

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: P317880

Luminaire Tested: **GLEON-SA6B-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317880
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6B-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25689 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

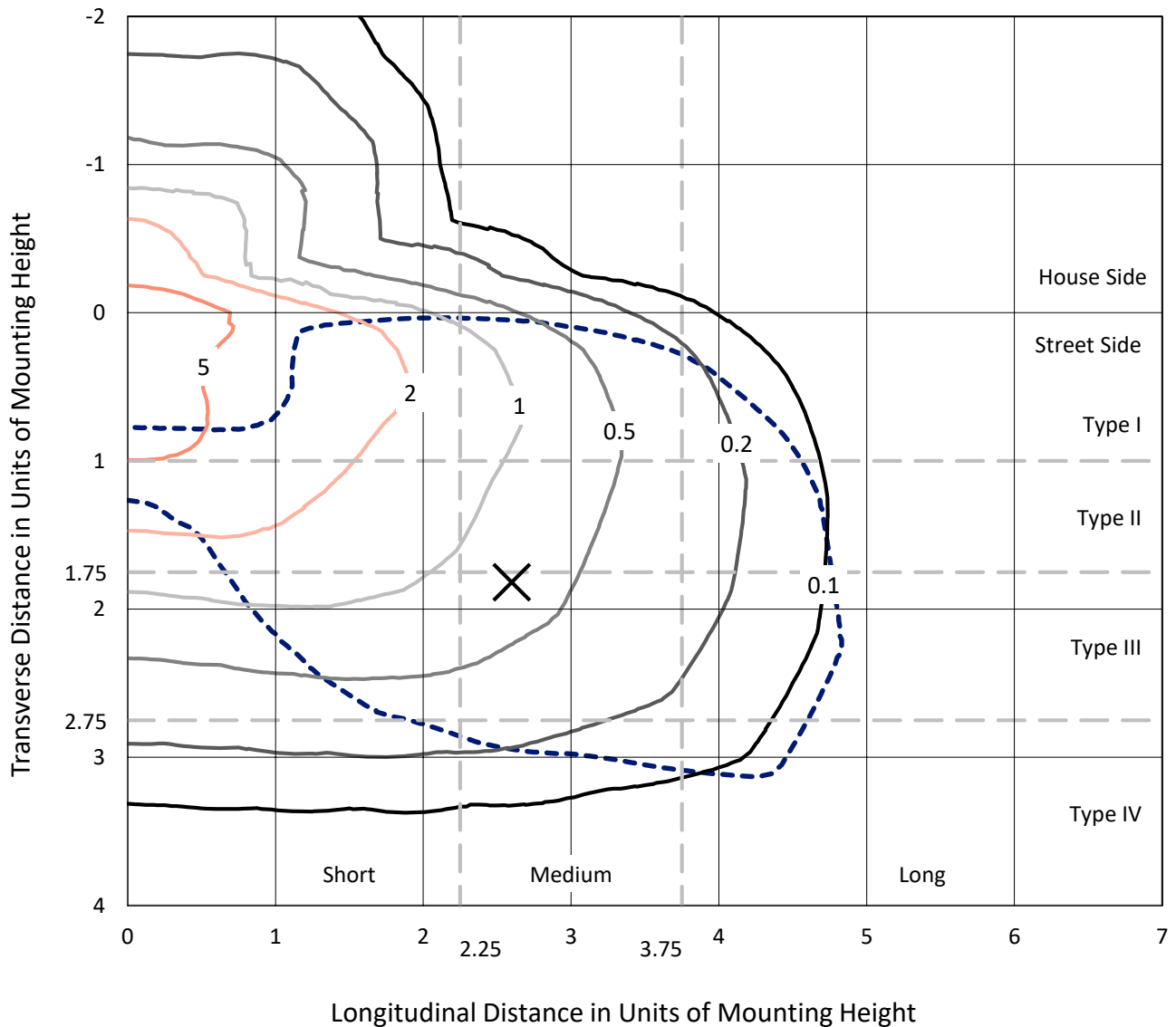
Input Watts (W): 249
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317880
 CATALOG NUMBER: GLEON-SA6B-827-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

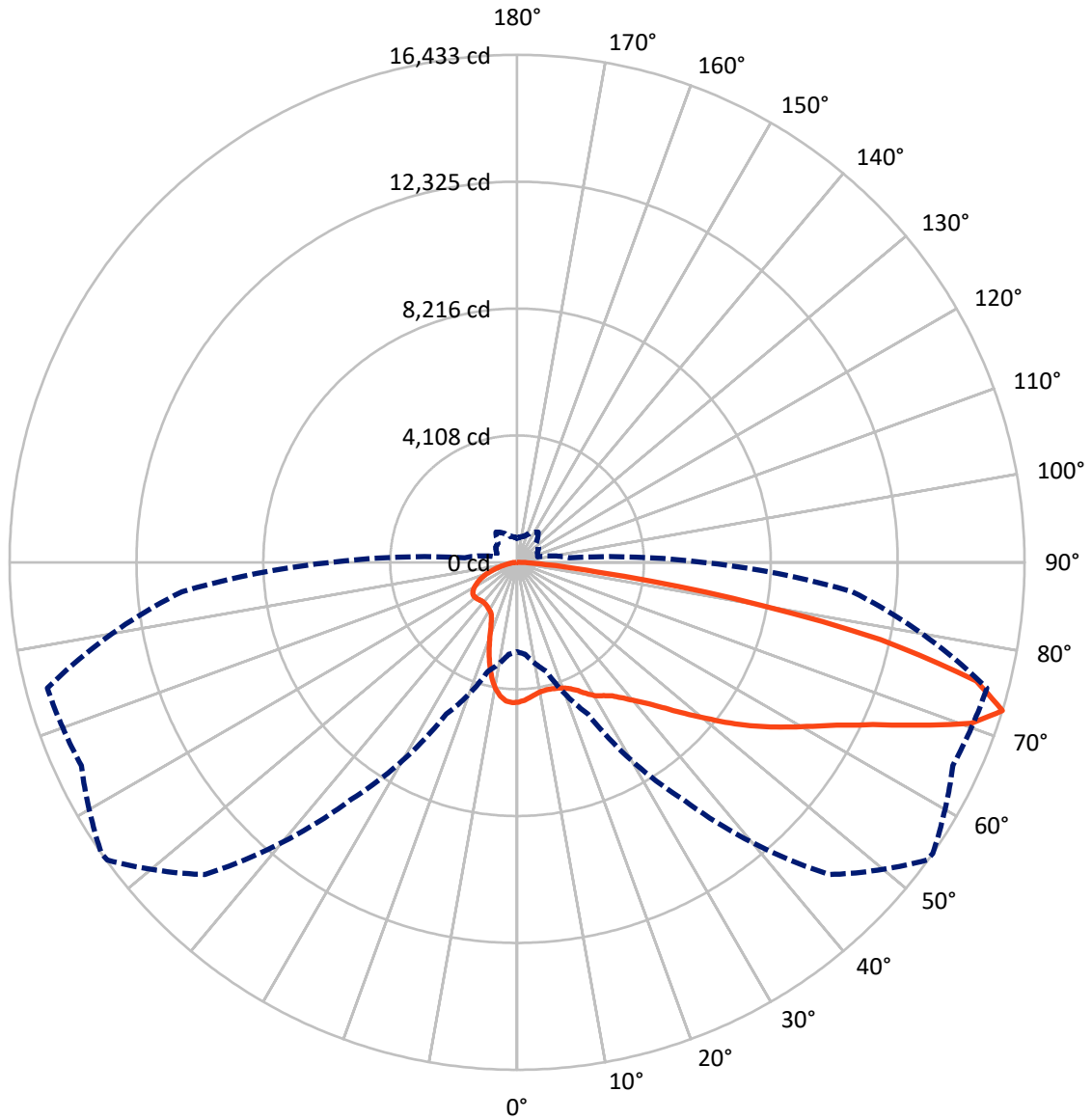
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Medium - N/A

REPORT NUMBER: P317880
CATALOG NUMBER: GLEON-SA6B-827-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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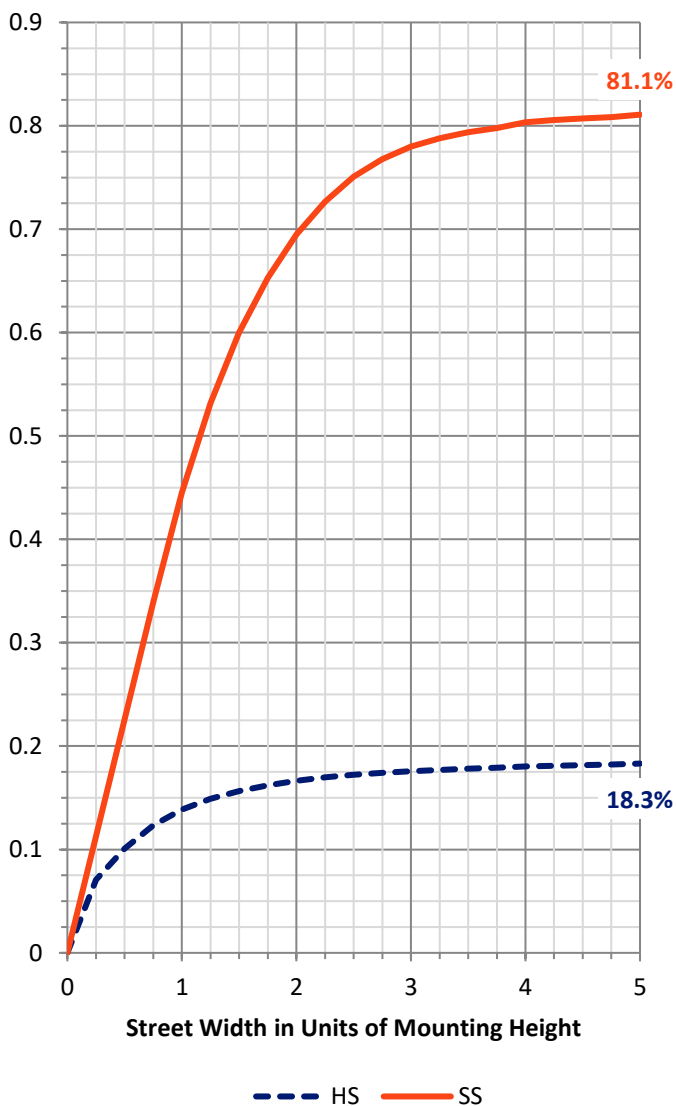
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4774.7	0.0	4774.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	20914.2	0.0	20914.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	25689.0	0.0	25689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.0	1.6
10°-20°	1091.6	4.2
20°-30°	1799.7	7.0
30°-40°	2662.3	10.4
40°-50°	3715.9	14.5
50°-60°	4838.3	18.8
60°-70°	5946.1	23.1
70°-80°	4661.0	18.1
80°-90°	564.1	2.2
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°	25689.0	100.0
0°-180°	25689.0	100.0

Coefficient of Utilization



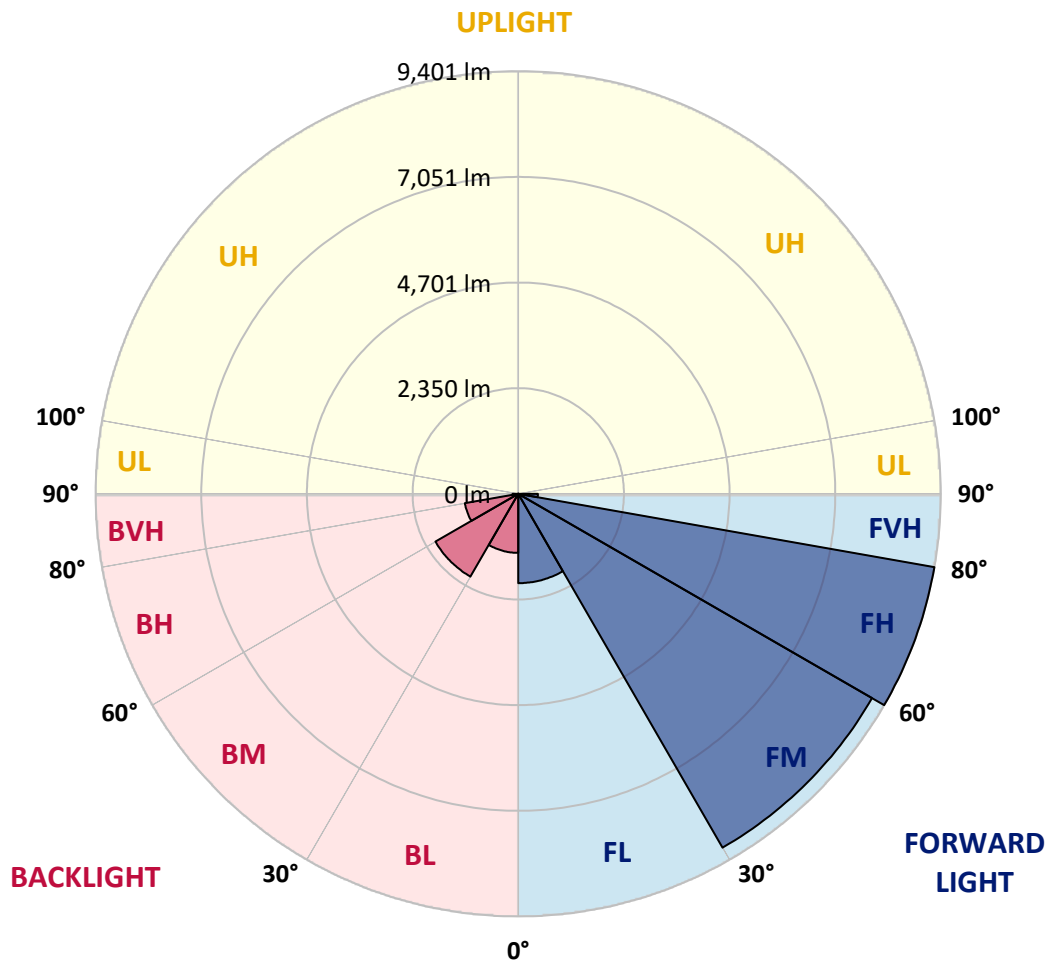
REPORT NUMBER: P317880
 CATALOG NUMBER: GLEON-SA6B-827-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1987.6	7.7			
FM (30°-60°)	9089.3	35.4			
FH (60°-80°)	9401.3	36.6			G4/12000
FVH (80°-90°)	436.1	1.7			G3/500
BL (0°-30°)	1313.7	5.1	B3/2500		
BM (30°-60°)	2127.2	8.3	B2/2500		
BH (60°-80°)	1205.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	128.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





REPORT NUMBER: P317880

CATALOG NUMBER: GLEON-SA6B-827-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4531.0	4531.0	4531.0	4531.0	4531.0	4531.0	4531.0	4531.0	4531.0	4531.0	4531.0
2.5°	4383.5	4373.1	4386.1	4404.3	4424.3	4451.2	4466.8	4473.7	4500.6	4511.0	4533.6
5°	4180.4	4175.2	4196.9	4228.2	4272.4	4334.9	4385.2	4394.8	4465.9	4516.2	4562.2
7.5°	4032.9	4032.9	4058.1	4095.4	4144.9	4229.0	4300.2	4313.2	4433.8	4542.3	4627.3
10°	3915.8	3920.1	3949.6	3993.9	4052.0	4141.4	4236.0	4250.7	4425.1	4603.0	4738.4
12.5°	3837.7	3848.1	3875.0	3914.9	3987.0	4095.4	4215.2	4235.1	4443.4	4689.8	4872.0
15°	3887.2	3904.5	3907.1	3923.6	3963.5	4081.5	4227.3	4248.1	4482.4	4778.3	5023.8
17.5°	4104.1	4110.2	4083.3	4048.6	4029.5	4105.0	4263.7	4285.4	4529.3	4865.9	5169.6
20°	4433.8	4430.3	4372.2	4278.5	4181.3	4193.5	4323.6	4346.2	4592.6	4943.1	5315.4
22.5°	4850.3	4838.1	4748.8	4576.1	4410.4	4341.0	4428.6	4447.7	4688.0	5053.3	5471.5
25°	5355.3	5328.4	5210.4	4978.7	4734.9	4556.1	4586.5	4604.7	4826.9	5176.5	5614.7
27.5°	5888.0	5861.1	5711.0	5430.8	5106.3	4827.7	4804.3	4819.9	4984.8	5267.6	5720.6
30°	6445.1	6416.4	6279.3	5965.2	5500.2	5108.9	5007.3	5013.4	5095.8	5317.1	5807.3
32.5°	7004.7	6977.8	6824.2	6459.8	5927.9	5410.8	5154.0	5146.2	5162.7	5368.3	5905.4
35°	7572.2	7582.6	7403.0	6999.5	6401.7	5746.6	5327.5	5311.0	5274.6	5473.3	6044.2
37.5°	8179.6	8172.6	7940.1	7518.4	6897.1	6111.0	5576.5	5573.9	5448.1	5672.0	6262.0
40°	8585.6	8590.0	8448.5	8049.4	7397.8	6514.5	5895.8	5889.8	5724.9	5969.6	6547.5
42.5°	8744.4	8773.0	8809.5	8556.1	7921.9	6982.2	6276.7	6268.1	6111.0	6396.5	6883.2
45°	8755.7	8813.0	9038.5	9006.4	8452.9	7517.5	6763.5	6739.2	6626.4	6963.9	7284.1
47.5°	8658.5	8717.5	9092.3	9274.6	8927.5	8082.4	7332.7	7313.6	7216.4	7673.7	7717.9
50°	8445.9	8502.3	8981.3	9405.6	9317.9	8625.5	7988.7	7938.3	7886.3	8493.6	8214.3
52.5°	8047.7	8156.1	8832.9	9436.8	9551.3	9108.0	8678.5	8645.5	8674.1	9358.7	8711.4
55°	7104.5	7226.0	8450.3	9410.8	9724.0	9513.2	9368.3	9366.5	9514.9	10266.3	9245.1
57.5°	6576.1	6662.0	7671.1	9366.5	9928.8	9915.8	10051.1	10067.6	10356.5	11254.6	9803.8
60°	6277.6	6367.8	7276.3	9202.5	10246.3	10436.4	10747.9	10780.8	11212.1	12348.7	10476.3
62.5°	6006.0	6104.9	7031.6	8868.5	10620.3	11180.8	11582.6	11612.1	12117.9	13473.2	11126.2
65°	5541.8	5653.8	6673.3	8649.0	10960.4	12151.8	12643.7	12663.7	13158.3	14651.5	11623.3
67.5°	4885.9	4988.3	5997.4	8163.9	11212.1	13330.9	14054.6	14065.8	14189.9	15483.6	11877.6
70°	4119.7	4158.8	5034.2	7162.6	10914.5	14433.7	15600.8	15603.4	15130.5	16016.4	11835.9
72.5°	2894.6	2986.5	3654.6	5422.1	9379.5	14299.2	16403.4	16432.9	15567.8	15747.4	10890.2
75°	1775.3	1872.4	2292.4	3285.9	5950.5	11245.9	15155.6	15360.4	14747.8	14040.7	8896.2
77.5°	1187.0	1223.4	1495.9	1915.8	2695.9	6470.2	11652.0	12037.2	12251.5	10239.4	5689.3
80°	662.0	731.4	991.7	1190.4	1199.1	2570.9	6986.5	7076.7	6816.4	4077.2	1755.3
82.5°	350.5	388.7	662.0	699.3	654.2	860.7	2603.9	2606.5	2177.9	1093.3	521.5
85°	271.6	303.7	453.8	426.9	334.1	381.8	859.0	905.9	741.0	447.7	170.1
87.5°	135.4	168.3	308.0	270.7	131.0	109.3	307.2	328.0	292.4	175.3	61.6
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°	4531.0	4531.0	4531.0	4531.0	4531.0	4531.0	4531.0	4531.0	4531.0	4531.0	4531.0
2.5°	4542.3	4550.1	4559.6	4549.2	4545.7	4531.9	4508.4	4503.2	4491.1	4491.9	4498.9
5°	4582.2	4595.2	4590.0	4550.1	4502.4	4435.5	4366.1	4307.1	4268.1	4265.5	4262.9
7.5°	4658.5	4667.2	4626.4	4512.8	4379.1	4224.7	4078.9	3951.4	3874.2	3855.1	3850.7
10°	4778.3	4776.5	4664.6	4435.5	4169.2	3893.2	3659.0	3482.0	3378.7	3348.3	3340.5
12.5°	4911.9	4891.9	4677.6	4295.0	3872.4	3489.8	3193.0	2996.1	2888.5	2853.8	2845.1
15°	5049.9	5000.4	4645.5	4085.0	3508.0	3055.1	2743.6	2561.4	2503.2	2484.1	2480.7
17.5°	5178.3	5082.8	4553.5	3800.4	3092.4	2622.1	2379.2	2306.3	2320.2	2345.3	2346.2
20°	5304.1	5138.4	4406.0	3441.2	2654.2	2265.5	2183.1	2236.9	2302.8	2354.0	2360.9
22.5°	5428.2	5177.4	4216.0	3026.4	2262.0	2065.1	2123.2	2221.2	2296.7	2352.3	2361.8
25°	5532.3	5186.9	3954.0	2583.9	1989.6	1989.6	2094.6	2187.4	2262.0	2316.7	2326.2
27.5°	5570.5	5122.7	3584.4	2174.4	1852.5	1954.9	2054.6	2131.9	2195.2	2253.3	2263.8
30°	5585.2	5003.9	3157.5	1845.5	1796.1	1917.6	2000.9	2066.8	2126.7	2181.3	2190.9
32.5°	5587.8	4860.7	2704.5	1659.0	1757.0	1878.5	1934.0	1992.2	2056.4	2078.1	2081.5
35°	5604.3	4691.5	2227.3	1563.5	1720.6	1842.1	1886.3	1928.0	1823.8	1831.7	1838.6
37.5°	5652.0	4524.0	1828.2	1509.8	1697.2	1823.0	1875.9	1724.9	1643.4	1624.3	1621.7
40°	5741.4	4345.3	1532.3	1466.4	1688.5	1832.5	1809.1	1610.4	1469.8	1364.8	1349.2
42.5°	5865.5	4152.7	1343.2	1437.7	1694.6	1878.5	1716.3	1500.2	1266.8	1199.1	1190.4
45°	6005.2	3950.5	1240.8	1417.8	1715.4	1914.1	1697.2	1353.6	1172.2	1121.0	1116.7
47.5°	6140.5	3703.2	1187.8	1409.1	1744.0	1885.5	1616.5	1308.5	1127.1	1100.2	1102.8
50°	6295.8	3480.2	1155.7	1399.6	1769.2	1867.2	1525.4	1285.0	1109.8	1142.7	1177.4
52.5°	6426.9	3249.4	1127.1	1380.5	1778.7	1835.1	1501.9	1289.4	1109.8	1173.1	1206.1
55°	6582.2	3075.0	1094.1	1340.6	1760.5	1744.0	1485.5	1315.4	1122.8	1082.9	1086.3
57.5°	6782.6	3017.8	1057.7	1278.1	1699.8	1611.3	1477.6	1340.6	1115.0	1089.8	1098.5
60°	7060.3	3078.5	1042.9	1196.5	1605.2	1507.1	1478.5	1327.5	1060.3	1016.9	1017.8
62.5°	7324.9	3146.2	1042.1	1145.3	1488.9	1414.3	1458.6	1285.0	1032.5	1007.4	1016.9
65°	7411.7	3077.6	1000.4	1088.1	1357.9	1303.2	1422.1	1239.9	1011.7	973.5	971.8
67.5°	7295.4	2865.1	916.3	995.2	1207.8	1174.0	1374.4	1186.1	978.7	947.5	942.3
70°	6950.1	2390.4	812.1	872.9	1036.9	1028.2	1298.9	1123.6	934.5	907.6	885.0
72.5°	6020.8	1703.2	684.6	726.2	844.2	872.0	1194.8	1042.1	872.0	813.9	779.2
75°	4944.9	1260.7	562.3	570.9	641.2	716.7	1051.6	946.6	798.3	699.3	672.4
77.5°	3028.2	771.4	447.7	451.2	459.9	571.8	865.9	839.9	704.6	583.1	564.0
80°	980.5	420.8	323.6	340.1	314.1	419.1	669.8	715.0	604.8	487.6	466.8
82.5°	373.1	245.6	218.7	229.9	217.8	281.1	488.5	572.7	495.4	400.9	326.2
85°	180.5	138.8	129.3	144.9	134.5	144.0	312.4	421.7	375.7	261.2	242.9
87.5°	64.2	61.6	49.5	66.8	57.3	51.2	95.4	212.6	248.2	179.6	160.5
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)