacy: 116.0 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

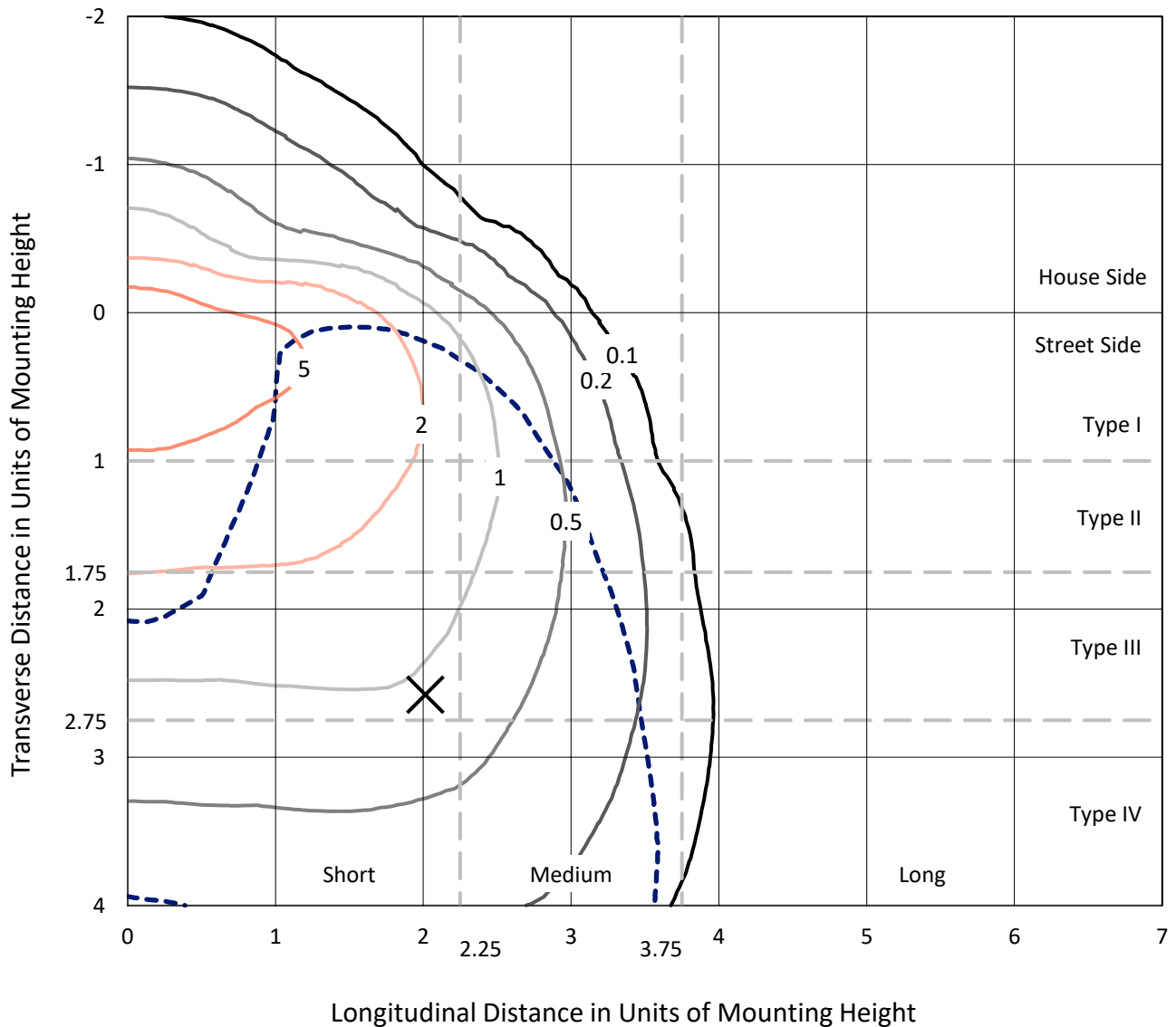
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

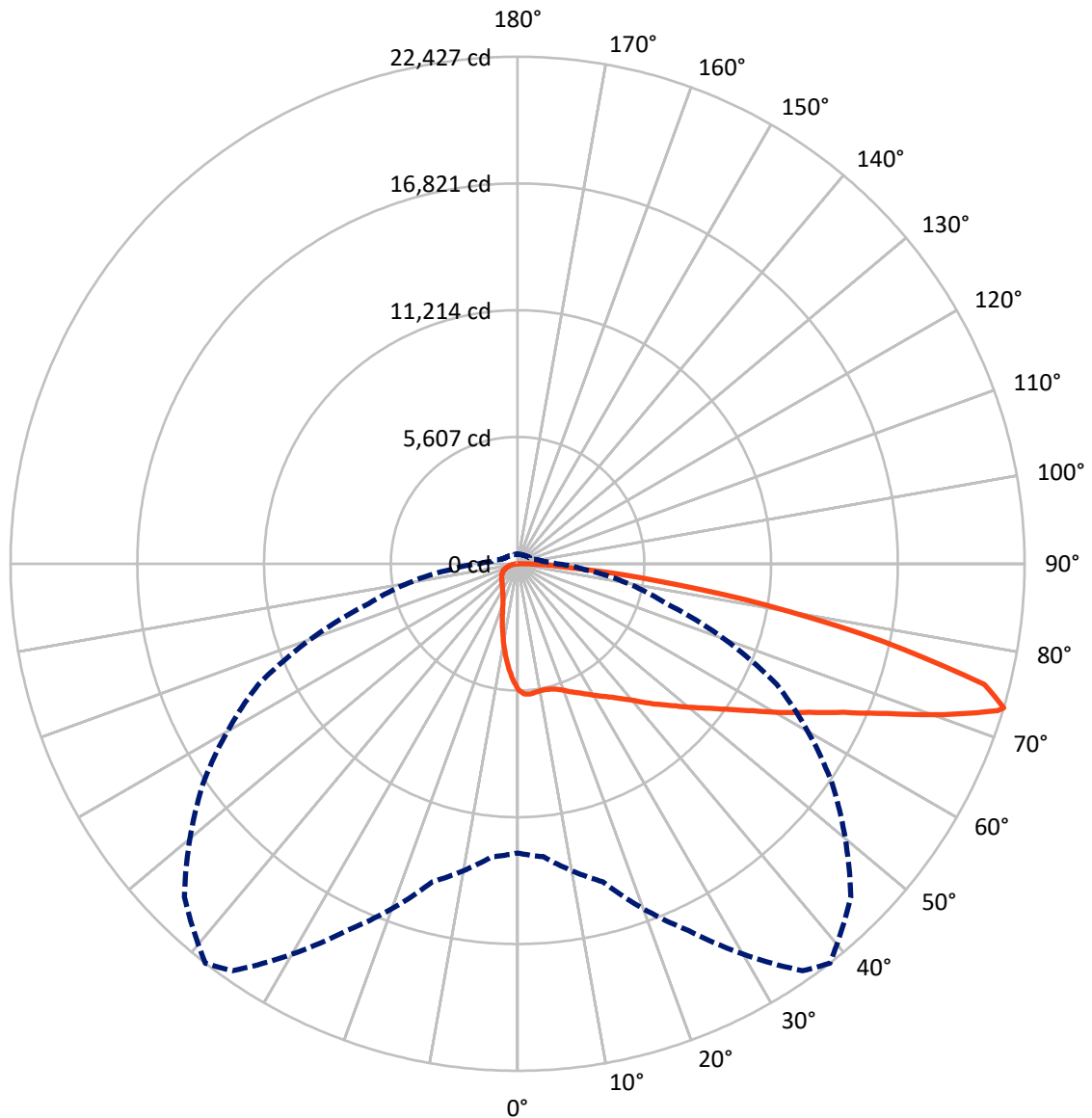
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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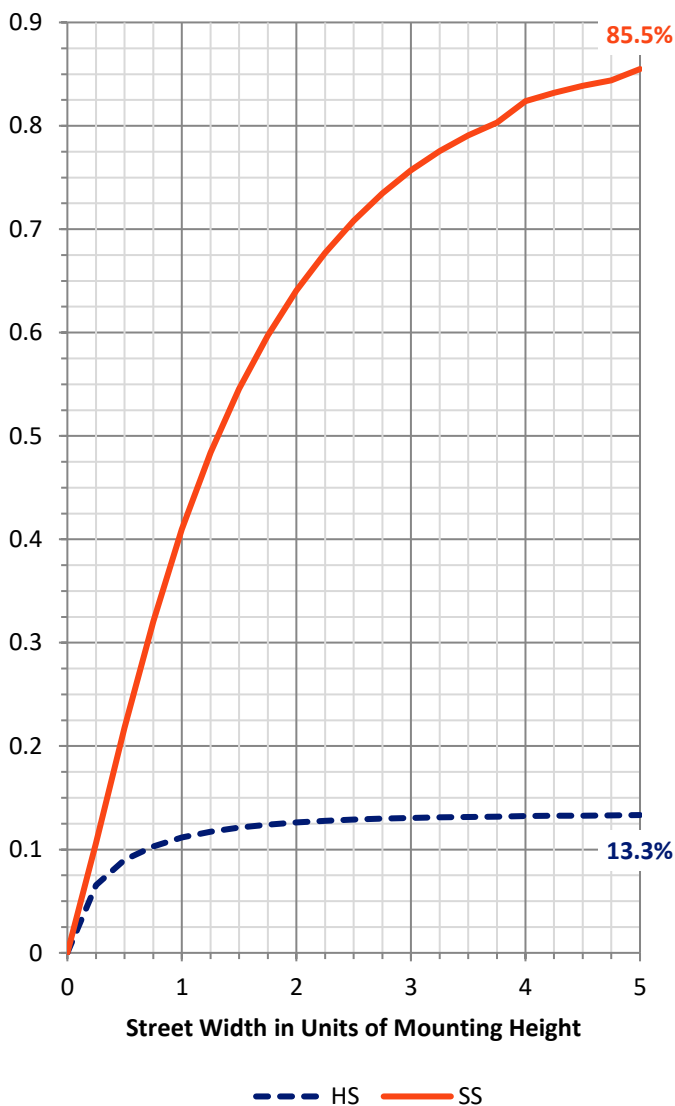
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4271.4	0.0	4271.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	27502.7	0.0	27502.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	31774.1	0.0	31774.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.3	1.5
10°-20°	1249.5	3.9
20°-30°	1945.7	6.1
30°-40°	2853.9	9.0
40°-50°	4233.5	13.3
50°-60°	5998.0	18.9
60°-70°	7608.6	23.9
70°-80°	6333.6	19.9
80°-90°	1064.1	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°	31774.1	100.0
0°-180°	31774.1	100.0

Coefficient of Utilization

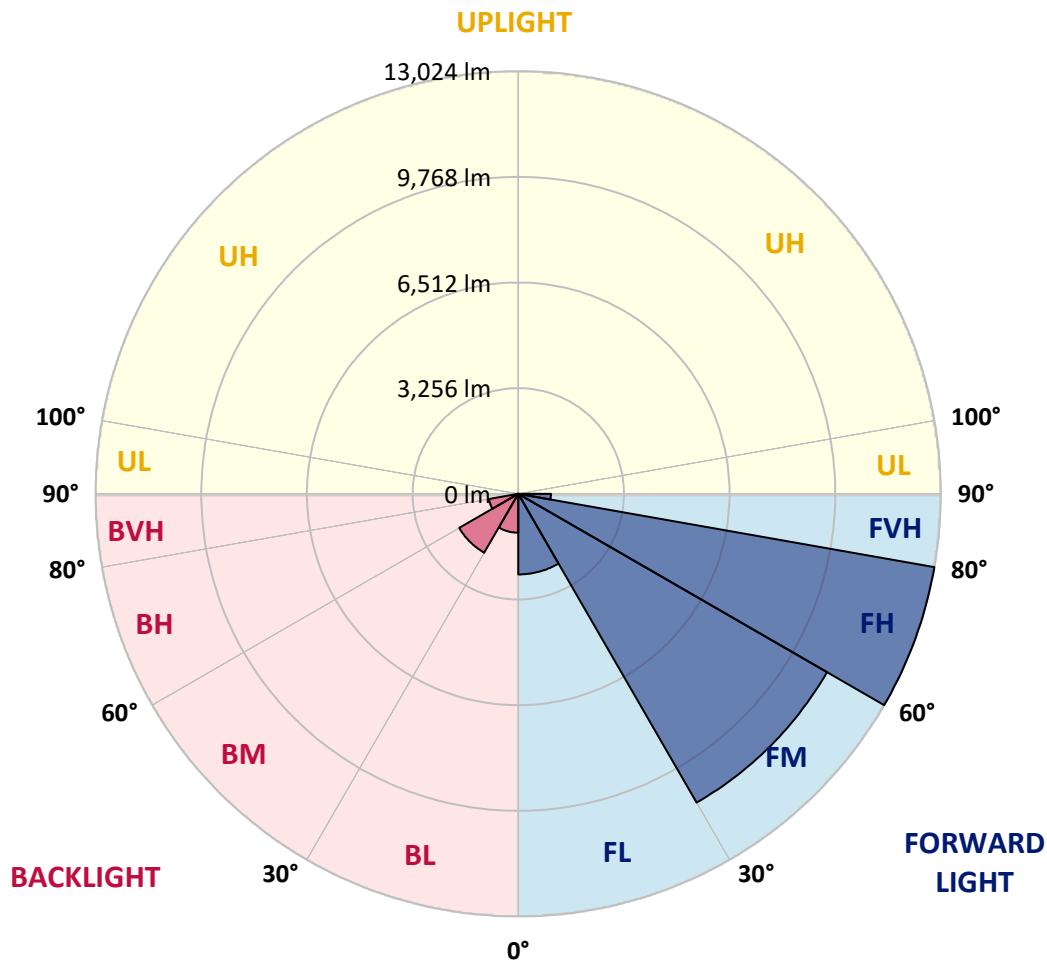


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2483.9	7.8			
FM (30°-60°)	10988.4	34.6			
FH (60°-80°)	13024.1	41.0			G5
FVH (80°-90°)	1006.4	3.2			G5
BL (0°-30°)	1198.6	3.8	B3/2500		
BM (30°-60°)	2097.0	6.6	B2/2500		
BH (60°-80°)	918.1	2.9	B2/1000		G2/1000
BVH (80°-90°)	57.7	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°	5582.2	5582.2	5582.2	5582.2	5582.2	5582.2	5582.2	5582.2	5582.2	5582.2	5582.2
2.5°	5806.5	5835.2	5820.8	5801.1	5788.6	5776.0	5758.0	5706.0	5664.7	5619.8	5549.9
5°	5849.6	5867.5	5854.9	5829.8	5801.1	5788.6	5754.4	5686.2	5619.8	5544.5	5440.4
7.5°	5824.4	5831.6	5817.2	5786.8	5761.6	5738.3	5698.8	5623.4	5542.7	5451.2	5314.8
10°	5734.7	5761.6	5761.6	5736.5	5711.4	5698.8	5659.4	5587.6	5514.0	5409.9	5248.4
12.5°	5661.1	5689.8	5713.2	5706.0	5704.2	5704.2	5673.7	5619.8	5533.7	5435.0	5243.0
15°	5610.9	5645.0	5695.2	5724.0	5741.9	5747.2	5734.7	5688.0	5600.1	5485.3	5264.6
17.5°	5600.1	5641.4	5732.9	5795.7	5842.4	5840.6	5837.0	5772.4	5675.5	5557.0	5291.5
20°	5648.6	5702.4	5829.8	5928.5	5996.7	5984.1	5964.3	5880.0	5767.0	5634.2	5316.6
22.5°	5793.9	5849.6	5989.5	6097.1	6163.5	6163.5	6104.3	5993.1	5872.9	5724.0	5350.7
25°	6002.1	6063.1	6212.0	6321.5	6351.9	6328.6	6269.4	6134.8	5996.7	5853.2	5422.5
27.5°	6256.9	6330.4	6468.6	6560.1	6551.1	6533.2	6472.2	6299.9	6161.7	6030.7	5544.5
30°	6574.5	6628.3	6771.9	6793.4	6761.0	6757.4	6671.3	6499.1	6369.9	6269.4	5718.6
32.5°	6874.1	6922.6	7037.4	7046.4	6988.9	6996.1	6915.4	6757.4	6683.9	6648.0	6011.0
35°	7191.7	7216.8	7315.5	7304.8	7267.0	7261.7	7229.4	7078.6	7102.0	7166.6	6425.5
37.5°	7457.3	7507.5	7563.2	7572.1	7570.3	7588.2	7609.7	7538.0	7672.6	7875.3	6969.2
40°	7701.3	7744.3	7826.9	7855.6	7925.6	7961.5	8035.1	8036.8	8347.2	8681.0	7638.5
42.5°	7866.3	7939.9	8094.3	8146.3	8316.7	8424.4	8533.8	8650.5	9100.9	9529.7	8428.0
45°	8009.9	8106.8	8363.4	8524.9	8756.4	8887.4	9118.8	9362.9	10010.6	10572.2	9230.1
47.5°	8227.1	8313.2	8607.4	8892.8	9242.6	9393.3	9739.7	10103.9	10950.8	11566.3	9998.0
50°	8528.5	8580.5	8880.2	9344.9	9791.7	9985.4	10443.0	10968.8	11955.6	12547.8	10672.7
52.5°	8914.2	8935.8	9174.4	9793.5	10382.0	10622.5	11228.9	11842.6	12834.9	13400.1	11207.4
55°	9370.0	9334.1	9520.7	10269.0	11056.7	11370.7	12022.0	12727.2	13823.6	14089.1	11596.8
57.5°	9820.4	9764.8	9913.7	10846.7	11889.2	12267.9	13026.8	13638.8	14706.4	14733.3	11869.5
60°	10297.7	10256.4	10434.0	11525.1	12910.3	13358.8	14060.4	14584.4	15560.5	15181.9	11912.6
62.5°	10787.5	10721.1	10974.1	12287.6	14060.4	14467.7	15147.8	15589.2	16398.4	15348.8	11498.1
65°	11263.1	11232.5	11623.7	13193.8	15370.3	15833.2	16493.5	16793.2	17069.5	15097.6	10470.0
67.5°	11769.0	11830.0	12454.5	14403.1	17078.5	17659.9	18372.2	18090.5	17261.5	13907.9	8817.4
70°	12540.6	12580.1	13545.4	15987.5	19280.1	19981.7	20326.2	18551.6	16335.7	11648.8	6628.3
72.5°	12872.6	13046.6	14519.8	17650.9	21781.4	22210.3	20983.0	17523.5	13608.2	7913.0	3482.8
73°	12799.0	13007.1	14564.6	17903.8	21977.0	22427.4	20843.0	16994.2	12650.1	6814.9	2985.7
75°	11882.1	12138.7	13981.5	17692.1	21596.6	21327.5	18592.9	14483.9	8548.2	3098.8	1360.1
77.5°	9375.4	9449.0	11078.2	14286.5	17006.7	16507.9	13915.1	9052.4	3491.8	1151.9	771.6
80°	4702.9	4973.9	6244.3	8184.0	11372.5	11209.2	8783.3	4281.3	1455.2	676.4	511.4
82.5°	2262.6	2454.6	3041.4	3990.6	6283.7	6134.8	4349.5	2339.8	924.1	394.8	301.5
85°	1457.0	1600.5	1936.1	1903.8	2583.8	2467.2	1954.1	1771.0	547.2	206.3	209.9
87.5°	961.8	1053.3	1263.2	1010.2	940.2	850.5	863.1	997.6	107.7	78.9	28.7
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°	5582.2	5582.2	5582.2	5582.2	5582.2	5582.2	5582.2	5582.2	5582.2	5582.2	5582.2
2.5°	5521.2	5497.8	5420.7	5345.3	5273.6	5205.4	5160.5	5101.3	5061.8	5072.6	5088.7
5°	5383.0	5331.0	5194.6	5061.8	4936.2	4787.3	4667.1	4570.1	4496.6	4469.7	4464.3
7.5°	5237.6	5149.7	4954.2	4726.3	4512.7	4328.0	4114.4	4008.6	3884.7	3841.7	3827.3
10°	5149.7	5031.3	4756.8	4439.2	4118.0	3811.2	3579.7	3391.3	3220.9	3188.5	3172.4
12.5°	5124.7	4968.5	4598.9	4189.8	3762.7	3385.9	3043.2	2795.5	2630.5	2592.8	2537.2
15°	5110.2	4916.5	4451.7	3938.6	3396.7	2937.3	2576.7	2287.8	2137.0	2036.6	2038.4
17.5°	5097.7	4857.3	4286.7	3664.0	3080.9	2551.6	2153.2	1893.1	1754.9	1701.1	1695.7
20°	5079.8	4787.3	4096.5	3375.1	2720.2	2199.8	1839.2	1645.4	1552.1	1507.3	1505.5
22.5°	5072.6	4719.1	3909.8	3080.9	2400.8	1928.9	1631.1	1494.7	1435.5	1404.9	1404.9
25°	5090.5	4670.7	3714.2	2800.9	2117.3	1697.5	1487.5	1394.2	1360.1	1343.9	1338.5
27.5°	5146.2	4649.1	3520.5	2521.0	1857.1	1539.5	1390.6	1326.0	1300.9	1288.3	1290.1
30°	5252.1	4647.3	3330.3	2244.7	1663.3	1419.3	1313.5	1268.6	1248.9	1241.7	1239.9
32.5°	5422.5	4686.8	3143.7	2016.9	1500.1	1318.8	1241.7	1209.3	1200.4	1195.0	1193.2
35°	5711.4	4798.1	2958.9	1808.7	1374.5	1229.2	1173.5	1157.4	1144.8	1150.1	1151.9
37.5°	6100.7	4990.1	2783.0	1645.4	1279.3	1162.8	1116.1	1101.8	1094.6	1100.0	1105.3
40°	6622.9	5266.4	2635.9	1514.4	1211.1	1107.1	1065.8	1053.3	1046.1	1055.1	1056.9
42.5°	7198.9	5585.8	2513.9	1412.1	1155.6	1060.4	1021.0	1006.6	1001.2	1006.6	1008.4
45°	7791.0	5957.2	2451.0	1338.5	1108.9	1026.4	985.1	969.0	956.4	952.8	958.2
47.5°	8374.2	6280.2	2449.3	1293.8	1071.2	995.8	951.0	933.0	916.9	908.0	906.2
50°	8849.7	6536.8	2492.4	1273.9	1038.9	961.8	916.9	899.0	877.4	859.5	863.1
52.5°	9208.5	6703.7	2512.1	1265.0	1021.0	925.9	881.0	864.9	839.8	816.4	816.4
55°	9440.0	6743.1	2463.6	1256.0	1006.6	888.2	839.8	825.4	800.3	777.0	777.0
57.5°	9518.9	6621.1	2289.6	1234.5	992.3	855.9	798.5	785.9	766.2	742.8	739.2
60°	9335.9	6208.4	1984.5	1169.9	963.6	821.8	753.6	748.2	741.0	721.3	719.5
62.5°	8630.8	5332.8	1652.6	1085.6	915.1	785.9	712.4	721.3	726.7	716.0	714.2
65°	7457.3	4329.8	1412.1	969.0	850.5	735.7	667.5	690.8	705.2	705.2	701.6
67.5°	6048.7	3324.9	1189.6	868.4	769.8	667.5	617.2	635.2	646.0	642.4	651.4
70°	4299.2	2251.9	969.0	753.6	667.5	590.3	552.6	552.6	545.5	541.9	541.9
72.5°	2085.1	1286.5	785.9	629.8	568.8	504.2	473.7	461.1	446.8	445.0	436.1
73°	1742.3	1153.8	750.0	606.5	545.5	491.6	457.6	437.9	428.8	421.6	419.8
75°	1060.4	875.6	626.2	511.4	464.7	423.4	393.0	375.0	366.1	360.6	358.8
77.5°	698.0	653.1	486.2	391.2	355.2	330.2	317.6	299.7	294.3	287.1	287.1
80°	520.4	498.8	348.1	276.3	254.8	233.3	229.7	226.1	211.7	202.8	199.2
82.5°	335.5	355.2	236.9	184.8	161.5	143.5	145.3	150.7	136.4	123.8	120.2
85°	238.7	256.6	143.5	84.3	68.2	59.2	66.4	59.2	61.0	48.5	39.5
87.5°	39.5	68.2	25.1	10.7	5.4	3.6	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)