

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: P319491

Luminaire Tested: **GLEON-SA7C-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319491
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-SA7C-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA 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: 36029 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

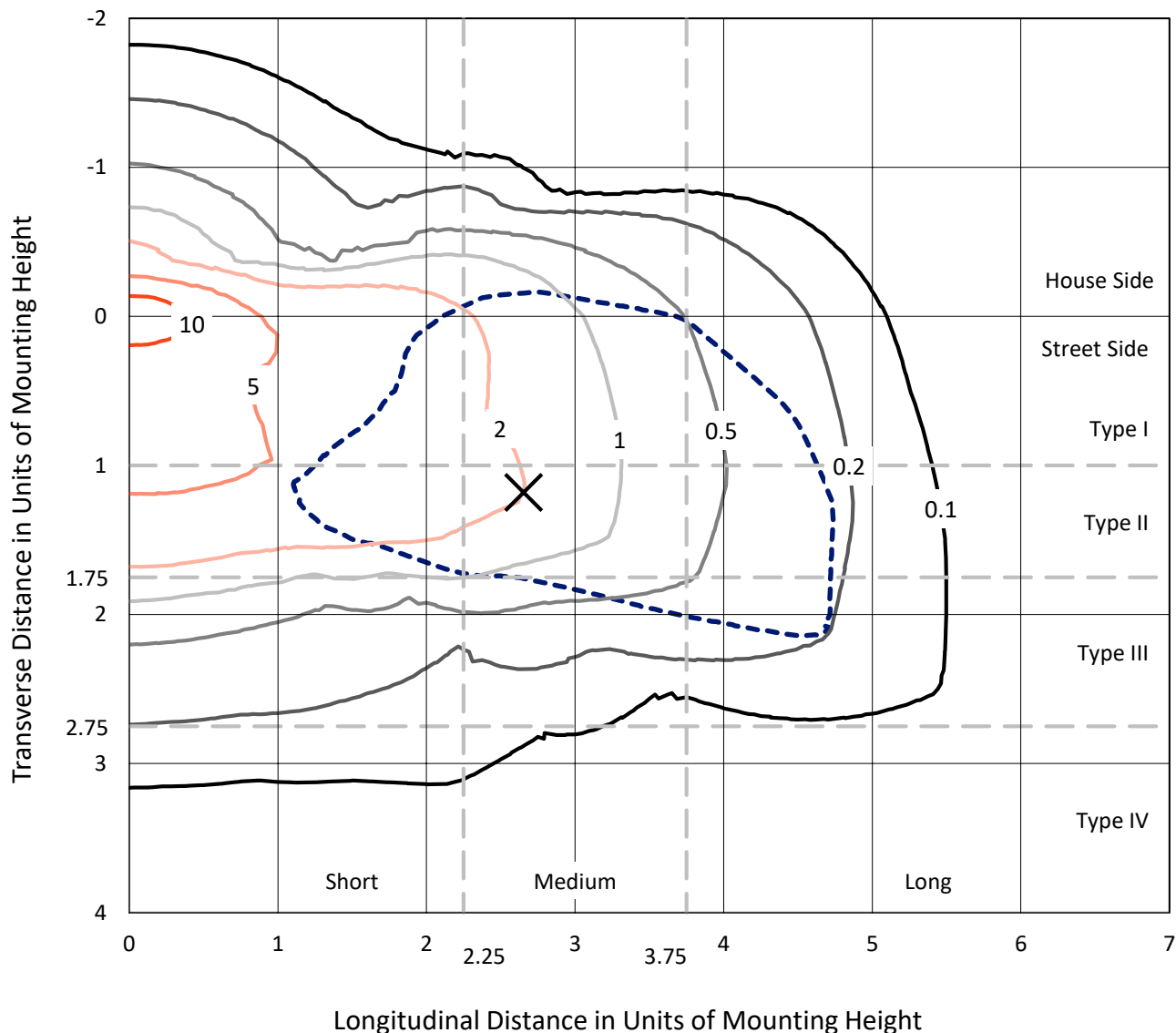
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319491
 CATALOG NUMBER: GLEON-SA7C-827-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

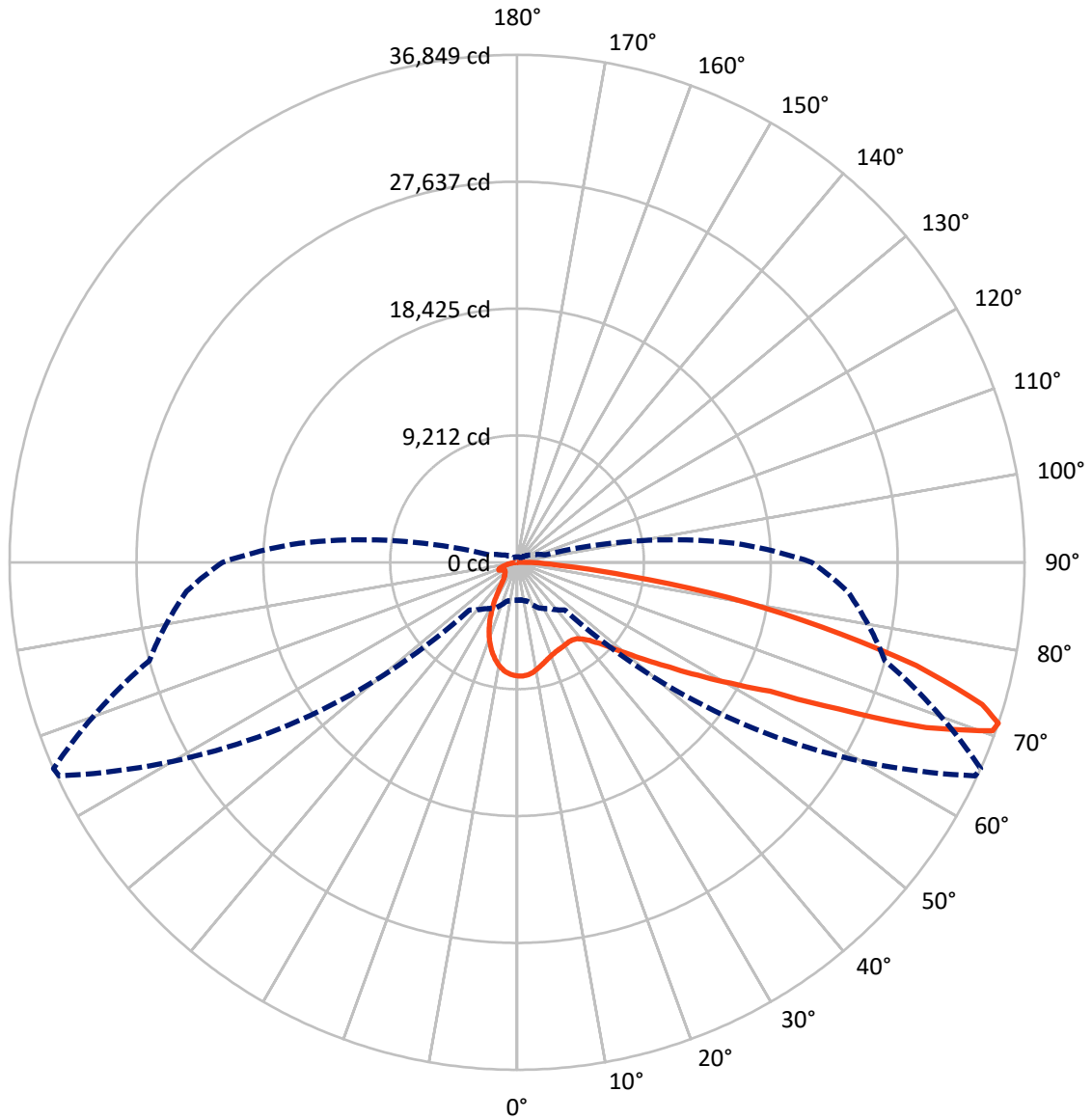
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P319491
CATALOG NUMBER: GLEON-SA7C-827-U-SL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P319491
 CATALOG NUMBER: GLEON-SA7C-827-U-SL2

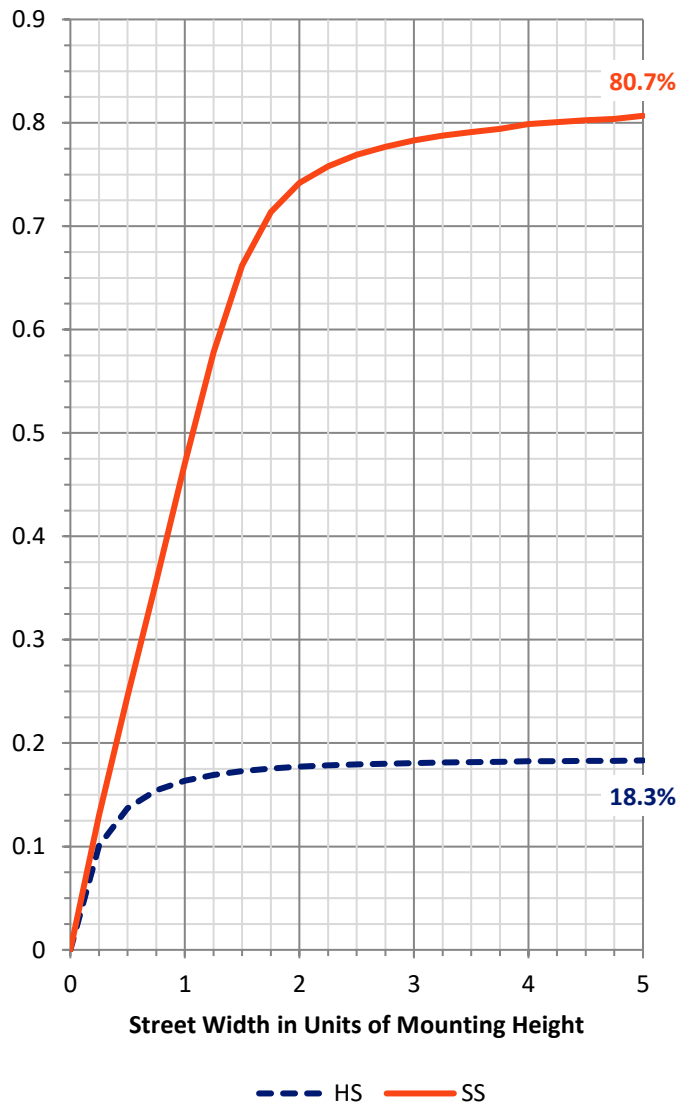
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6677.2	0.0	6677.2
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	29351.9	0.0	29351.9
	% Fixture	81.5	0.0	81.5
Total	Lumens	36029.0	0.0	36029.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	726.5	2.0
10°-20°	1742.5	4.8
20°-30°	2340.6	6.5
30°-40°	3079.0	8.5
40°-50°	4479.1	12.4
50°-60°	6996.9	19.4
60°-70°	8764.8	24.3
70°-80°	6685.6	18.6
80°-90°	1214.0	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°	36029.0	100.0
0°-180°	36029.0	100.0

Coefficient of Utilization

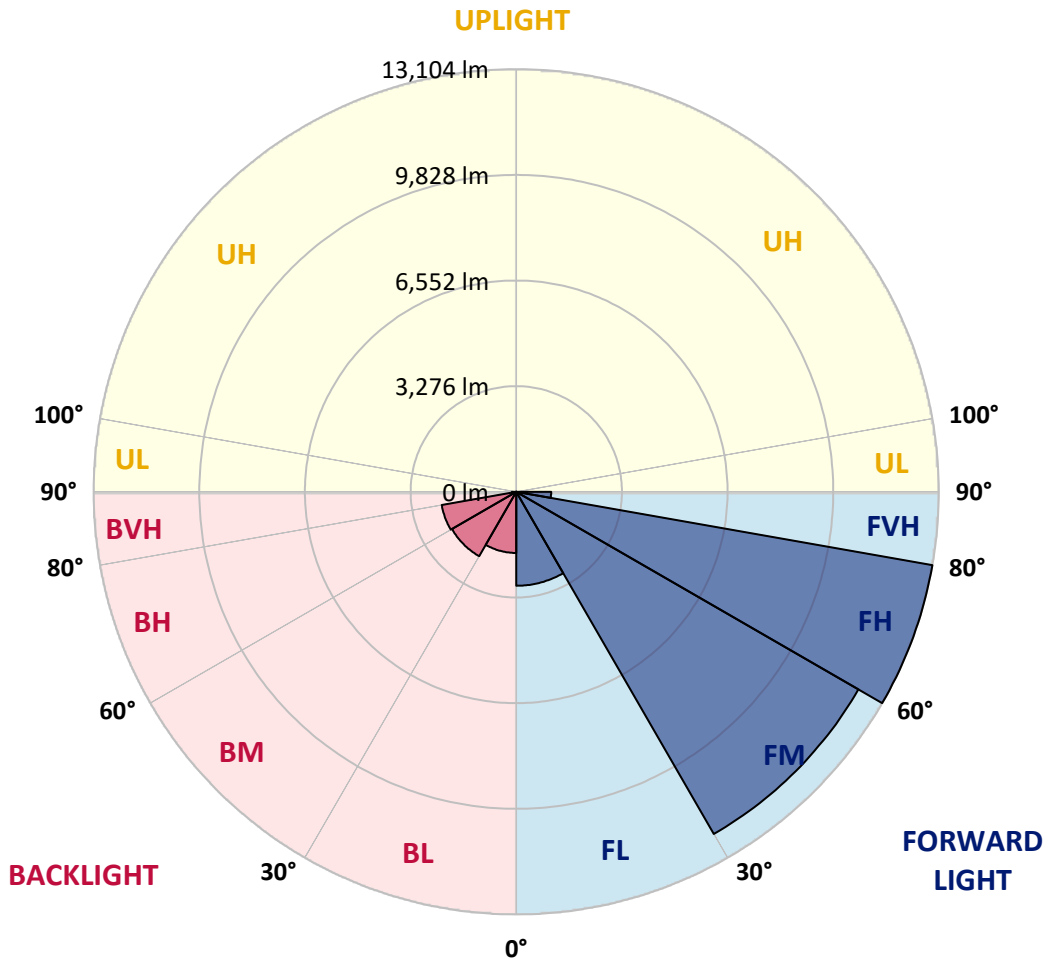


REPORT NUMBER: P319491
 CATALOG NUMBER: GLEON-SA7C-827-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2913.4	8.1			
FM (30°-60°)	12251.7	34.0			
FH (60°-80°)	13104.1	36.4			G5
FVH (80°-90°)	1082.6	3.0			G5
BL (0°-30°)	1896.1	5.3	B3/2500		
BM (30°-60°)	2303.4	6.4	B2/2500		
BH (60°-80°)	2346.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	131.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





REPORT NUMBER: P319491

CATALOG NUMBER: GLEON-SA7C-827-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8253.5	8253.5	8253.5	8253.5	8253.5	8253.5	8253.5	8253.5	8253.5	8253.5	8253.5
2.5°	8100.5	8088.1	8125.4	8164.0	8178.9	8203.8	8241.1	8262.3	8261.0	8264.7	8252.3
5°	7563.2	7547.0	7621.6	7682.6	7799.5	7931.4	8091.8	8206.3	8208.8	8273.4	8290.9
7.5°	7054.4	7043.2	7129.0	7227.3	7362.9	7564.4	7824.4	8070.7	8085.6	8261.0	8322.0
10°	6646.4	6643.9	6727.2	6834.2	6992.2	7217.3	7515.9	7876.6	7899.0	8201.3	8326.9
12.5°	6327.9	6332.9	6405.1	6527.0	6693.6	6928.7	7252.2	7658.9	7695.0	8106.8	8298.3
15°	6092.8	6112.7	6171.2	6294.3	6458.5	6697.4	7029.5	7457.4	7512.2	8001.0	8282.2
17.5°	5958.5	5980.9	6021.9	6123.9	6278.2	6508.3	6823.0	7292.0	7341.7	7920.2	8283.4
20°	5918.7	5937.3	5961.0	6023.2	6153.8	6362.8	6660.1	7142.7	7196.2	7855.5	8295.8
22.5°	5997.0	6010.7	6013.2	6008.2	6087.8	6258.3	6541.9	7033.2	7090.5	7813.2	8304.5
25°	6165.0	6183.6	6169.9	6123.9	6097.8	6202.3	6480.9	6961.1	7018.3	7782.1	8287.1
27.5°	6417.5	6420.0	6408.8	6349.1	6225.9	6208.5	6462.3	6918.8	6973.5	7746.0	8251.1
30°	6760.8	6777.0	6757.1	6676.2	6474.7	6308.0	6484.7	6877.7	6927.5	7700.0	8192.6
32.5°	7162.6	7202.4	7201.2	7116.6	6828.0	6530.7	6576.7	6852.9	6891.4	7651.5	8121.7
35°	7579.3	7634.1	7736.1	7700.0	7343.0	6882.7	6753.4	6892.7	6918.8	7645.3	8071.9
37.5°	8012.2	8067.0	8277.2	8374.2	7956.2	7386.5	7032.0	7033.2	7045.7	7721.1	8068.2
40°	8465.0	8523.5	8839.4	9092.0	8751.1	8024.7	7481.1	7326.8	7313.1	7907.7	8141.6
42.5°	9099.4	9151.7	9531.1	9853.3	9633.1	8841.9	8101.8	7779.6	7751.0	8273.4	8376.7
45°	9901.8	9946.5	10349.6	10694.2	10581.0	9774.9	8881.7	8402.8	8397.8	8883.0	8853.1
47.5°	10855.9	10890.7	11252.7	11586.1	11627.1	10848.4	9862.0	9364.4	9283.5	9718.9	9590.8
50°	11849.8	11888.3	12134.6	12492.9	12797.7	12285.2	11123.3	10542.4	10434.2	10822.3	10635.7
52.5°	12507.8	12558.8	12772.8	13226.8	14113.8	13860.0	12614.8	11970.4	11806.2	12159.5	12016.5
55°	12214.3	12328.7	12655.9	13383.6	15166.1	16265.8	14454.6	13636.1	13450.7	13744.3	13659.7
57.5°	10879.5	11036.2	11482.8	12606.1	15314.2	18385.4	17236.0	15597.8	15467.2	15382.6	15421.1
60°	8440.1	8590.7	9144.2	10608.3	14282.9	19932.9	21421.9	18016.0	17826.9	17027.1	17061.9
62.5°	5973.4	5897.5	6276.9	7348.0	11606.0	20114.5	26185.0	21250.2	20628.3	18763.6	18610.6
65°	4555.3	4537.9	4708.3	5049.2	7029.5	17941.4	29022.4	26686.3	25714.7	20806.2	20445.4
67.5°	3743.0	3711.9	3879.9	4376.2	4526.7	11574.9	29084.6	32993.0	32038.9	23348.8	22567.6
70°	3077.5	3042.7	3199.4	3840.0	4183.4	5870.2	24478.3	36686.3	36635.3	26568.1	24169.8
71°	2759.1	2734.2	2922.0	3633.6	4110.0	4892.4	21134.6	36696.2	36849.3	27657.8	24075.2
72.5°	2246.6	2255.3	2454.3	3234.2	4055.2	4320.2	15533.1	34985.8	35309.3	28696.5	23215.7
75°	1492.7	1500.2	1761.4	2487.9	3932.1	4226.9	8537.2	29357.0	29951.6	28074.5	21184.3
77.5°	1002.6	1000.1	1178.0	1706.7	3425.8	4226.9	5005.6	21956.8	22609.9	22338.7	16331.7
80°	690.4	685.4	811.0	1178.0	2593.6	4277.9	3869.9	15387.5	15585.3	12063.7	6637.7
82.5°	422.9	426.7	529.9	832.2	1765.2	3850.0	3653.5	8390.4	8175.2	3383.5	1658.2
85°	242.6	241.3	338.4	563.5	1133.2	3249.2	3562.6	3611.2	3312.6	1018.8	599.6
87.5°	87.1	93.3	181.6	312.2	649.3	2262.7	3022.8	1878.4	1693.0	460.3	271.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P319491
 CATALOG NUMBER: GLEON-SA7C-827-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8253.5	8253.5	8253.5	8253.5	8253.5	8253.5	8253.5	8253.5	8253.5	8253.5	8253.5
2.5°	8243.6	8251.1	8242.4	8192.6	8150.3	8081.9	8043.3	7989.8	7973.7	7966.2	7986.1
5°	8274.7	8277.2	8203.8	8073.2	7926.4	7753.5	7629.1	7476.1	7403.9	7372.8	7392.7
7.5°	8303.3	8292.1	8131.6	7881.6	7610.4	7309.4	7041.9	6796.9	6653.8	6595.4	6600.3
10°	8307.0	8259.8	8002.3	7615.4	7195.0	6753.4	6342.9	5964.7	5725.9	5570.4	5617.6
12.5°	8268.5	8188.9	7811.9	7270.8	6687.4	6085.4	5530.6	4963.3	4622.5	4464.5	4469.5
15°	8238.6	8094.3	7578.1	6865.3	6081.6	5284.3	4526.7	3859.9	3496.7	3335.0	3259.1
17.5°	8213.7	7992.3	7306.9	6408.8	5366.4	4355.0	3444.5	2849.9	2650.8	2603.6	2583.7
20°	8178.9	7884.1	7004.6	5880.1	4551.6	3315.1	2515.2	2221.7	2222.9	2277.7	2285.1
22.5°	8130.4	7760.9	6682.4	5286.7	3677.1	2414.5	1971.6	1887.1	1972.9	2077.4	2096.0
25°	8058.2	7615.4	6324.2	4631.2	2803.8	1856.0	1684.3	1680.6	1785.1	1894.5	1910.7
27.5°	7956.2	7425.1	5926.1	3927.1	2066.2	1577.3	1508.9	1535.0	1612.1	1691.8	1698.0
30°	7819.4	7203.7	5487.0	3184.5	1619.6	1404.4	1396.9	1420.6	1467.8	1523.8	1528.8
32.5°	7668.9	6978.5	5018.1	2465.5	1387.0	1311.1	1318.6	1329.8	1352.2	1374.6	1379.5
35°	7532.1	6748.4	4537.9	1873.4	1276.3	1250.2	1245.2	1242.7	1245.2	1237.7	1239.0
37.5°	7443.7	6558.1	4037.8	1491.5	1212.8	1196.7	1181.7	1163.1	1141.9	1129.5	1132.0
40°	7411.4	6416.2	3531.5	1288.7	1160.6	1149.4	1120.8	1081.0	1056.1	1048.6	1048.6
42.5°	7498.5	6342.9	3042.7	1186.7	1117.1	1098.4	1051.1	1005.1	986.4	985.2	984.0
45°	7764.7	6372.7	2577.4	1130.7	1077.3	1041.2	979.0	940.4	928.0	930.5	929.2
47.5°	8242.4	6560.5	2179.4	1093.4	1037.4	990.2	920.5	889.4	874.5	874.5	875.7
50°	9054.6	6999.7	1862.2	1062.3	1003.9	942.9	878.2	839.7	819.8	818.5	818.5
52.5°	10237.6	7785.8	1664.4	1036.2	966.5	900.6	835.9	787.4	763.8	758.8	756.3
55°	11720.4	8912.8	1609.7	1018.8	916.8	854.6	784.9	736.4	710.3	699.1	697.9
57.5°	13378.6	10283.7	1717.9	997.6	865.8	799.9	728.9	682.9	655.6	641.9	640.6
60°	15056.7	11780.1	2159.5	967.8	823.5	740.1	671.7	629.4	602.1	587.1	584.7
62.5°	16737.2	13357.4	3061.3	965.3	793.6	682.9	613.3	577.2	551.1	534.9	531.2
65°	18633.0	15084.0	4086.3	1031.2	783.7	630.7	553.6	524.9	502.6	487.6	486.4
67.5°	20809.9	17033.3	3988.1	1166.8	817.3	583.4	497.6	475.2	459.0	446.6	445.3
70°	21831.2	16728.5	2479.2	1262.6	864.5	537.4	444.1	427.9	415.5	406.8	403.0
71°	21403.2	15883.9	2078.6	1251.4	859.6	517.5	422.9	410.5	398.1	390.6	386.9
72.5°	20236.4	14485.7	1734.1	1164.3	803.6	481.4	395.6	383.1	371.9	363.2	360.7
75°	18159.0	12937.0	1388.2	930.5	640.6	406.8	347.1	333.4	324.7	319.7	314.7
77.5°	13348.7	9232.5	1073.5	735.2	471.5	332.1	296.1	286.1	277.4	269.9	266.2
80°	5113.8	3576.3	722.7	548.6	345.8	262.5	238.8	233.9	225.2	220.2	220.2
82.5°	1377.0	1068.5	385.6	332.1	231.4	191.6	182.9	180.4	172.9	163.0	164.2
85°	557.3	471.5	216.4	182.9	141.8	113.2	123.2	124.4	115.7	103.2	104.5
87.5°	245.1	200.3	120.7	80.9	62.2	43.5	56.0	56.0	51.0	42.3	38.6
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)