

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: P318513

Luminaire Tested: **GLEON-SA9A-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9A-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30633 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

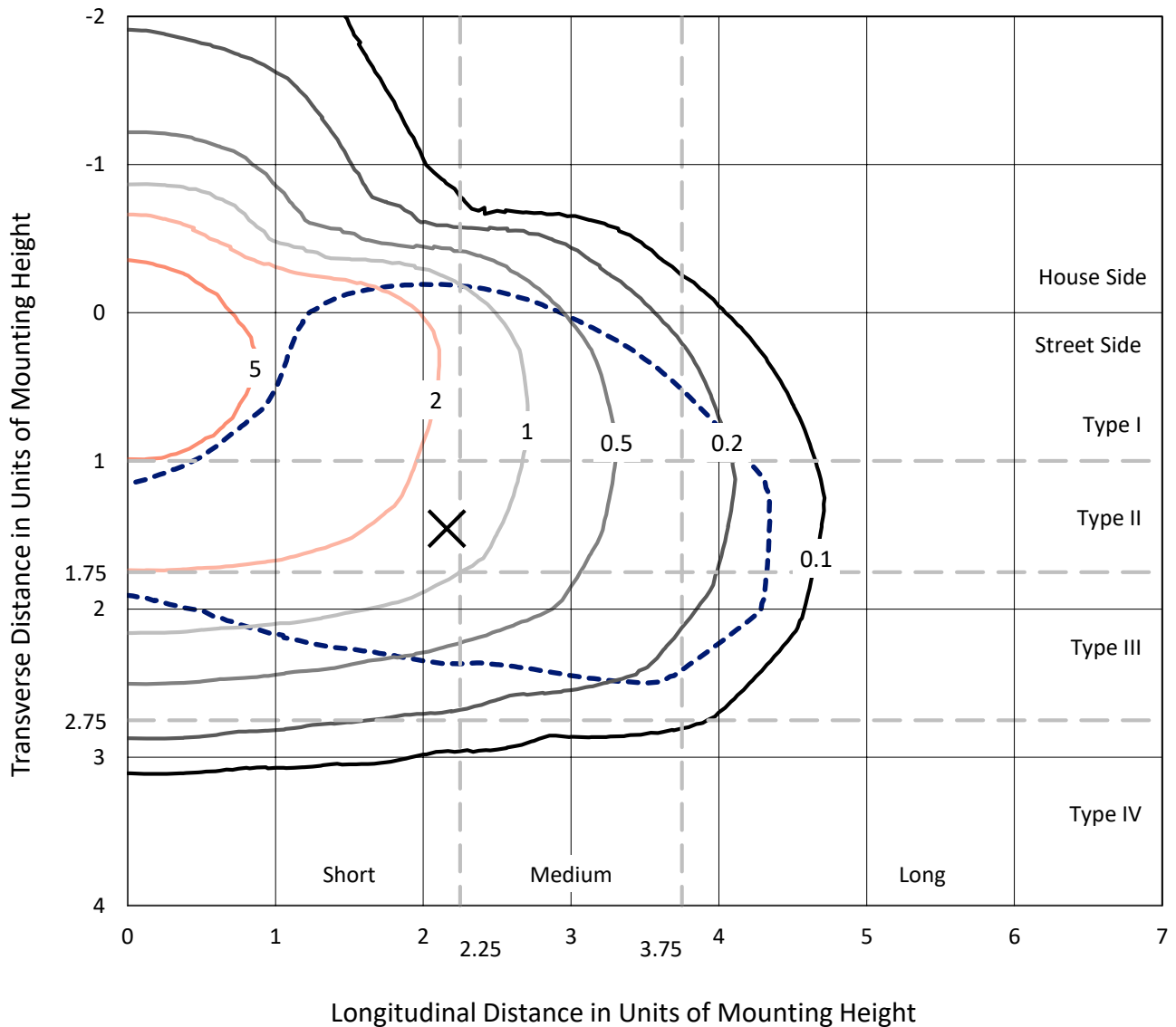
Input Watts (W): 290
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GLEON-SA9A-827-U-T3

Iso-Footcandle Lines of Horizontal Illumination

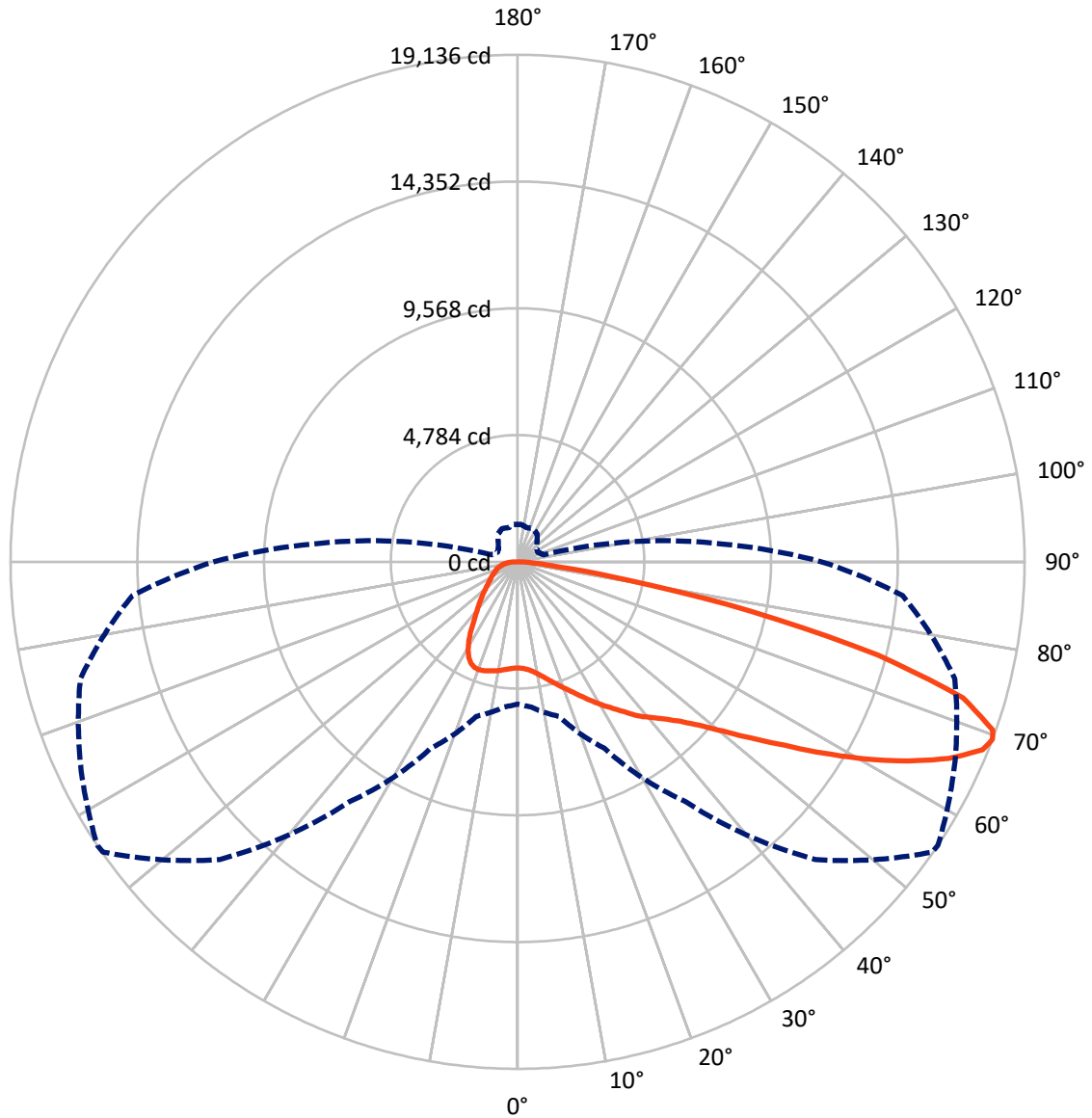
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - N/A

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CATALOG NUMBER: GLEON-SA9A-827-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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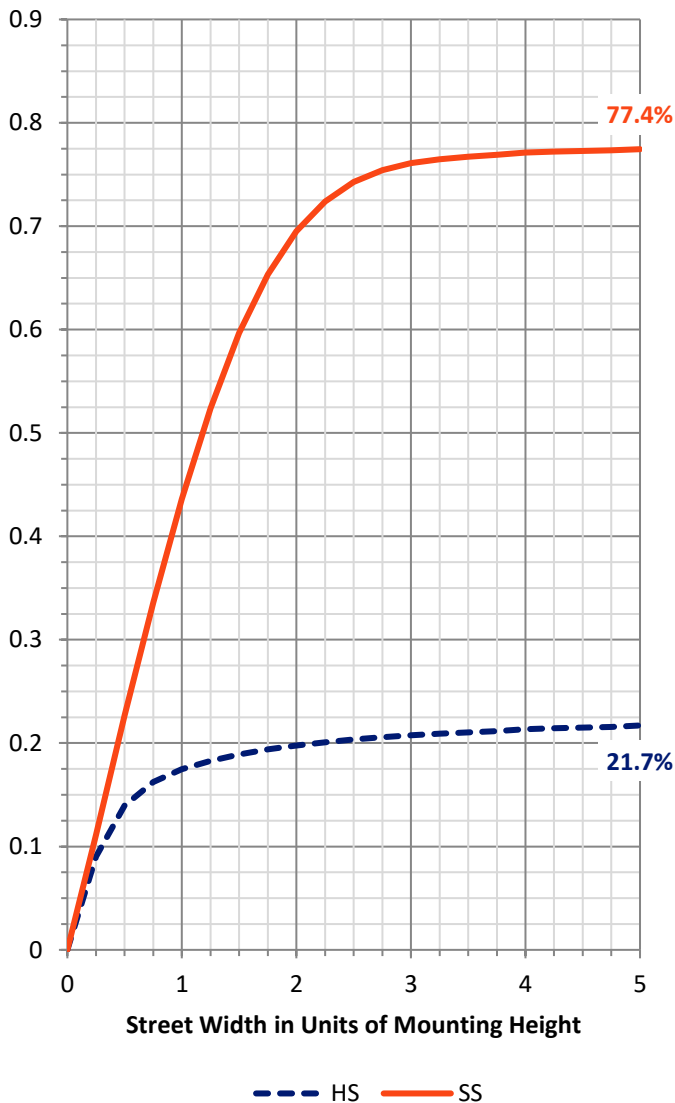
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6821.9	0.0	6821.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	23811.1	0.0	23811.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	30633.0	0.0	30633.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.3	1.3
10°-20°	1264.8	4.1
20°-30°	2207.9	7.2
30°-40°	3171.5	10.4
40°-50°	4389.2	14.3
50°-60°	6430.8	21.0
60°-70°	7840.4	25.6
70°-80°	4334.7	14.2
80°-90°	600.4	2.0
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°	30633.0	100.0
0°-180°	30633.0	100.0

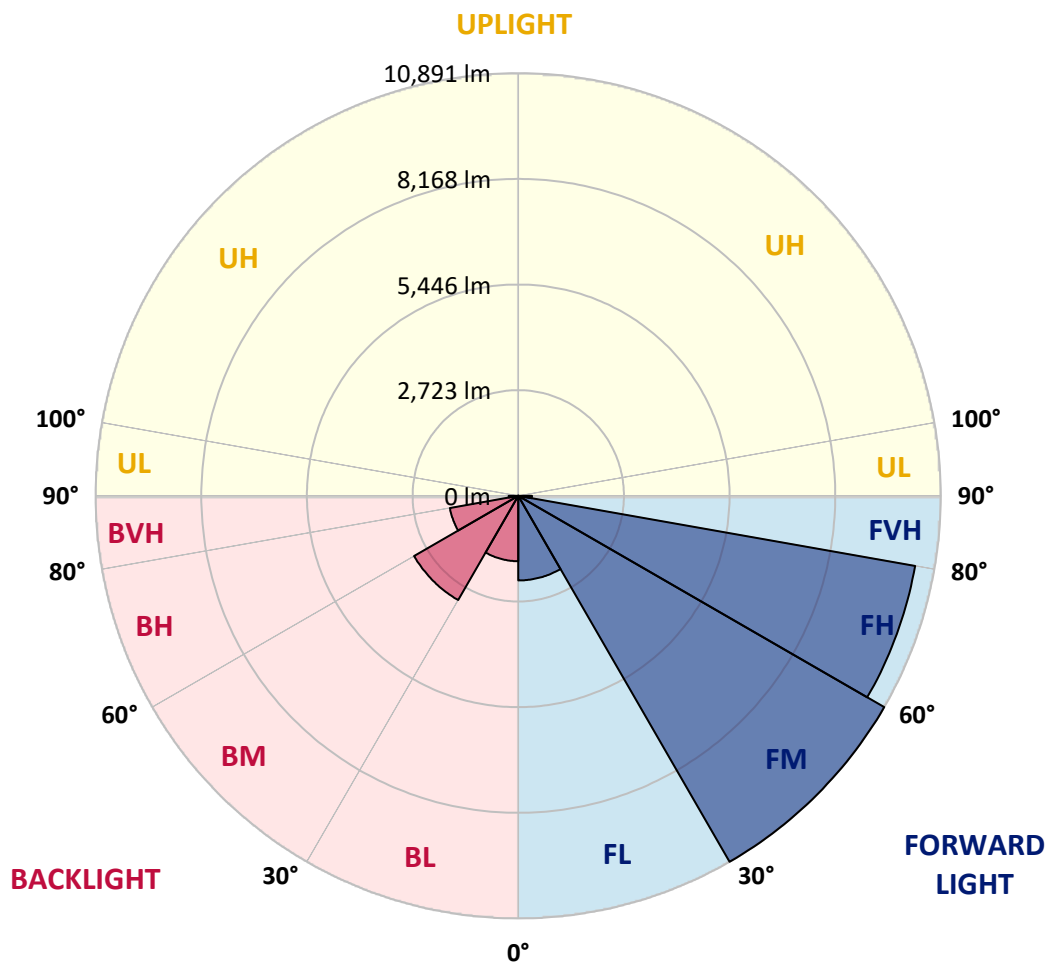


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2180.2	7.1			
FM (30°-60°)	10891.2	35.6			
FH (60°-80°)	10386.1	33.9			G4/12000
FVH (80°-90°)	353.6	1.2			G3/500
BL (0°-30°)	1685.9	5.5	B3/2500		
BM (30°-60°)	3100.4	10.1	B3/5000		
BH (60°-80°)	1788.9	5.8	B3/2500		G3/2500
BVH (80°-90°)	246.7	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4004.8	4004.8	4004.8	4004.8	4004.8	4004.8	4004.8	4004.8	4004.8	4004.8	4004.8
2.5°	4030.1	4034.4	4031.2	4039.6	4030.1	4036.5	4031.2	4031.2	4028.0	4018.5	4008.0
5°	4093.4	4101.9	4096.6	4105.1	4093.4	4095.6	4086.1	4086.1	4076.6	4056.5	4035.4
7.5°	4192.6	4202.1	4197.9	4206.4	4190.5	4190.5	4177.9	4176.8	4157.8	4125.1	4100.8
10°	4310.8	4323.5	4319.3	4331.9	4319.3	4323.5	4310.8	4310.8	4285.5	4239.1	4208.5
12.5°	4482.8	4498.7	4487.1	4486.0	4480.7	4489.2	4478.6	4476.5	4453.3	4390.0	4347.8
15°	4712.9	4729.8	4705.5	4703.4	4673.9	4670.7	4670.7	4667.5	4652.7	4576.8	4507.1
17.5°	4977.8	4983.1	4961.9	4928.2	4890.2	4865.9	4862.7	4871.2	4871.2	4782.5	4671.7
20°	5237.4	5246.9	5230.0	5192.0	5143.5	5107.6	5082.2	5099.1	5098.1	4992.5	4835.3
22.5°	5520.2	5542.4	5517.0	5468.5	5411.5	5371.4	5327.1	5341.8	5342.9	5213.1	4995.7
25°	5886.4	5866.3	5850.5	5781.9	5700.6	5659.5	5618.3	5633.1	5628.9	5450.5	5161.4
27.5°	6210.3	6214.6	6193.5	6120.6	6026.7	5936.0	5933.9	5943.4	5927.5	5697.5	5317.6
30°	6587.1	6589.2	6559.6	6494.2	6391.9	6274.7	6247.3	6263.1	6229.3	5931.8	5482.2
32.5°	6961.7	6972.3	6939.5	6860.4	6778.1	6635.6	6580.8	6591.3	6506.9	6171.3	5652.1
35°	7289.9	7304.7	7294.1	7241.4	7151.7	7029.2	6963.8	6957.5	6853.0	6464.7	5876.9
37.5°	7624.4	7638.1	7626.5	7582.2	7546.3	7416.5	7381.7	7381.7	7200.2	6764.4	6162.9
40°	7968.5	7989.6	7975.8	7914.6	7884.0	7824.9	7741.6	7721.5	7525.2	7124.2	6629.3
42.5°	8288.2	8315.6	8370.5	8334.6	8272.4	8280.8	8113.0	8102.5	7959.0	7656.1	7215.0
45°	8742.0	8782.1	8874.9	8847.5	8834.8	8788.4	8589.0	8579.5	8524.6	8371.6	7942.1
47.5°	9236.9	9291.8	9459.6	9464.8	9601.0	9513.4	9242.2	9209.5	9222.1	9228.5	8829.6
50°	9692.8	9752.9	10028.4	10158.2	10479.0	10498.0	10064.2	10034.7	10084.3	10229.9	9863.7
52.5°	10056.9	10132.8	10476.9	10877.9	11427.7	11583.9	11076.3	11054.1	11091.0	11342.2	11033.0
55°	10323.8	10406.2	10780.8	11511.0	12389.0	12664.5	12241.3	12220.2	12243.4	12563.2	12304.6
57.5°	10386.1	10406.2	10949.6	11937.4	13200.6	13862.2	13667.0	13624.8	13510.8	13789.4	13708.1
60°	10093.8	10174.0	10810.3	12087.2	13828.4	15043.1	15157.0	15104.3	14784.5	15012.5	14947.0
62.5°	9500.7	9644.2	10290.1	11859.3	14074.3	16007.6	16618.6	16555.3	16004.4	16152.2	15837.7
65°	8532.0	8593.2	9271.7	11073.1	13762.0	16624.9	17921.9	17890.2	17196.9	16965.8	16002.3
67.5°	6799.2	6914.2	7490.4	9430.0	12484.0	16552.1	18929.7	18926.5	17975.7	17267.6	15418.8
69°	5371.4	5490.6	6039.4	7767.9	11046.7	15886.2	19098.5	19135.5	18195.2	17084.0	14585.1
70°	4282.3	4420.6	4797.3	6542.8	9770.9	15008.3	18958.2	19024.7	18153.0	16781.1	13815.8
72.5°	1822.5	1934.3	2202.4	3372.7	5955.0	11207.1	17334.1	17585.3	17174.8	15358.6	11418.2
75°	795.7	830.5	951.9	1375.0	2643.5	6099.5	13579.4	14043.7	14685.3	12982.1	8505.6
77.5°	582.5	597.3	663.8	807.3	1186.1	2303.7	8732.5	9002.6	10590.8	9446.9	5217.3
80°	450.6	461.2	512.9	593.1	774.6	931.8	3982.6	4214.8	5955.0	4852.2	2172.8
82.5°	358.8	366.2	402.1	436.9	535.0	564.6	1322.3	1466.8	2198.2	1340.2	575.1
85°	333.5	341.9	354.6	318.7	343.0	331.4	572.0	598.3	663.8	526.6	240.6
87.5°	150.9	178.3	351.4	248.0	182.6	145.6	234.3	244.8	275.4	276.5	106.6
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°	4004.8	4004.8	4004.8	4004.8	4004.8	4004.8	4004.8	4004.8	4004.8	4004.8	4004.8
2.5°	4014.3	4011.1	4016.4	4003.7	4019.6	4018.5	4013.2	4015.4	4025.9	4024.9	4025.9
5°	4038.6	4036.5	4042.8	4033.3	4052.3	4058.6	4059.7	4069.2	4080.8	4083.9	4083.9
7.5°	4099.8	4099.8	4102.9	4090.3	4102.9	4101.9	4096.6	4106.1	4117.7	4118.8	4117.7
10°	4205.3	4206.4	4201.1	4168.4	4157.8	4129.3	4102.9	4104.0	4118.8	4130.4	4133.5
12.5°	4338.3	4334.1	4310.8	4250.7	4206.4	4148.3	4120.9	4119.8	4134.6	4144.1	4147.3
15°	4490.2	4478.6	4418.5	4320.3	4242.2	4185.3	4140.9	4130.4	4121.9	4111.4	4112.4
17.5°	4633.8	4607.4	4507.1	4371.0	4288.7	4212.7	4127.2	4058.6	4011.1	3983.7	3975.3
20°	4779.4	4727.7	4583.1	4418.5	4314.0	4175.8	4011.1	3871.8	3785.3	3745.2	3737.8
22.5°	4912.3	4829.0	4653.8	4468.1	4294.0	4051.2	3792.7	3590.1	3469.8	3416.0	3420.2
25°	5042.1	4926.1	4727.7	4502.9	4192.6	3831.7	3488.8	3239.7	3100.4	3040.3	3038.2
27.5°	5156.1	5024.2	4807.9	4474.4	4003.7	3519.4	3128.9	2886.2	2770.1	2718.4	2710.0
30°	5287.0	5147.7	4914.5	4365.7	3727.3	3158.5	2777.5	2606.6	2524.2	2472.5	2463.0
32.5°	5446.3	5315.5	5002.0	4168.4	3373.7	2781.7	2503.1	2383.9	2309.0	2250.9	2240.4
35°	5678.5	5537.1	5024.2	3885.6	2985.4	2484.1	2301.6	2179.2	2077.9	2002.9	1995.5
37.5°	5969.7	5814.6	4973.6	3519.4	2608.7	2291.0	2133.8	1982.9	1851.0	1745.4	1728.6
40°	6389.7	6155.5	4833.2	3097.3	2331.1	2142.2	1970.2	1798.2	1634.6	1511.2	1486.9
42.5°	6894.2	6555.4	4617.9	2677.3	2127.5	1991.3	1807.7	1594.5	1438.4	1350.8	1338.1
45°	7535.8	6971.2	4319.3	2310.0	1926.9	1840.4	1632.5	1436.2	1339.2	1274.8	1264.2
47.5°	8268.2	7437.6	4005.9	2011.4	1757.0	1699.0	1492.2	1365.5	1288.5	1237.8	1228.4
50°	9168.3	7964.2	3673.4	1766.5	1586.1	1529.1	1425.7	1326.5	1265.3	1226.2	1216.7
52.5°	10183.5	8558.4	3433.9	1573.4	1444.7	1403.5	1390.9	1305.4	1255.8	1226.2	1216.7
55°	11276.8	9163.0	3175.4	1410.9	1322.3	1333.9	1367.6	1307.5	1273.7	1237.8	1224.1
57.5°	12371.1	9787.8	2887.3	1273.7	1225.2	1282.2	1351.8	1311.7	1283.2	1248.4	1235.7
60°	13236.4	10183.5	2440.9	1158.7	1148.1	1225.2	1313.8	1280.1	1243.1	1244.2	1242.1
62.5°	13640.6	10162.4	1948.1	1056.3	1071.1	1148.1	1252.6	1230.5	1199.9	1241.0	1244.2
65°	13413.7	9655.9	1516.4	963.5	988.8	1067.9	1189.3	1206.2	1216.7	1295.9	1306.4
67.5°	12461.9	8670.2	1174.5	882.2	913.9	1013.1	1195.6	1313.8	1327.5	1410.9	1409.9
69°	11477.3	7745.8	1020.5	840.0	876.9	1026.8	1277.9	1382.4	1330.7	1419.4	1406.7
70°	10652.0	7014.5	938.1	811.5	860.1	1051.1	1332.8	1381.4	1314.9	1390.9	1369.8
72.5°	8203.8	5046.4	795.7	758.7	803.1	1005.7	1348.7	1350.8	1277.9	1292.7	1256.8
75°	5626.8	3189.1	694.4	687.0	716.5	906.5	1298.0	1290.6	1181.9	1160.8	1131.3
77.5°	3102.5	1619.9	589.9	618.4	638.4	803.1	1179.8	1169.3	1079.6	1035.2	1024.7
80°	1196.7	709.2	498.1	549.8	562.5	695.4	1034.2	1024.7	949.8	892.8	876.9
82.5°	451.7	371.5	411.6	475.9	471.7	574.1	875.9	870.6	797.8	714.4	689.1
85°	208.9	222.7	326.1	392.6	362.0	425.3	700.7	710.2	621.6	522.4	522.4
87.5°	88.6	124.5	231.1	296.5	243.8	287.0	513.9	490.7	450.6	312.4	293.4
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)