

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: P319790

Luminaire Tested: **GLEON-SA6A-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6A-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20491 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 193
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

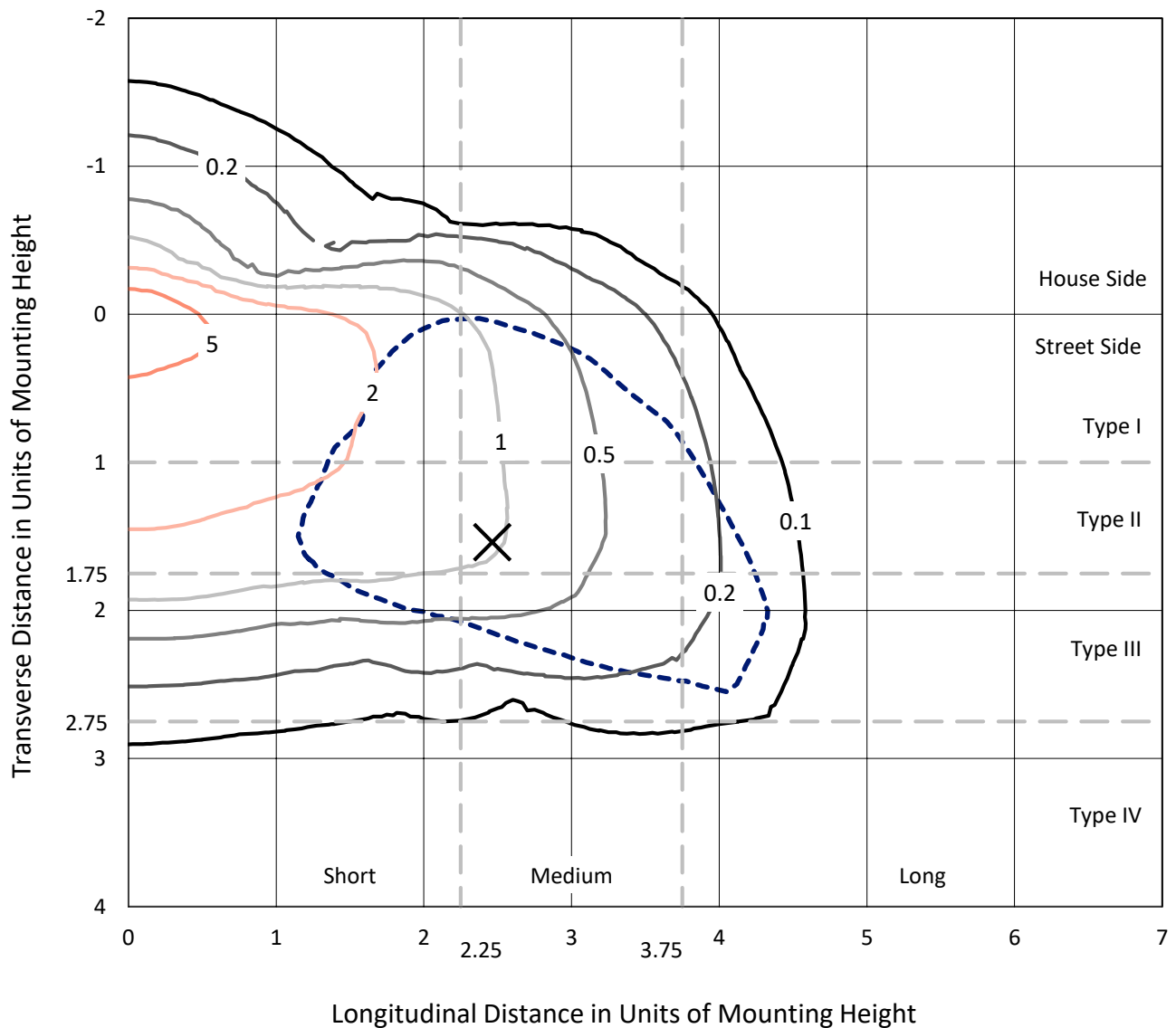




REPORT NUMBER: P319790
 CATALOG NUMBER: GLEON-SA6A-827-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

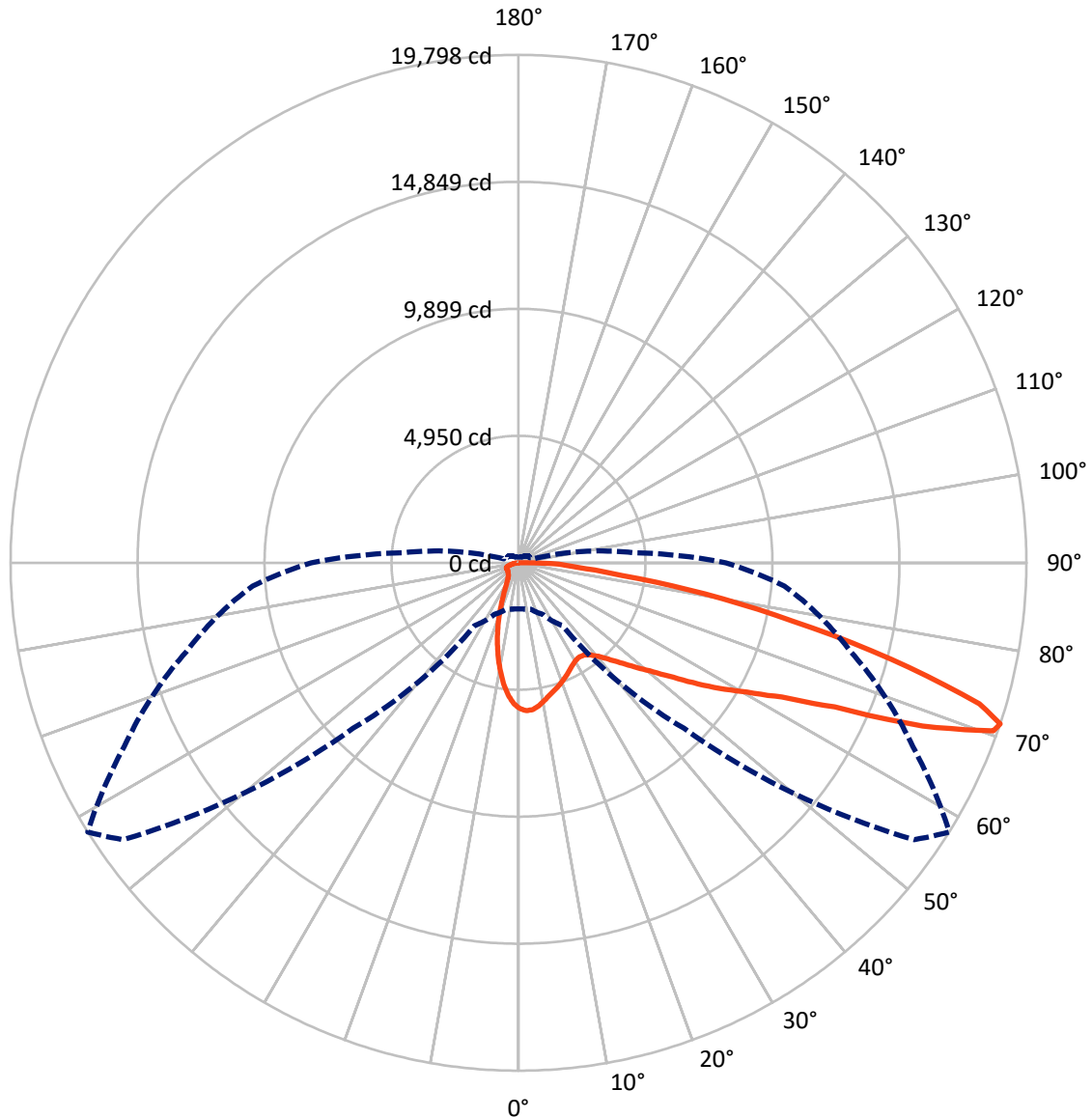
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P319790
CATALOG NUMBER: GLEON-SA6A-827-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P319790
 CATALOG NUMBER: GLEON-SA6A-827-U-SL3

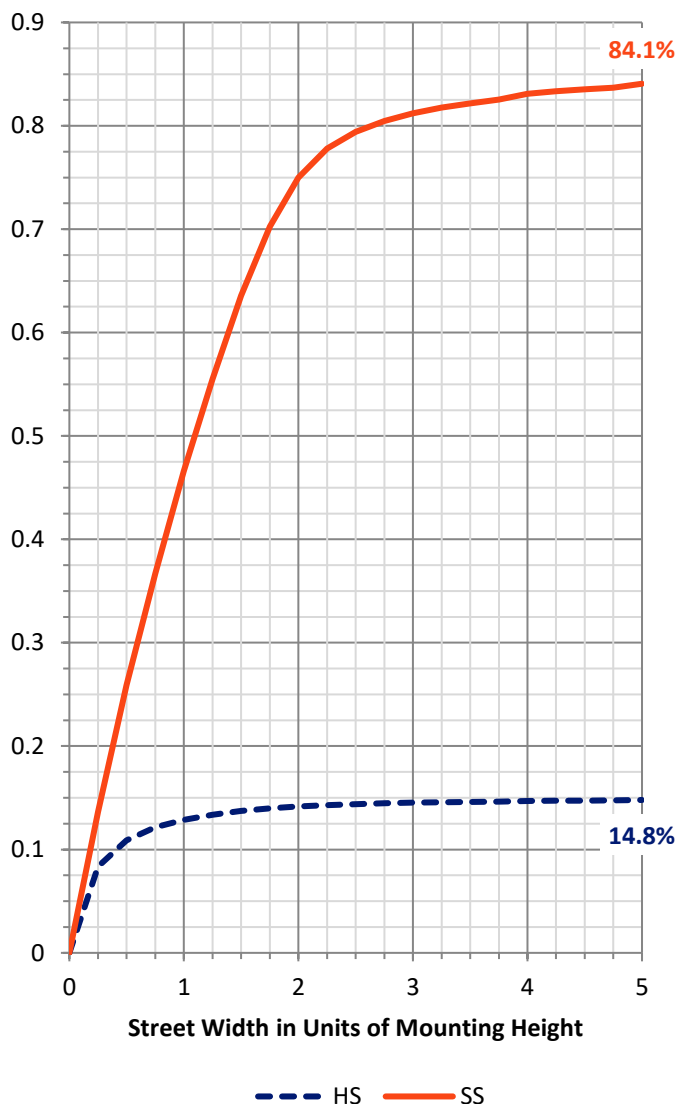
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3063.5	0.0	3063.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	17427.5	0.0	17427.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	20491.0	0.0	20491.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.8	2.4
10°-20°	1089.1	5.3
20°-30°	1384.1	6.8
30°-40°	1763.1	8.6
40°-50°	2500.2	12.2
50°-60°	3869.1	18.9
60°-70°	5267.3	25.7
70°-80°	3513.9	17.1
80°-90°	614.4	3.0
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°	20491.0	100.0
0°-180°	20491.0	100.0

Coefficient of Utilization

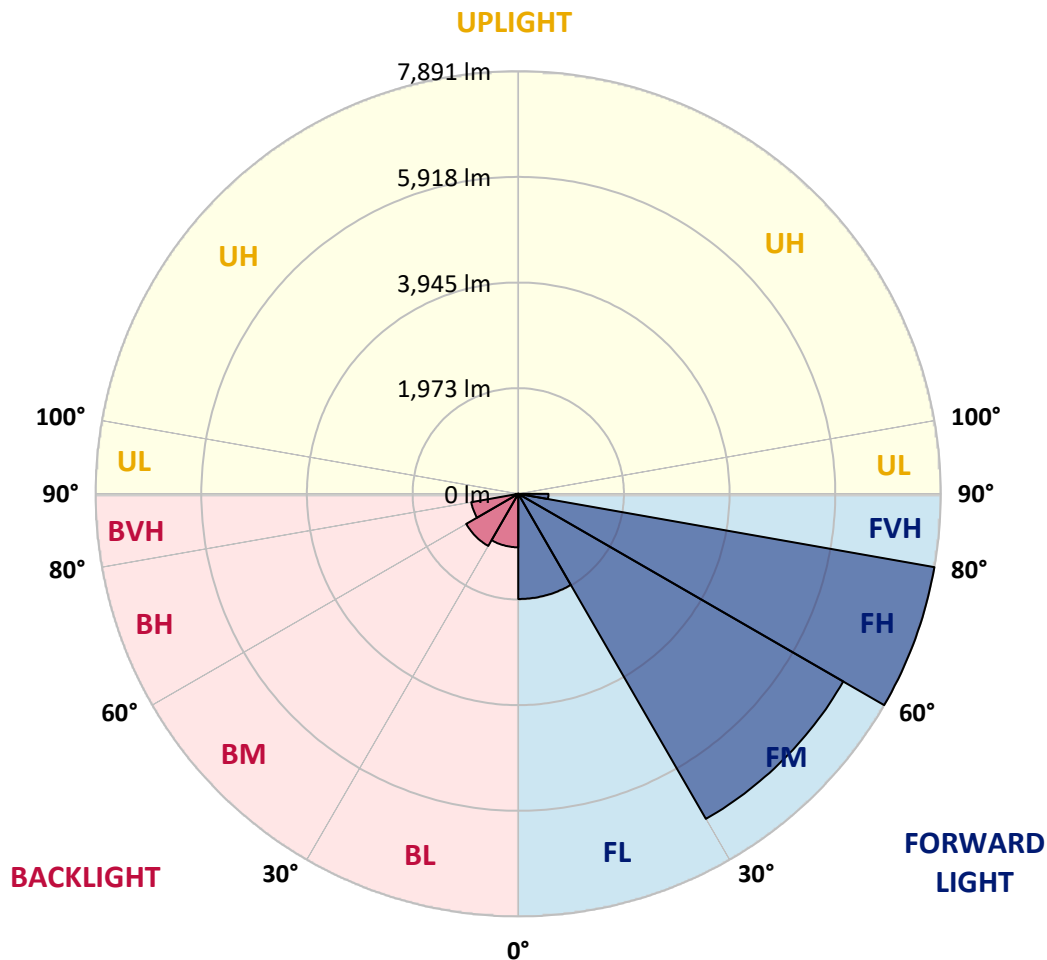


REPORT NUMBER: P319790
 CATALOG NUMBER: GLEON-SA6A-827-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1964.4	9.6			
FM (30°-60°)	7008.9	34.2			
FH (60°-80°)	7890.8	38.5			G4/12000
FVH (80°-90°)	563.3	2.7			G4/750
BL (0°-30°)	998.6	4.9	B2/1000		
BM (30°-60°)	1123.5	5.5	B2/2500		
BH (60°-80°)	890.4	4.3	B2/1000		G2/1000
BVH (80°-90°)	51.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Medium





REPORT NUMBER: P319790

CATALOG NUMBER: GLEON-SA6A-827-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4
2.5°	5828.0	5820.1	5823.0	5817.3	5803.7	5790.2	5770.2	5773.7	5745.9	5704.5	5653.1
5°	5718.1	5715.2	5736.6	5748.8	5758.7	5750.9	5745.2	5752.3	5711.6	5654.5	5565.3
7.5°	5487.5	5456.1	5483.2	5523.9	5562.5	5591.7	5630.3	5635.3	5609.6	5549.6	5432.6
10°	5159.9	5129.9	5169.9	5233.4	5310.5	5380.4	5458.2	5472.5	5477.5	5423.3	5281.2
12.5°	4820.1	4797.3	4837.3	4926.5	5054.3	5162.0	5286.2	5307.6	5351.9	5315.5	5141.3
15°	4516.1	4507.5	4556.0	4643.8	4790.9	4955.7	5134.9	5174.2	5249.1	5237.0	5032.1
17.5°	4253.4	4251.3	4288.4	4380.4	4543.2	4751.6	4984.3	5050.7	5162.0	5176.3	4942.2
20°	4057.8	4053.5	4079.2	4147.0	4314.8	4551.0	4821.6	4912.9	5073.5	5123.5	4849.4
22.5°	3952.9	3952.2	3952.9	3985.0	4122.1	4341.9	4663.1	4774.4	4987.2	5081.4	4746.6
25°	3935.0	3932.9	3917.2	3913.6	3991.4	4167.0	4506.1	4628.8	4905.1	5052.1	4648.8
27.5°	3981.4	3984.3	3963.6	3930.1	3945.8	4052.1	4369.7	4501.1	4839.4	5046.4	4581.0
30°	4077.8	4076.4	4058.5	4023.6	3992.9	4009.3	4272.7	4404.0	4795.1	5071.4	4534.6
32.5°	4184.2	4192.0	4188.4	4169.2	4123.5	4057.8	4243.4	4371.9	4782.3	5131.3	4514.6
35°	4311.9	4320.5	4346.2	4361.2	4307.6	4202.0	4306.2	4417.6	4819.4	5244.1	4546.8
37.5°	4433.3	4455.4	4527.5	4591.0	4545.3	4427.6	4473.2	4552.5	4934.3	5421.8	4633.1
40°	4573.2	4592.4	4710.2	4845.1	4838.0	4715.9	4742.3	4795.1	5137.0	5676.7	4789.4
42.5°	4710.9	4749.5	4920.1	5111.4	5166.3	5058.5	5100.6	5128.5	5422.6	6014.3	5062.1
45°	4894.4	4935.8	5172.7	5403.3	5531.8	5471.1	5538.2	5548.9	5781.6	6474.0	5458.2
47.5°	5172.0	5219.1	5495.4	5737.3	5933.6	5940.0	6050.7	6046.4	6229.8	7000.0	5957.2
50°	5604.6	5672.4	5898.6	6124.9	6363.3	6496.1	6643.8	6623.1	6767.3	7560.3	6531.8
52.5°	6171.3	6202.7	6370.5	6537.5	6833.7	7131.3	7343.3	7324.8	7376.9	8136.3	7184.2
55°	6758.7	6782.3	6851.5	6942.9	7341.2	7826.6	8274.8	8245.5	8113.5	8734.5	7828.7
57.5°	7286.9	7334.8	7382.6	7420.4	7852.3	8553.2	9227.7	9229.8	8912.9	9379.7	8494.7
60°	7369.0	7411.1	7727.3	8025.7	8726.6	9522.5	10247.7	10226.3	9740.2	10079.9	9237.0
62.5°	6513.9	6608.9	7137.0	7930.8	9568.9	11295.5	11548.9	11522.5	10729.5	10942.9	10101.4
65°	4668.1	4775.9	5413.3	6606.0	9160.6	13249.1	13897.2	13541.8	12078.5	12004.3	11113.5
67.5°	2693.1	2718.8	2995.0	3952.9	6975.0	13351.2	17479.7	16982.2	14173.5	13208.4	11608.9
70°	1991.4	1990.7	2056.4	2432.5	3774.4	10896.5	19183.5	19629.6	16379.0	13604.6	10908.6
71°	1800.9	1803.0	1876.5	2214.1	2989.3	9120.6	18821.6	19798.0	16960.0	13409.0	10401.9
72.5°	1540.3	1547.5	1649.5	1985.7	2514.6	6289.8	17262.7	18787.3	17235.6	12926.5	9608.9
75°	1168.5	1184.9	1326.2	1673.8	2298.4	3189.9	12669.5	15002.2	15311.2	11406.1	7139.9
77.5°	833.7	852.2	1012.1	1407.6	2184.9	2404.0	8484.7	10942.9	11267.7	7309.8	3220.6
80°	526.8	548.9	669.5	1119.9	2052.8	2282.7	5331.9	7355.5	6144.2	2339.0	819.4
82.5°	309.1	326.2	415.4	731.6	1676.7	2198.4	3137.0	4077.1	2391.2	706.6	372.6
85°	179.2	187.0	259.1	466.1	1217.7	2074.9	2304.8	2279.1	1037.8	345.5	176.3
87.5°	83.5	92.8	153.5	243.4	675.9	1503.9	1821.6	1573.9	645.3	162.0	82.8
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°	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4
2.5°	5628.1	5616.0	5565.3	5520.3	5473.2	5411.9	5344.0	5335.5	5294.1	5301.9	5287.7
5°	5516.8	5486.1	5364.0	5253.4	5122.8	5005.7	4878.7	4820.1	4735.9	4730.2	4708.8
7.5°	5357.6	5300.5	5111.4	4901.5	4691.7	4491.8	4294.1	4164.2	4031.4	3975.0	3970.0
10°	5178.4	5081.4	4803.0	4492.5	4189.9	3897.9	3615.3	3406.1	3217.7	3128.5	3124.9
12.5°	5008.6	4865.1	4483.2	4060.7	3646.7	3268.4	2880.8	2606.0	2369.7	2290.5	2257.0
15°	4864.4	4662.4	4172.0	3631.7	3129.2	2603.9	2162.7	1873.7	1655.2	1579.6	1565.3
17.5°	4724.5	4464.7	3853.0	3198.4	2591.0	2013.6	1571.7	1356.9	1240.5	1209.9	1209.1
20°	4585.3	4261.2	3519.6	2755.2	2070.7	1506.1	1208.4	1112.1	1072.8	1069.2	1063.5
22.5°	4427.6	4045.7	3169.2	2310.5	1616.0	1184.2	1027.1	988.6	983.6	996.4	996.4
25°	4279.8	3831.6	2813.7	1875.1	1257.0	987.9	917.2	909.4	922.9	945.8	947.9
27.5°	4142.0	3625.3	2466.8	1488.2	1007.1	870.1	840.8	850.1	874.4	900.8	901.5
30°	4028.6	3430.4	2129.9	1172.7	850.8	782.3	777.3	795.9	822.3	843.0	848.0
32.5°	3940.8	3264.1	1804.4	942.9	748.8	716.6	720.9	736.6	753.0	764.5	772.3
35°	3900.1	3121.3	1503.9	795.1	683.8	666.0	671.7	680.2	687.4	695.9	702.4
37.5°	3907.2	3010.7	1235.5	703.1	640.3	631.0	631.0	631.0	631.0	635.3	636.0
40°	3973.6	2947.2	1017.1	644.5	611.0	601.0	593.1	586.0	580.3	583.2	581.7
42.5°	4143.5	2941.5	857.2	607.4	587.4	571.0	555.3	545.3	538.2	541.0	542.5
45°	4431.8	3012.8	749.5	581.0	565.3	540.3	520.3	509.6	504.6	513.9	515.3
47.5°	4805.1	3168.5	683.8	561.7	544.6	511.8	490.4	480.4	481.8	495.4	498.9
50°	5286.2	3421.1	652.4	549.6	530.3	487.5	465.4	456.8	461.1	480.4	484.7
52.5°	5814.4	3785.2	656.0	546.0	521.1	469.7	446.1	436.1	443.3	461.1	464.7
55°	6424.0	4222.7	715.2	551.0	507.5	458.2	430.4	413.3	419.0	435.4	438.3
57.5°	7101.4	4723.8	834.4	549.6	490.4	447.5	414.0	388.3	392.6	402.6	405.4
60°	7806.6	5329.1	1019.3	553.9	482.5	434.7	391.9	359.7	358.3	366.9	368.3
62.5°	8653.1	6029.3	1230.6	556.7	487.5	418.3	362.6	331.2	326.9	329.1	330.5
65°	9525.3	6536.0	1151.3	545.3	503.2	404.7	336.9	303.4	295.5	294.1	294.8
67.5°	9552.5	5992.9	807.3	522.5	509.6	397.6	317.6	279.8	267.0	262.0	261.2
70°	8566.7	4868.7	628.8	498.2	483.9	386.2	299.8	260.5	241.3	233.4	232.7
71°	8085.7	4481.8	596.0	486.1	464.7	374.7	291.9	252.0	232.0	223.4	222.0
72.5°	7331.2	4017.8	556.0	466.8	427.6	345.5	276.9	239.8	219.1	209.1	207.0
75°	5261.2	2627.4	477.5	416.1	354.0	275.5	242.7	215.6	197.7	185.6	184.2
77.5°	2027.1	1045.7	361.2	346.2	271.2	215.6	199.9	186.3	173.4	161.3	160.6
80°	626.7	467.5	263.4	260.5	196.3	160.6	155.6	152.0	147.0	134.2	131.3
82.5°	334.8	268.4	181.3	168.5	128.5	107.1	112.8	114.2	114.9	101.4	99.9
85°	159.9	142.0	102.1	95.6	74.9	60.0	69.2	74.9	75.7	62.1	57.8
87.5°	76.4	74.2	47.8	36.4	27.8	20.0	24.3	30.0	32.8	23.6	20.7
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)