

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: P319484

Luminaire Tested: **GLEON-SA0B-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0B-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40734 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

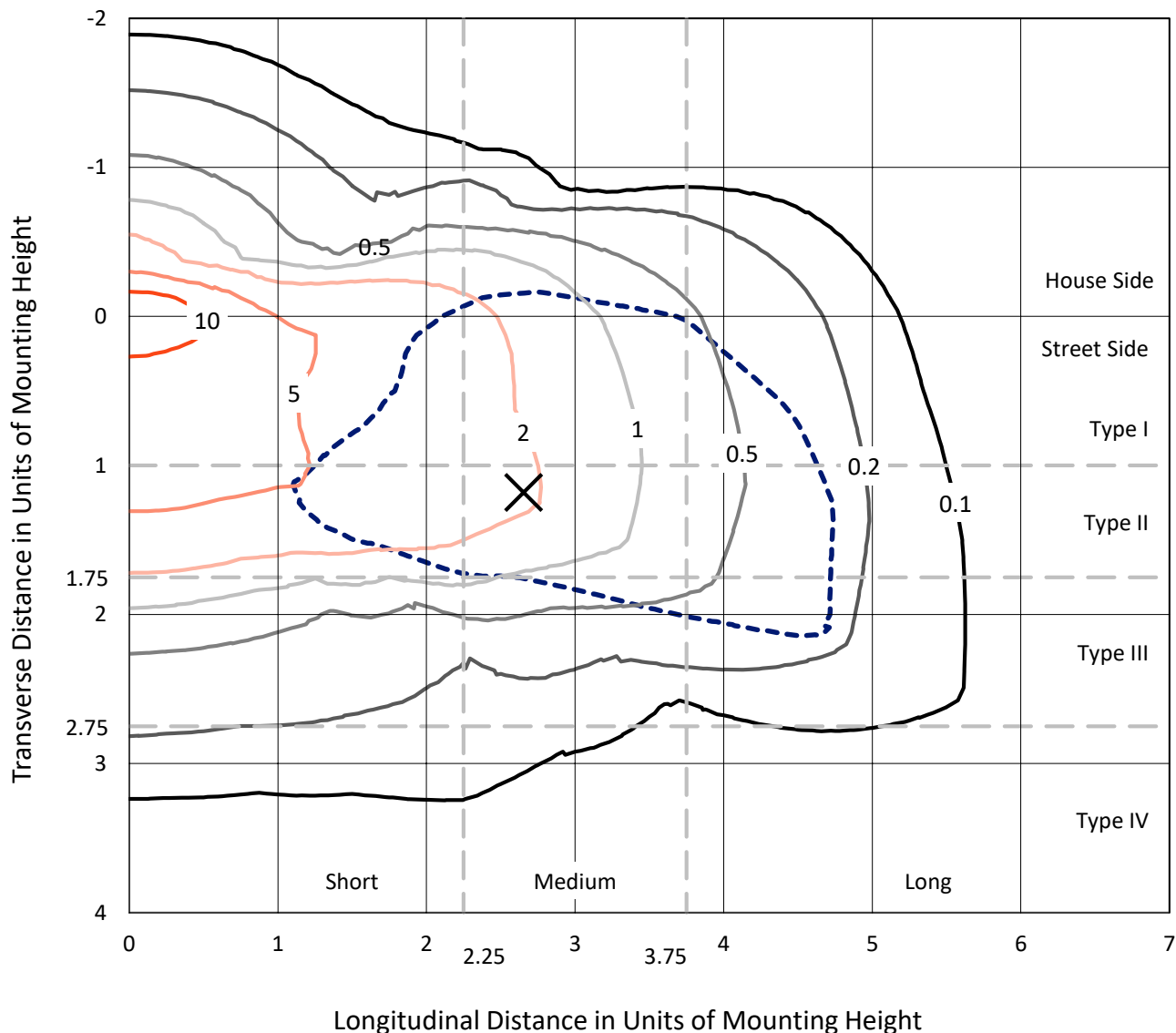
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319484
 CATALOG NUMBER: GLEON-SA0B-827-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

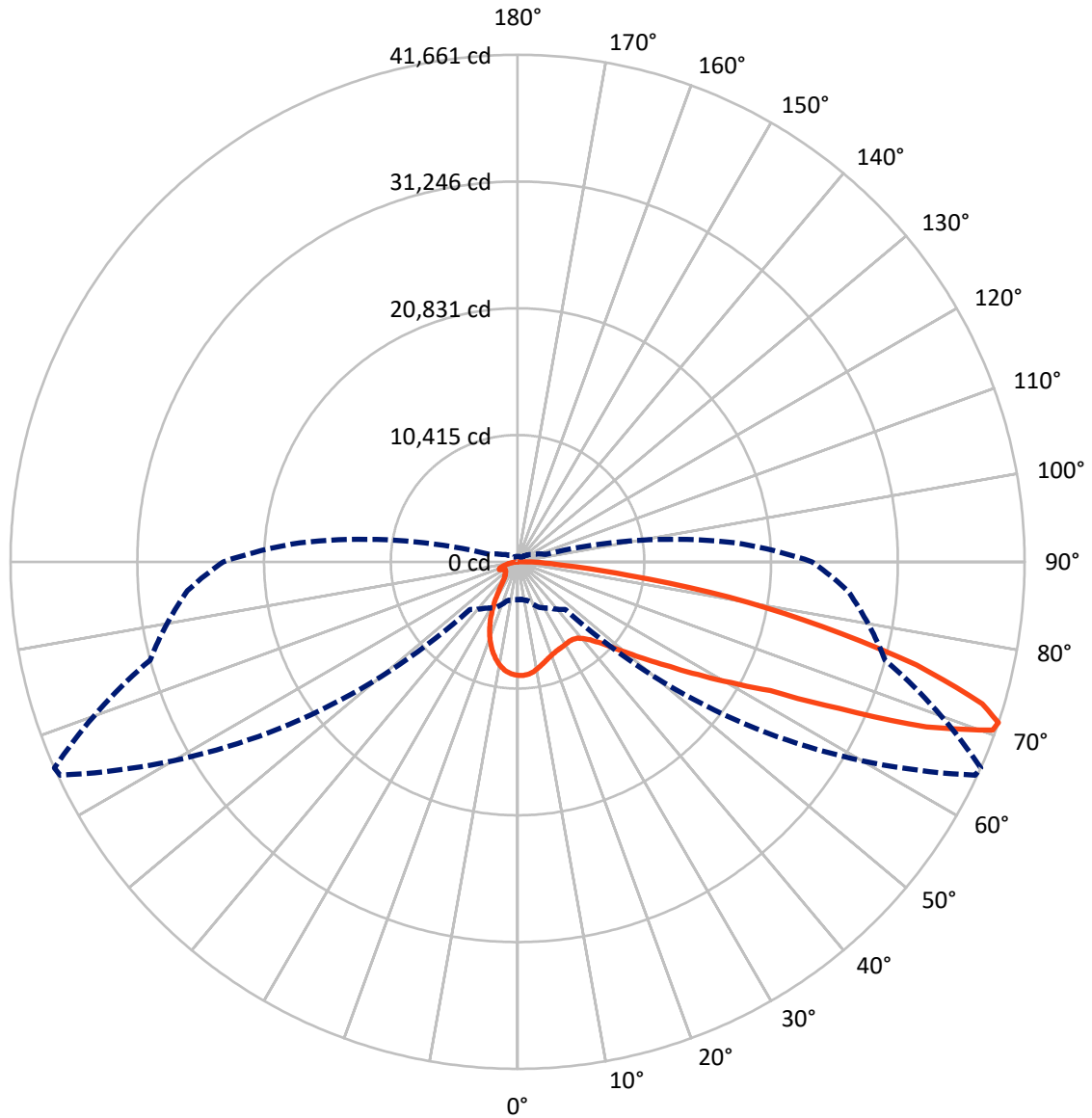
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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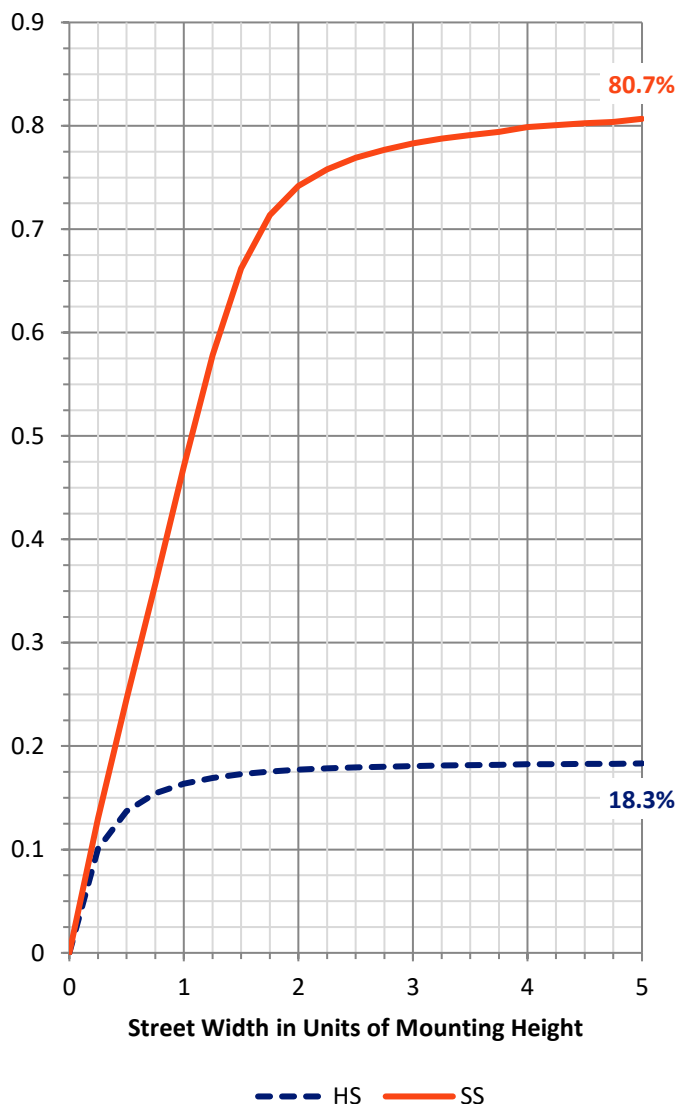
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7549.1	0.0	7549.1
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	33184.9	0.0	33184.9
	% Fixture	81.5	0.0	81.5
Total	Lumens	40734.0	0.0	40734.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	821.4	2.0
10°-20°	1970.0	4.8
20°-30°	2646.2	6.5
30°-40°	3481.1	8.5
40°-50°	5064.1	12.4
50°-60°	7910.6	19.4
60°-70°	9909.4	24.3
70°-80°	7558.6	18.6
80°-90°	1372.6	3.4
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°	40734.0	100.0
0°-180°	40734.0	100.0

Coefficient of Utilization

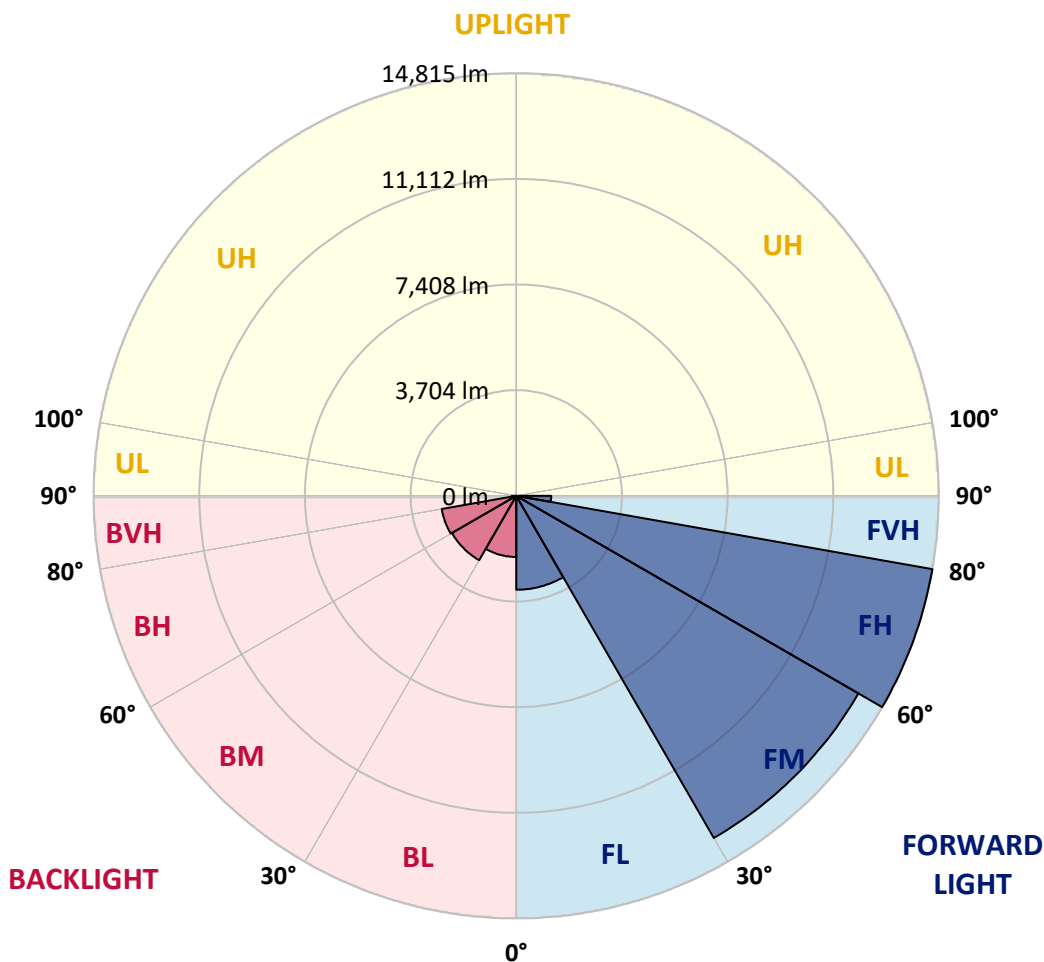


REPORT NUMBER: P319484
 CATALOG NUMBER: GLEON-SA0B-827-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3293.9	8.1			
FM (30°-60°)	13851.6	34.0			
FH (60°-80°)	14815.4	36.4			G5
FVH (80°-90°)	1224.0	3.0			G5
BL (0°-30°)	2143.7	5.3	B3/2500		
BM (30°-60°)	2604.2	6.4	B3/5000		
BH (60°-80°)	2652.6	6.5	B4/5000		G4/5000
BVH (80°-90°)	148.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9331.4	9331.4	9331.4	9331.4	9331.4	9331.4	9331.4	9331.4	9331.4	9331.4	9331.4
2.5°	9158.4	9144.3	9186.5	9230.1	9247.0	9275.1	9317.3	9341.2	9339.8	9344.0	9330.0
5°	8550.8	8532.5	8616.9	8685.8	8818.0	8967.1	9148.5	9277.9	9280.7	9353.9	9373.6
7.5°	7975.6	7963.0	8060.0	8171.1	8324.4	8552.2	8846.2	9124.6	9141.5	9339.8	9408.7
10°	7514.3	7511.5	7605.7	7726.7	7905.3	8159.9	8497.4	8905.2	8930.6	9272.3	9414.3
12.5°	7154.3	7159.9	7241.5	7379.3	7567.8	7833.6	8199.2	8659.1	8699.9	9165.4	9382.0
15°	6888.5	6911.0	6977.1	7116.3	7302.0	7572.0	7947.5	8431.3	8493.2	9045.9	9363.7
17.5°	6736.6	6761.9	6808.3	6923.6	7098.0	7358.2	7714.0	8244.2	8300.5	8954.5	9365.1
20°	6691.6	6712.7	6739.4	6809.7	6957.4	7193.7	7529.8	8075.5	8135.9	8881.3	9379.2
22.5°	6780.2	6795.7	6798.5	6792.8	6882.9	7075.5	7396.2	7951.7	8016.4	8833.5	9389.0
25°	6970.0	6991.1	6975.7	6923.6	6894.1	7012.2	7327.3	7870.1	7934.8	8798.4	9369.3
27.5°	7255.5	7258.4	7245.7	7178.2	7039.0	7019.3	7306.2	7822.3	7884.2	8757.6	9328.6
30°	7643.7	7662.0	7639.5	7548.1	7320.2	7131.8	7331.5	7775.9	7832.2	8705.5	9262.5
32.5°	8098.0	8143.0	8141.6	8045.9	7719.7	7383.5	7435.6	7747.8	7791.4	8650.7	9182.3
35°	8569.1	8631.0	8746.3	8705.5	8301.9	7781.5	7635.3	7792.8	7822.3	8643.6	9126.0
37.5°	9058.5	9120.4	9358.1	9467.8	8995.2	8351.1	7950.3	7951.7	7965.8	8729.4	9121.8
40°	9570.5	9636.6	9993.8	10279.3	9893.9	9072.6	8458.0	8283.6	8268.1	8940.4	9204.8
42.5°	10287.7	10346.8	10775.7	11140.0	10891.1	9996.6	9159.8	8795.5	8763.2	9353.9	9470.6
45°	11194.8	11245.5	11701.1	12090.7	11962.7	11051.4	10041.6	9500.1	9494.5	10043.0	10009.2
47.5°	12273.5	12312.9	12722.2	13099.1	13145.5	12265.1	11149.8	10587.3	10495.9	10988.1	10843.2
50°	13397.2	13440.8	13719.3	14124.3	14468.9	13889.5	12575.9	11919.1	11796.8	12235.6	12024.6
52.5°	14141.2	14198.9	14440.8	14954.1	15956.9	15670.0	14262.2	13533.7	13348.0	13747.4	13585.7
55°	13809.3	13938.7	14308.6	15131.3	17146.7	18389.9	16342.2	15416.8	15207.3	15539.2	15443.5
57.5°	12300.3	12477.5	12982.3	14252.3	17314.0	20786.4	19486.9	17634.7	17487.0	17391.4	17435.0
60°	9542.3	9712.5	10338.3	11993.7	16148.1	22535.9	24219.4	20368.7	20154.9	19250.6	19290.0
62.5°	6753.5	6667.7	7096.6	8307.5	13121.6	22741.3	29604.4	24025.3	23322.1	21213.9	21040.9
65°	5150.2	5130.5	5323.2	5708.5	7947.5	20284.3	32812.4	30171.2	29072.8	23523.2	23115.4
67.5°	4231.8	4196.7	4386.5	4947.7	5117.8	13086.4	32882.7	37301.6	36222.9	26397.9	25514.7
70°	3479.4	3440.0	3617.2	4341.5	4729.7	6636.7	27674.9	41477.1	41419.5	30037.6	27326.1
71°	3119.4	3091.2	3303.6	4108.1	4646.7	5531.3	23894.5	41488.4	41661.4	31269.6	27219.2
72.5°	2539.9	2549.8	2774.8	3656.6	4584.8	4884.4	17561.5	39554.6	39920.3	32443.9	26247.4
75°	1687.7	1696.1	1991.4	2812.8	4445.6	4778.9	9652.0	33190.7	33863.0	31740.7	23950.8
77.5°	1133.5	1130.7	1331.8	1929.6	3873.2	4778.9	5659.3	24824.1	25562.5	25255.9	18464.4
80°	780.5	774.9	917.0	1331.8	2932.3	4836.6	4375.3	17397.0	17620.6	13639.1	7504.5
82.5°	478.2	482.4	599.1	940.9	1995.7	4352.8	4130.6	9486.1	9242.8	3825.4	1874.7
85°	274.2	272.8	382.5	637.1	1281.2	3673.5	4027.9	4082.7	3745.2	1151.8	677.9
87.5°	98.4	105.5	205.3	353.0	734.1	2558.2	3417.5	2123.6	1914.1	520.4	306.6
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°	9331.4	9331.4	9331.4	9331.4	9331.4	9331.4	9331.4	9331.4	9331.4	9331.4	9331.4
2.5°	9320.1	9328.6	9318.7	9262.5	9214.6	9137.3	9093.7	9033.2	9014.9	9006.5	9029.0
5°	9355.3	9358.1	9275.1	9127.4	8961.5	8766.0	8625.4	8452.4	8370.8	8335.6	8358.2
7.5°	9387.6	9375.0	9193.5	8910.9	8604.3	8263.9	7961.6	7684.5	7522.8	7456.7	7462.3
10°	9391.8	9338.4	9047.3	8609.9	8134.5	7635.3	7171.2	6743.6	6473.6	6297.8	6351.2
12.5°	9348.2	9258.2	8832.1	8220.3	7560.7	6880.0	6252.8	5611.5	5226.1	5047.5	5053.1
15°	9314.5	9151.4	8567.7	7761.8	6875.8	5974.3	5117.8	4364.0	3953.4	3770.5	3684.7
17.5°	9286.4	9036.0	8261.1	7245.7	6067.1	4923.8	3894.3	3222.0	2997.0	2943.6	2921.1
20°	9247.0	8913.7	7919.4	6648.0	5146.0	3748.0	2843.7	2511.8	2513.2	2575.1	2583.5
22.5°	9192.1	8774.4	7555.1	5977.1	4157.3	2729.8	2229.1	2133.5	2230.5	2348.7	2369.8
25°	9110.6	8609.9	7150.1	5236.0	3170.0	2098.3	1904.2	1900.0	2018.2	2141.9	2160.2
27.5°	8995.2	8394.7	6700.0	4440.0	2336.0	1783.3	1705.9	1735.5	1822.7	1912.7	1919.7
30°	8840.5	8144.4	6203.6	3600.3	1831.1	1587.8	1579.4	1606.1	1659.5	1722.8	1728.4
32.5°	8670.4	7889.8	5673.4	2787.5	1568.1	1482.3	1490.8	1503.4	1528.7	1554.1	1559.7
35°	8515.7	7629.6	5130.5	2118.0	1443.0	1413.4	1407.8	1405.0	1407.8	1399.4	1400.8
37.5°	8415.8	7414.5	4565.1	1686.3	1371.2	1352.9	1336.1	1315.0	1291.1	1277.0	1279.8
40°	8379.2	7254.1	3992.7	1457.0	1312.2	1299.5	1267.2	1222.1	1194.0	1185.6	1185.6
42.5°	8477.7	7171.2	3440.0	1341.7	1262.9	1241.8	1188.4	1136.4	1115.3	1113.9	1112.5
45°	8778.7	7204.9	2914.0	1278.4	1217.9	1177.1	1106.8	1063.2	1049.2	1052.0	1050.6
47.5°	9318.7	7417.3	2464.0	1236.2	1172.9	1119.5	1040.7	1005.6	988.7	988.7	990.1
50°	10237.1	7913.7	2105.4	1201.1	1135.0	1066.0	992.9	949.3	926.8	925.4	925.4
52.5°	11574.6	8802.6	1881.7	1171.5	1092.8	1018.2	945.1	890.2	863.5	857.9	855.1
55°	13251.0	10076.8	1819.9	1151.8	1036.5	966.2	887.4	832.6	803.0	790.4	789.0
57.5°	15125.7	11626.6	1942.2	1127.9	978.8	904.3	824.1	772.1	741.2	725.7	724.3
60°	17022.9	13318.5	2441.5	1094.2	931.0	836.8	759.4	711.6	680.7	663.8	661.0
62.5°	18922.9	15101.8	3461.1	1091.4	897.3	772.1	693.3	652.6	623.0	604.7	600.5
65°	21066.3	17053.8	4620.0	1165.9	886.0	713.0	625.8	593.5	568.2	551.3	549.9
67.5°	23527.4	19257.6	4508.9	1319.2	924.0	659.6	562.6	537.2	519.0	504.9	503.5
70°	24682.1	18913.1	2802.9	1427.5	977.4	607.6	502.1	483.8	469.7	459.9	455.7
71°	24198.3	17958.1	2350.1	1414.8	971.8	585.1	478.2	464.1	450.0	441.6	437.4
72.5°	22879.1	16377.4	1960.5	1316.4	908.5	544.3	447.2	433.2	420.5	410.7	407.9
75°	20530.4	14626.4	1569.5	1052.0	724.3	459.9	392.4	376.9	367.1	361.4	355.8
77.5°	15091.9	10438.2	1213.7	831.2	533.0	375.5	334.7	323.5	313.6	305.2	301.0
80°	5781.7	4043.4	817.1	620.2	391.0	296.7	270.0	264.4	254.6	248.9	248.9
82.5°	1556.9	1208.1	436.0	375.5	261.6	216.6	206.7	203.9	195.5	184.2	185.6
85°	630.1	533.0	244.7	206.7	160.3	128.0	139.2	140.6	130.8	116.7	118.1
87.5°	277.1	226.4	136.4	91.4	70.3	49.2	63.3	63.3	57.7	47.8	43.6
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)