

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: P318530

Luminaire Tested: **GLEON-SA6C-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318530
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-SA6C-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31105 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

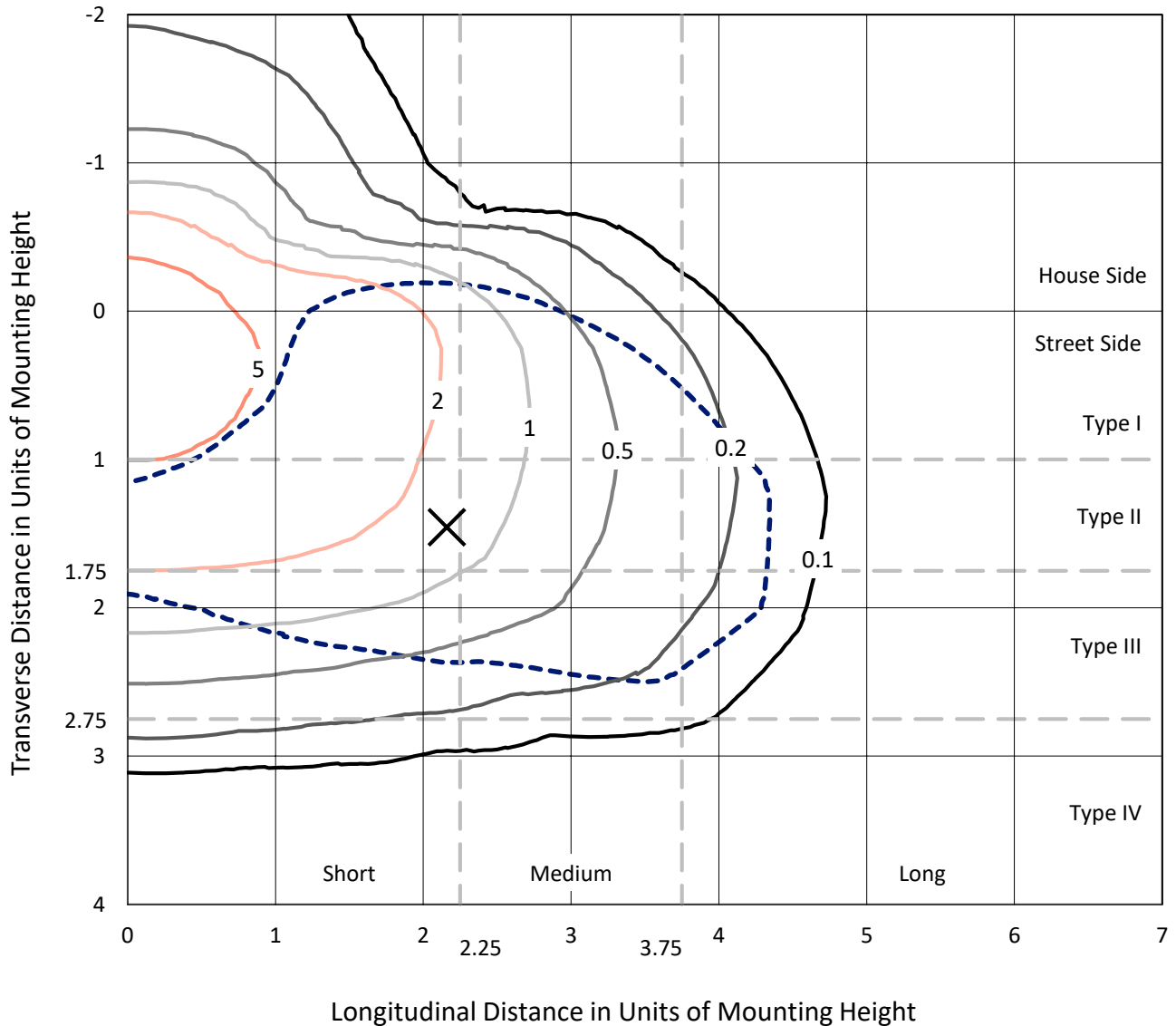
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

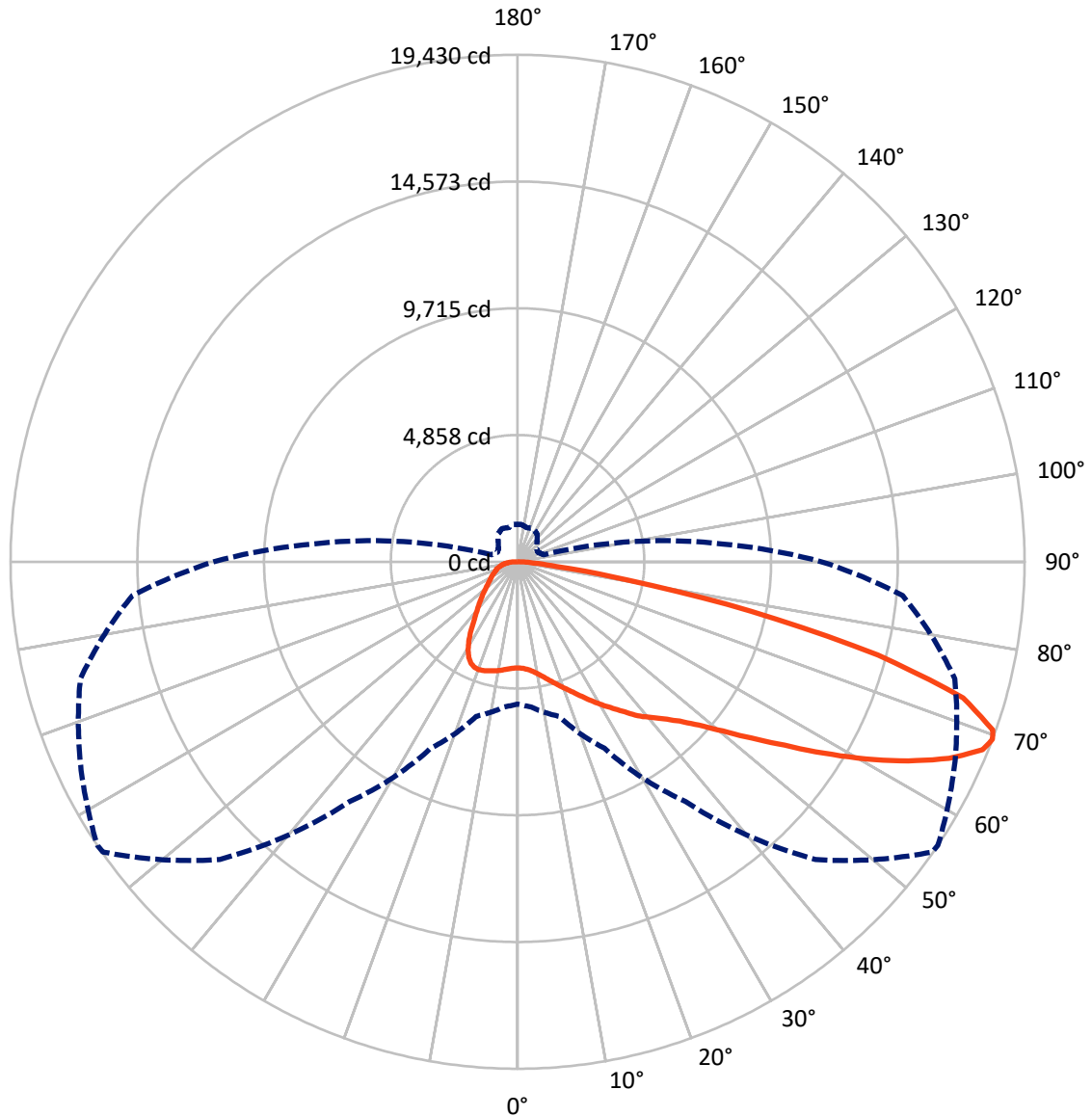
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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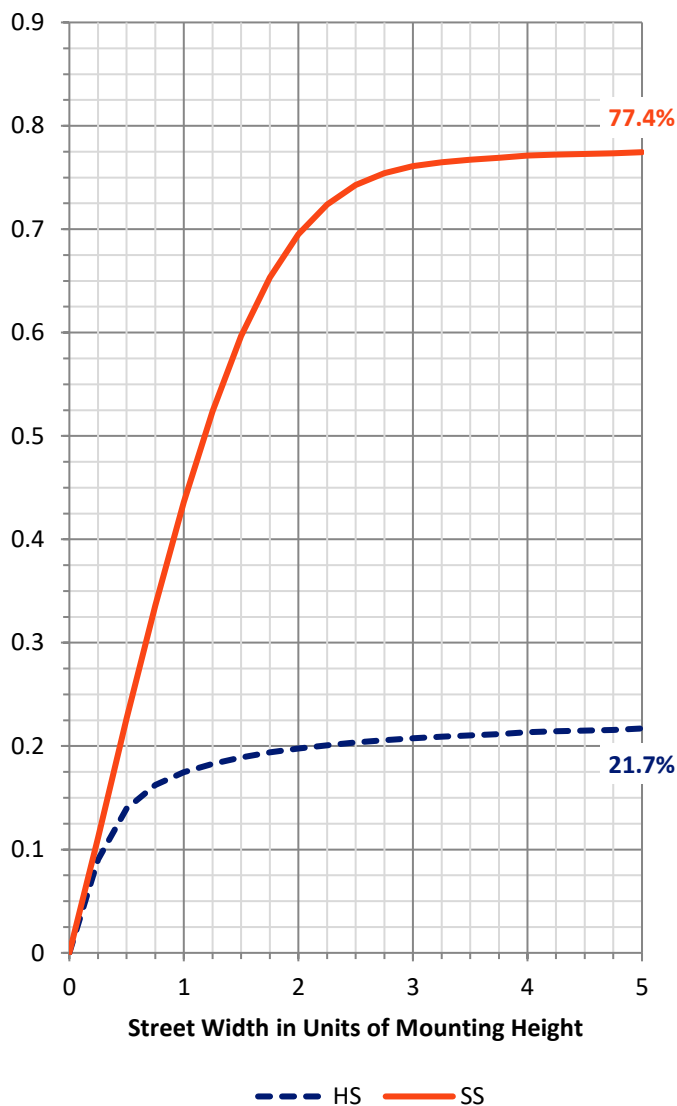
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6927.0	0.0	6927.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	24178.0	0.0	24178.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	31105.0	0.0	31105.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.4	1.3
10°-20°	1284.3	4.1
20°-30°	2241.9	7.2
30°-40°	3220.4	10.4
40°-50°	4456.9	14.3
50°-60°	6529.9	21.0
60°-70°	7961.2	25.6
70°-80°	4401.5	14.2
80°-90°	609.6	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°	31105.0	100.0
0°-180°	31105.0	100.0

Coefficient of Utilization



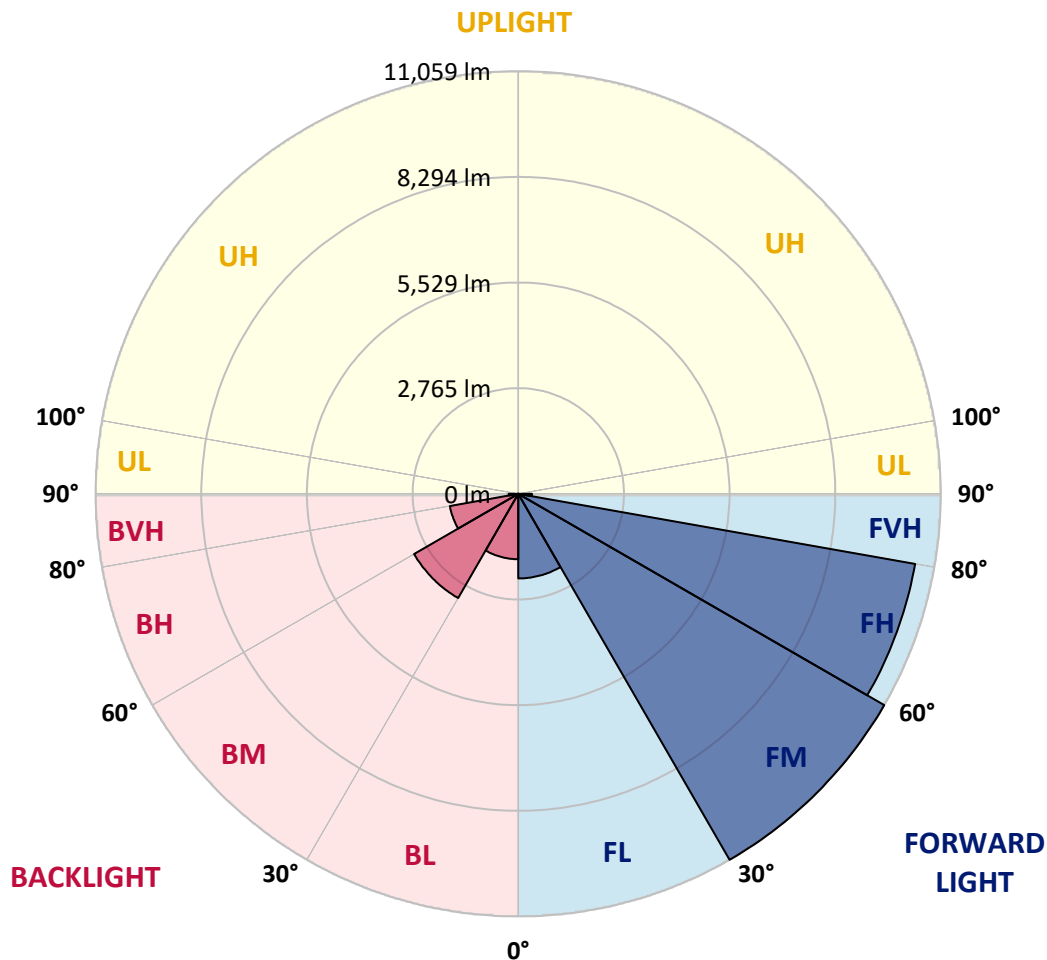
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2213.8	7.1			
FM (30°-60°)	11059.0	35.6			
FH (60°-80°)	10546.2	33.9			G4/12000
FVH (80°-90°)	359.1	1.2			G3/500
BL (0°-30°)	1711.8	5.5	B3/2500		
BM (30°-60°)	3148.2	10.1	B3/5000		
BH (60°-80°)	1816.5	5.8	B3/2500		G3/2500
BVH (80°-90°)	250.5	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°	4066.5	4066.5	4066.5	4066.5	4066.5	4066.5	4066.5	4066.5	4066.5	4066.5	4066.5
2.5°	4092.2	4096.5	4093.3	4101.9	4092.2	4098.7	4093.3	4093.3	4090.1	4080.4	4069.7
5°	4156.5	4165.1	4159.7	4168.3	4156.5	4158.7	4149.0	4149.0	4139.4	4119.0	4097.6
7.5°	4257.2	4266.9	4262.6	4271.2	4255.1	4255.1	4242.2	4241.2	4221.9	4188.7	4164.0
10°	4377.3	4390.1	4385.8	4398.7	4385.8	4390.1	4377.3	4377.3	4351.5	4304.4	4273.3
12.5°	4551.9	4568.0	4556.2	4555.1	4549.8	4558.3	4547.6	4545.5	4521.9	4457.6	4414.8
15°	4785.5	4802.7	4778.0	4775.9	4745.9	4742.7	4742.7	4739.4	4724.4	4647.3	4576.6
17.5°	5054.5	5059.8	5038.4	5004.1	4965.5	4940.9	4937.7	4946.2	4946.2	4856.2	4743.7
20°	5318.1	5327.7	5310.6	5272.0	5222.7	5186.3	5160.6	5177.7	5176.6	5069.5	4909.8
22.5°	5605.2	5627.8	5602.0	5552.7	5494.9	5454.2	5409.2	5424.2	5425.2	5293.4	5072.7
25°	5977.1	5956.7	5940.6	5871.0	5788.5	5746.7	5704.9	5719.9	5715.6	5534.5	5240.9
27.5°	6306.0	6310.3	6288.9	6215.0	6119.6	6027.4	6025.3	6034.9	6018.9	5785.3	5399.5
30°	6688.6	6690.7	6660.7	6594.3	6490.3	6371.4	6343.5	6359.6	6325.3	6023.2	5566.7
32.5°	7069.0	7079.7	7046.5	6966.1	6882.5	6737.9	6682.2	6692.9	6607.1	6266.4	5739.2
35°	7402.2	7417.2	7406.5	7352.9	7261.9	7137.6	7071.1	7064.7	6958.6	6564.3	5967.4
37.5°	7741.9	7755.8	7744.1	7699.0	7662.6	7530.8	7495.5	7495.5	7311.1	6868.6	6257.8
40°	8091.2	8112.7	8098.7	8036.6	8005.5	7945.5	7860.8	7840.5	7641.2	7234.0	6731.4
42.5°	8415.9	8443.8	8499.5	8463.1	8399.8	8408.4	8238.0	8227.3	8081.6	7774.1	7326.1
45°	8876.7	8917.4	9011.7	8983.8	8971.0	8923.8	8721.3	8711.7	8655.9	8500.6	8064.4
47.5°	9379.2	9434.9	9605.3	9610.7	9748.9	9660.0	9384.6	9351.4	9364.2	9370.7	8965.6
50°	9842.1	9903.2	10182.9	10314.7	10640.4	10659.7	10219.3	10189.3	10239.7	10387.6	10015.7
52.5°	10211.8	10289.0	10638.3	11045.5	11603.8	11762.3	11246.9	11224.4	11261.9	11517.0	11203.0
55°	10482.9	10566.5	10946.9	11688.4	12579.9	12859.6	12429.9	12408.5	12432.1	12756.7	12494.2
57.5°	10546.1	10566.5	11118.3	12121.3	13403.9	14075.8	13877.6	13834.7	13719.0	14001.9	13919.4
60°	10249.3	10330.8	10976.9	12273.5	14041.5	15274.9	15390.6	15337.0	15012.3	15243.8	15177.4
62.5°	9647.1	9792.8	10448.6	12042.0	14291.2	16254.3	16874.7	16810.4	16251.0	16401.1	16081.7
65°	8663.4	8725.6	9414.6	11243.7	13974.0	16881.1	18198.0	18165.9	17461.9	17227.2	16248.9
67.5°	6904.0	7020.8	7605.8	9575.3	12676.4	16807.2	19221.4	19218.1	18252.7	17533.7	15656.3
69°	5454.2	5575.2	6132.4	7887.6	11216.9	16131.0	19392.8	19430.3	18475.6	17347.2	14809.8
70°	4348.3	4488.7	4871.2	6643.6	9921.4	15239.5	19250.3	19317.8	18432.7	17039.7	14028.7
72.5°	1850.6	1964.1	2236.3	3424.7	6046.7	11379.8	17601.2	17856.2	17439.4	15595.3	11594.1
75°	807.9	843.3	966.5	1396.2	2684.2	6193.5	13788.6	14260.1	14911.6	13182.1	8636.6
77.5°	591.5	606.5	674.0	819.7	1204.4	2339.2	8867.0	9141.3	10754.0	9592.5	5297.7
80°	457.5	468.3	520.8	602.2	786.5	946.2	4044.0	4279.7	6046.7	4927.0	2206.3
82.5°	364.3	371.8	408.3	443.6	543.3	573.3	1342.6	1489.4	2232.0	1360.9	584.0
85°	338.6	347.2	360.0	323.6	348.3	336.5	580.8	607.6	674.0	534.7	244.3
87.5°	153.2	181.1	356.8	251.8	185.4	147.9	237.9	248.6	279.7	280.7	108.2
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°	4066.5	4066.5	4066.5	4066.5	4066.5	4066.5	4066.5	4066.5	4066.5	4066.5	4066.5
2.5°	4076.2	4072.9	4078.3	4065.4	4081.5	4080.4	4075.1	4077.2	4087.9	4086.9	4087.9
5°	4100.8	4098.7	4105.1	4095.4	4114.7	4121.2	4122.2	4131.9	4143.7	4146.9	4146.9
7.5°	4162.9	4162.9	4166.2	4153.3	4166.2	4165.1	4159.7	4169.4	4181.2	4182.2	4181.2
10°	4270.1	4271.2	4265.8	4232.6	4221.9	4193.0	4166.2	4167.2	4182.2	4194.0	4197.2
12.5°	4405.1	4400.8	4377.3	4316.2	4271.2	4212.2	4184.4	4183.3	4198.3	4208.0	4211.2
15°	4559.4	4547.6	4486.6	4386.9	4307.6	4249.7	4204.7	4194.0	4185.5	4174.7	4175.8
17.5°	4705.2	4678.4	4576.6	4438.3	4354.8	4277.6	4190.8	4121.2	4072.9	4045.1	4036.5
20°	4853.0	4800.5	4653.7	4486.6	4380.5	4240.1	4072.9	3931.5	3843.6	3802.9	3795.4
22.5°	4988.0	4903.4	4725.5	4536.9	4360.1	4113.7	3851.1	3645.4	3523.2	3468.6	3472.9
25°	5119.8	5002.0	4800.5	4572.3	4257.2	3890.8	3542.5	3289.6	3148.2	3087.1	3085.0
27.5°	5235.6	5101.6	4882.0	4543.3	4065.4	3573.6	3177.1	2930.7	2812.8	2760.3	2751.7
30°	5368.4	5227.0	4990.2	4433.0	3784.7	3207.1	2820.3	2646.7	2563.1	2510.6	2501.0
32.5°	5530.2	5397.4	5079.1	4232.6	3425.7	2824.6	2541.7	2420.6	2344.5	2285.6	2274.9
35°	5766.0	5622.4	5101.6	3945.4	3031.4	2522.4	2337.0	2212.7	2109.9	2033.8	2026.3
37.5°	6061.7	5904.2	5050.2	3573.6	2648.9	2326.3	2166.7	2013.4	1879.5	1772.3	1755.2
40°	6488.2	6250.3	4907.7	3145.0	2367.0	2175.2	2000.6	1825.9	1659.8	1534.5	1509.8
42.5°	7000.4	6656.4	4689.1	2718.5	2160.2	2022.0	1835.6	1619.1	1460.5	1371.6	1358.7
45°	7651.9	7078.6	4385.8	2345.6	1956.6	1868.8	1657.7	1458.4	1359.8	1294.4	1283.7
47.5°	8395.5	7552.2	4067.6	2042.4	1784.1	1725.2	1515.2	1386.6	1308.4	1256.9	1247.3
50°	9309.6	8086.9	3730.0	1793.8	1610.5	1552.7	1447.7	1346.9	1284.8	1245.1	1235.5
52.5°	10340.4	8690.2	3486.8	1597.7	1466.9	1425.2	1412.3	1325.5	1275.1	1245.1	1235.5
55°	11450.5	9304.2	3224.3	1432.7	1342.6	1354.4	1388.7	1327.6	1293.4	1256.9	1243.0
57.5°	12561.7	9938.6	2931.7	1293.4	1244.1	1301.9	1372.6	1331.9	1303.0	1267.6	1254.8
60°	13440.4	10340.4	2478.5	1176.6	1165.8	1244.1	1334.1	1299.8	1262.3	1263.4	1261.2
62.5°	13850.8	10319.0	1978.1	1072.6	1087.6	1165.8	1271.9	1249.4	1218.3	1260.1	1263.4
65°	13620.4	9804.6	1539.8	978.3	1004.0	1084.4	1207.6	1224.8	1235.5	1315.9	1326.6
67.5°	12653.9	8803.8	1192.6	895.8	928.0	1028.7	1214.1	1334.1	1348.0	1432.7	1431.6
69°	11654.1	7865.1	1036.2	852.9	890.5	1042.6	1297.6	1403.7	1351.2	1441.2	1428.4
70°	10816.2	7122.6	952.6	824.0	873.3	1067.3	1353.4	1402.7	1335.1	1412.3	1390.9
72.5°	8330.2	5124.1	807.9	770.4	815.4	1021.2	1369.4	1371.6	1297.6	1312.6	1276.2
75°	5713.5	3238.2	705.1	697.6	727.6	920.5	1318.0	1310.5	1200.1	1178.7	1148.7
77.5°	3150.3	1644.8	599.0	627.9	648.3	815.4	1198.0	1187.3	1096.2	1051.2	1040.5
80°	1215.1	720.1	505.8	558.3	571.1	706.1	1050.1	1040.5	964.4	906.5	890.5
82.5°	458.6	377.2	417.9	483.3	479.0	582.9	889.4	884.0	810.1	725.4	699.7
85°	212.2	226.1	331.1	398.6	367.5	431.8	711.5	721.1	631.1	530.4	530.4
87.5°	90.0	126.4	234.7	301.1	247.5	291.5	521.8	498.3	457.5	317.2	297.9
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)