

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: P320114

Luminaire Tested: **GLEON-SA0A-827-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0A-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 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: 32221 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

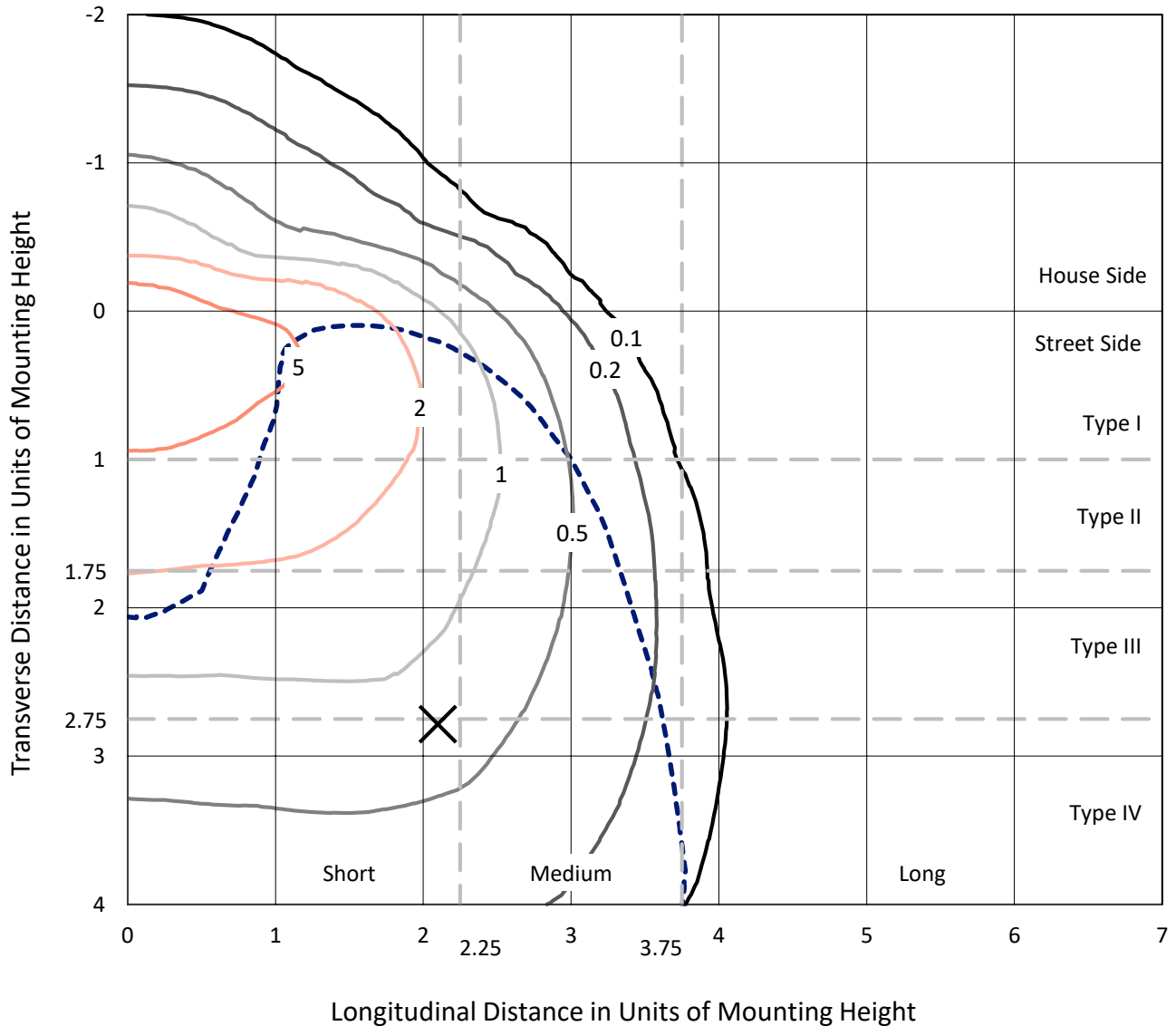
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

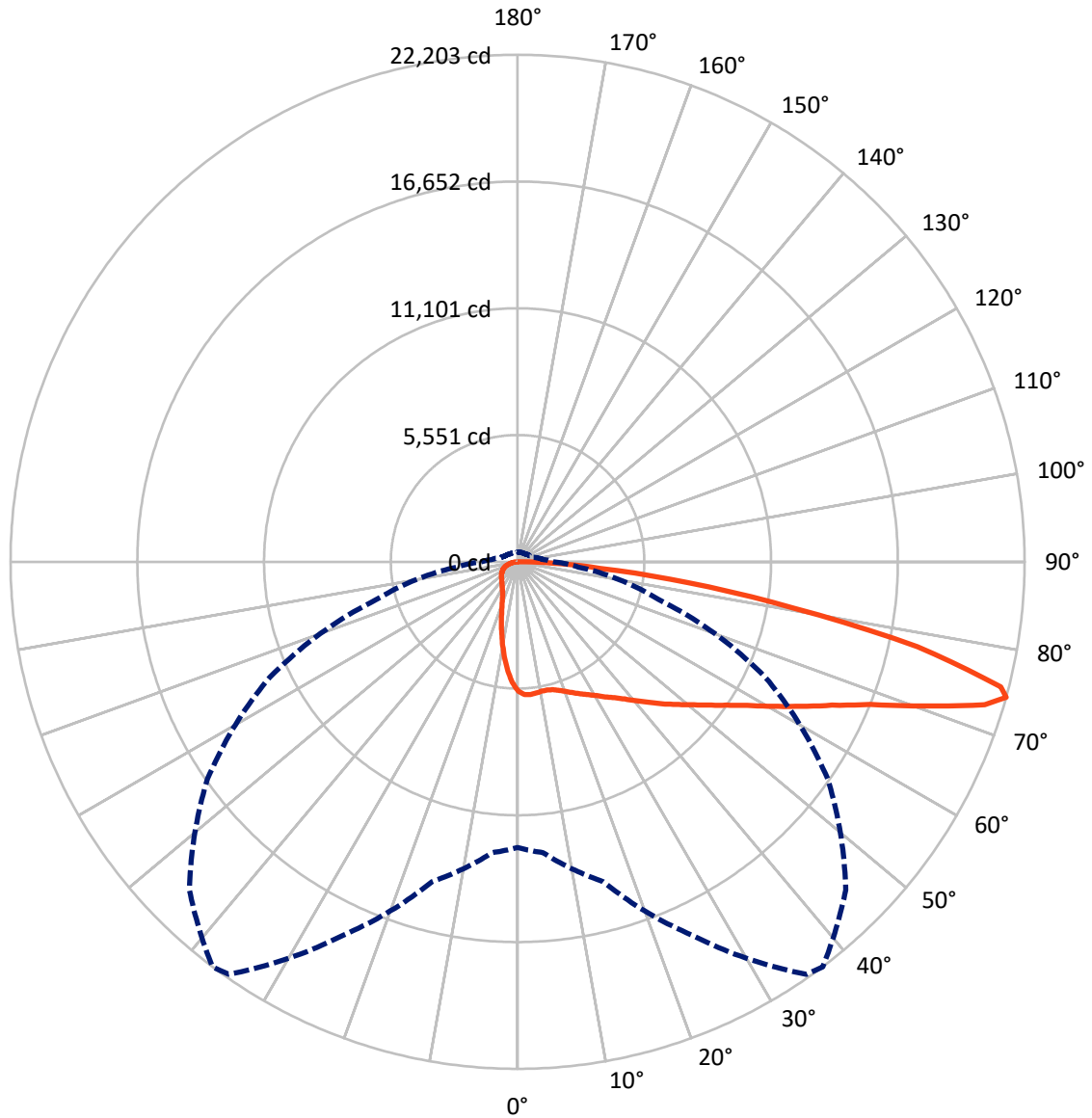
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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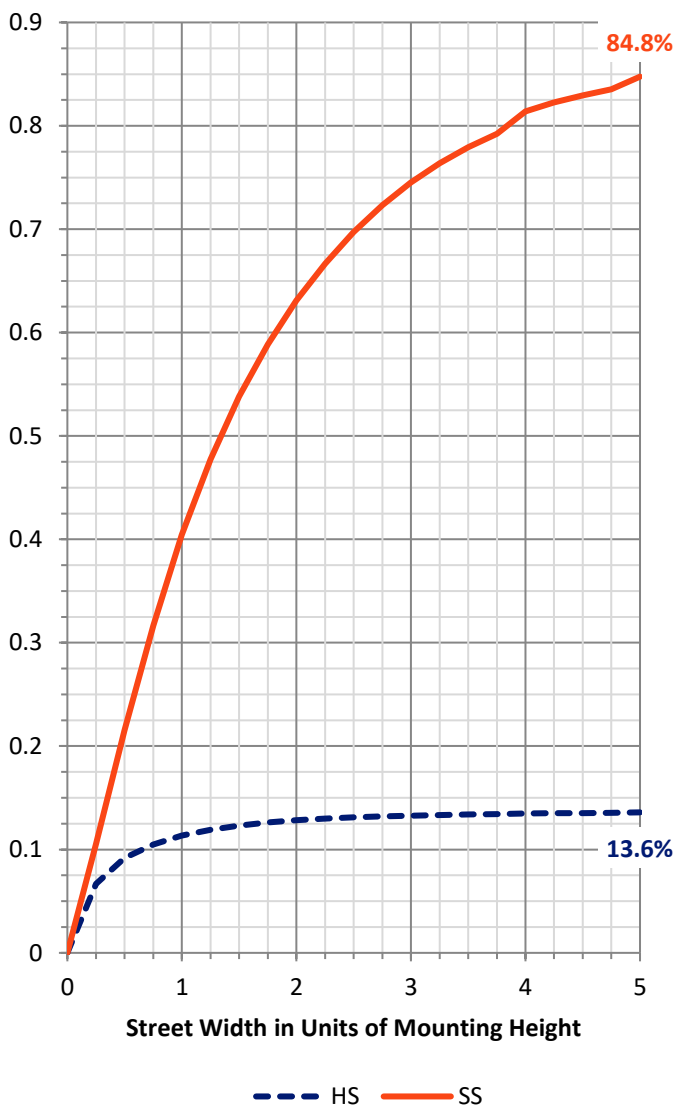
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4433.4	0.0	4433.4
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	27787.6	0.0	27787.6
	% Fixture	86.2	0.0	86.2
Total	Lumens	32221.0	0.0	32221.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.9	1.6
10°-20°	1281.5	4.0
20°-30°	1974.5	6.1
30°-40°	2871.2	8.9
40°-50°	4226.0	13.1
50°-60°	5934.6	18.4
60°-70°	7511.4	23.3
70°-80°	6614.1	20.5
80°-90°	1307.7	4.1
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°	32221.0	100.0
0°-180°	32221.0	100.0

Coefficient of Utilization

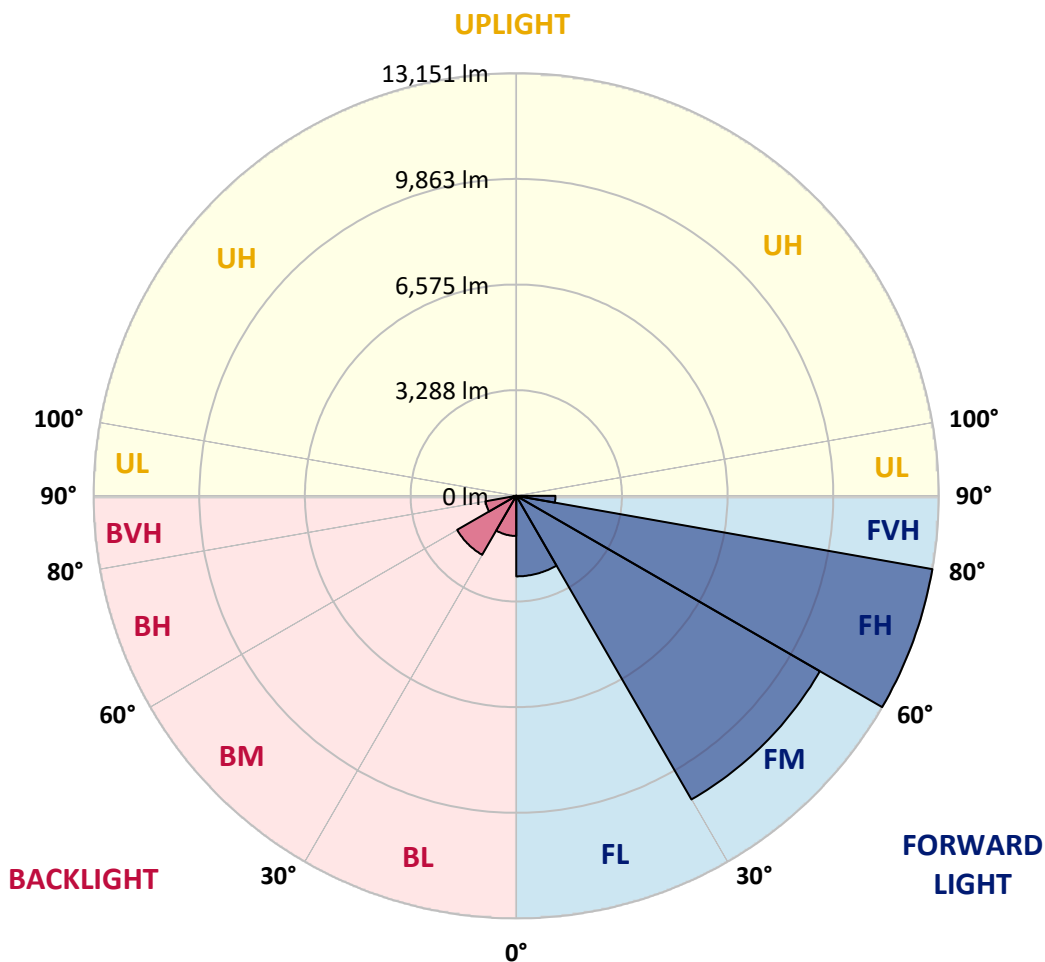


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2507.2	7.8			
FM (30°-60°)	10910.3	33.9			
FH (60°-80°)	13151.0	40.8			G5
FVH (80°-90°)	1219.2	3.8			G5
BL (0°-30°)	1248.8	3.9	B3/2500		
BM (30°-60°)	2121.5	6.6	B2/2500		
BH (60°-80°)	974.5	3.0	B2/1000		G2/1000
BVH (80°-90°)	88.6	0.3			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°	37°	45°	55°	65°	75°	85°
0°	5677.2	5677.2	5677.2	5677.2	5677.2	5677.2	5677.2	5677.2	5677.2	5677.2	5677.2
2.5°	5871.3	5872.4	5871.3	5862.2	5840.7	5822.5	5807.7	5786.2	5738.5	5702.2	5647.7
5°	5926.9	5920.1	5915.6	5898.5	5864.5	5844.1	5815.7	5774.8	5696.5	5623.9	5535.3
7.5°	5900.8	5892.9	5882.6	5862.2	5823.6	5806.6	5766.9	5713.5	5619.3	5524.0	5396.9
10°	5820.2	5818.0	5813.4	5808.9	5776.0	5762.3	5726.0	5669.3	5576.2	5460.4	5311.7
12.5°	5730.6	5736.2	5754.4	5778.2	5763.5	5756.7	5734.0	5695.4	5600.0	5475.2	5295.9
15°	5673.8	5689.7	5738.5	5800.9	5813.4	5811.1	5805.5	5780.5	5679.5	5541.0	5332.2
17.5°	5654.5	5680.6	5773.7	5877.0	5913.3	5921.2	5923.5	5880.4	5768.0	5621.6	5369.6
20°	5689.7	5722.6	5858.8	6000.7	6058.6	6063.1	6052.9	5978.0	5852.0	5690.8	5390.1
22.5°	5796.4	5825.9	5996.1	6156.2	6222.0	6228.8	6198.2	6084.7	5940.5	5772.6	5418.4
25°	6001.8	6038.1	6208.4	6368.4	6402.5	6403.6	6359.3	6218.6	6056.3	5887.2	5479.7
27.5°	6269.7	6306.0	6459.2	6615.9	6597.7	6587.5	6527.3	6386.6	6207.3	6045.0	5588.7
30°	6568.2	6607.9	6753.2	6864.4	6821.3	6800.9	6752.0	6570.5	6417.2	6260.6	5755.5
32.5°	6876.9	6913.2	7040.3	7116.4	7061.9	7052.8	6979.0	6813.3	6690.8	6589.7	6025.7
35°	7193.6	7219.7	7344.5	7387.6	7315.0	7312.7	7292.3	7140.2	7063.0	7110.7	6418.4
37.5°	7517.0	7523.8	7630.5	7632.8	7611.2	7620.3	7641.9	7546.5	7568.1	7716.8	6929.1
40°	7805.3	7823.5	7900.7	7924.5	7961.9	7993.7	8101.6	8039.1	8206.0	8469.3	7564.7
42.5°	8018.7	8053.9	8177.6	8238.9	8360.3	8410.3	8562.4	8620.2	8956.2	9351.2	8320.6
45°	8199.2	8253.6	8452.3	8578.2	8783.7	8871.1	9089.0	9283.1	9804.0	10308.0	9116.2
47.5°	8394.4	8463.6	8712.2	8952.8	9232.0	9330.7	9726.9	10017.4	10708.6	11270.4	9866.5
50°	8681.5	8734.9	8977.8	9355.7	9704.2	9831.3	10379.5	10796.0	11628.0	12187.5	10516.8
52.5°	9082.2	9061.8	9267.2	9797.2	10264.8	10421.5	11076.4	11624.6	12559.8	13017.2	11066.1
55°	9485.1	9451.1	9595.2	10259.2	10918.6	11083.2	11843.6	12456.5	13446.2	13764.0	11487.2
57.5°	9933.4	9868.7	9990.2	10780.1	11663.1	11859.5	12702.8	13340.7	14317.9	14367.8	11755.1
60°	10395.4	10308.0	10444.2	11425.9	12608.6	12840.1	13708.4	14203.3	15139.6	14851.3	11841.3
62.5°	10799.4	10738.1	10948.1	12146.7	13674.3	13928.6	14695.8	15120.3	15950.0	15052.2	11530.4
65°	11152.4	11162.6	11525.8	12957.0	14862.7	15133.9	15828.6	16250.8	16587.9	14933.1	10802.8
67.5°	11573.5	11631.4	12251.1	14023.9	16358.6	16656.0	17476.6	17483.4	16944.3	14233.9	9370.5
70°	12187.5	12306.7	13248.7	15504.0	18485.6	18894.2	19527.5	18207.5	16443.7	12338.5	7372.9
72.5°	12732.3	12954.8	14309.9	17197.4	21077.9	21387.7	20727.2	17789.8	14351.9	9246.8	4593.3
74°	12511.0	12786.8	14502.9	18031.6	22054.0	22202.7	20322.0	16570.8	11966.2	6403.6	2669.5
75°	12034.3	12333.9	14221.4	18023.6	21930.3	21847.4	19343.6	15178.2	9855.1	4367.4	1776.3
77.5°	9712.1	10028.8	11983.2	15447.2	17981.6	17903.3	14859.3	10182.0	4316.4	1432.4	902.3
80°	5646.6	5888.3	7438.7	9809.7	12125.1	12267.0	9772.3	5038.2	1697.9	804.7	611.8
82.5°	2508.3	2675.2	3593.4	5007.6	7317.3	7500.0	5117.7	2640.0	1048.7	489.2	367.7
85°	1645.7	1769.4	2181.4	2384.6	3484.4	3609.3	2504.9	2055.5	692.3	269.0	270.1
87.5°	1183.8	1303.0	1620.8	1415.3	1599.2	1514.1	1363.1	1902.2	278.1	153.2	90.8
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°	5677.2	5677.2	5677.2	5677.2	5677.2	5677.2	5677.2	5677.2	5677.2	5677.2	5677.2
2.5°	5623.9	5605.7	5564.9	5487.7	5444.5	5408.2	5348.1	5312.9	5297.0	5295.9	5302.7
5°	5484.3	5442.3	5336.7	5207.3	5104.0	5009.8	4892.9	4822.6	4772.6	4743.1	4751.1
7.5°	5322.0	5256.1	5090.4	4883.9	4718.1	4535.4	4355.0	4247.1	4163.1	4100.7	4112.1
10°	5210.7	5119.9	4878.2	4580.8	4305.0	4039.4	3790.9	3642.2	3524.1	3433.3	3440.2
12.5°	5173.3	5050.7	4715.9	4318.6	3931.6	3568.4	3243.8	3015.7	2894.2	2790.9	2798.9
15°	5179.0	5014.4	4579.7	4082.6	3595.6	3138.2	2744.4	2477.7	2313.1	2241.6	2242.7
17.5°	5183.5	4972.4	4436.7	3829.5	3263.1	2736.5	2308.6	2038.4	1882.9	1817.1	1818.3
20°	5168.7	4904.3	4259.6	3538.9	2915.8	2367.6	1953.3	1724.0	1606.0	1554.9	1554.9
22.5°	5149.4	4823.7	4059.9	3247.2	2573.0	2047.5	1699.1	1524.3	1456.2	1422.1	1421.0
25°	5158.5	4763.5	3855.6	2947.6	2257.5	1792.1	1530.0	1414.2	1368.8	1347.2	1346.1
27.5°	5207.3	4735.2	3667.1	2649.1	1981.7	1600.3	1416.5	1334.7	1305.2	1291.6	1291.6
30°	5295.9	4735.2	3470.8	2394.8	1752.4	1458.5	1329.1	1273.5	1253.0	1243.9	1243.9
32.5°	5450.2	4761.3	3281.3	2142.9	1569.7	1347.2	1256.4	1219.0	1203.1	1198.5	1198.5
35°	5715.8	4849.8	3096.3	1904.5	1422.1	1256.4	1187.2	1165.6	1154.3	1153.1	1156.6
37.5°	6089.2	5030.3	2922.6	1728.6	1317.7	1182.7	1129.3	1112.3	1105.5	1111.2	1115.7
40°	6559.1	5275.4	2764.8	1569.7	1238.3	1123.6	1076.0	1064.6	1061.2	1069.2	1076.0
42.5°	7126.6	5606.8	2635.4	1455.1	1177.0	1073.7	1030.6	1017.0	1013.5	1022.6	1031.7
45°	7740.6	5963.2	2544.6	1369.9	1129.3	1036.2	990.8	976.1	969.3	973.8	984.0
47.5°	8299.0	6300.3	2508.3	1309.8	1083.9	1004.5	955.7	937.5	926.2	923.9	931.8
50°	8770.1	6551.2	2525.4	1273.5	1047.6	969.3	921.6	901.2	884.2	873.9	879.6
52.5°	9112.8	6708.9	2541.2	1257.6	1019.2	930.7	884.2	864.9	842.2	825.1	825.1
55°	9361.4	6745.2	2506.1	1245.1	997.7	888.7	842.2	824.0	801.3	782.0	779.7
57.5°	9459.0	6643.1	2375.5	1226.9	982.9	849.0	797.9	784.3	765.0	742.3	741.1
60°	9327.3	6327.6	2123.6	1188.3	963.6	816.1	753.6	744.6	735.5	713.9	712.8
62.5°	8798.4	5635.2	1797.8	1110.0	925.0	780.9	712.8	717.3	718.4	703.7	701.4
65°	7839.4	4684.1	1480.0	1007.9	867.1	738.9	670.8	692.3	704.8	702.6	699.2
67.5°	6445.6	3645.6	1254.2	900.0	791.1	681.0	625.4	650.3	660.6	668.5	666.2
70°	4784.0	2570.8	1037.4	786.5	699.2	612.9	566.4	578.8	572.0	581.1	584.5
72.5°	2667.2	1542.5	845.6	673.0	603.8	533.4	500.5	498.3	483.5	483.5	483.5
74°	1600.3	1131.6	743.4	602.7	545.9	481.2	452.9	442.6	429.0	430.2	429.0
75°	1287.1	972.7	682.1	556.1	505.1	450.6	422.2	408.6	398.4	398.4	397.2
77.5°	812.7	738.9	549.3	442.6	404.1	371.1	351.8	333.7	333.7	332.6	331.4
80°	614.0	587.9	427.9	334.8	309.9	284.9	272.4	264.5	264.5	267.9	266.7
82.5°	421.1	442.6	300.8	233.8	221.3	203.2	200.9	202.0	198.6	194.1	192.9
85°	307.6	332.6	203.2	147.5	135.1	123.7	132.8	137.3	131.7	121.4	116.9
87.5°	118.0	217.9	109.0	61.3	56.7	48.8	56.7	59.0	63.6	49.9	51.1
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)