

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: P317872

Luminaire Tested: **GLEON-SA8A-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317872
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-SA8A-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28073 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

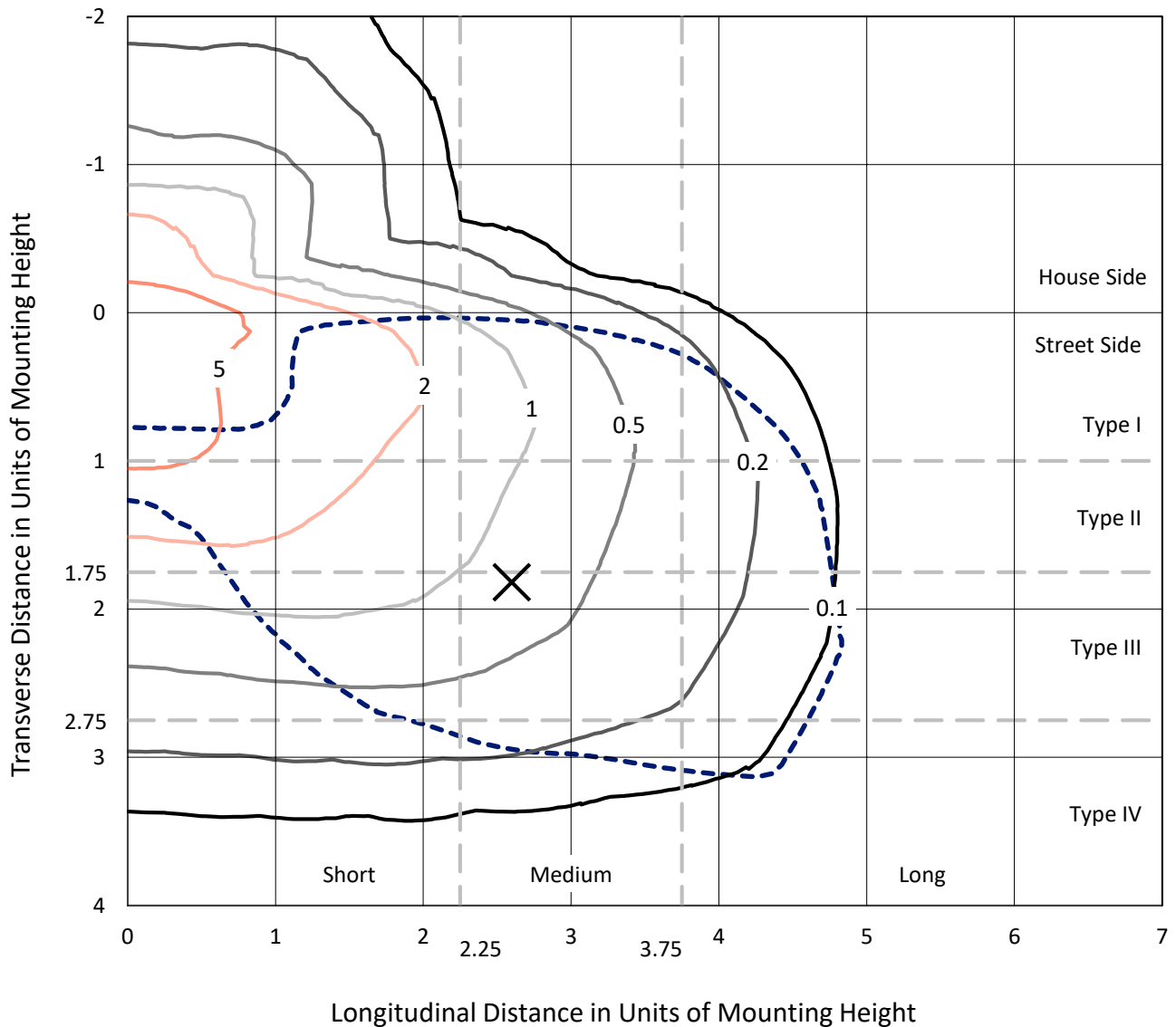
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

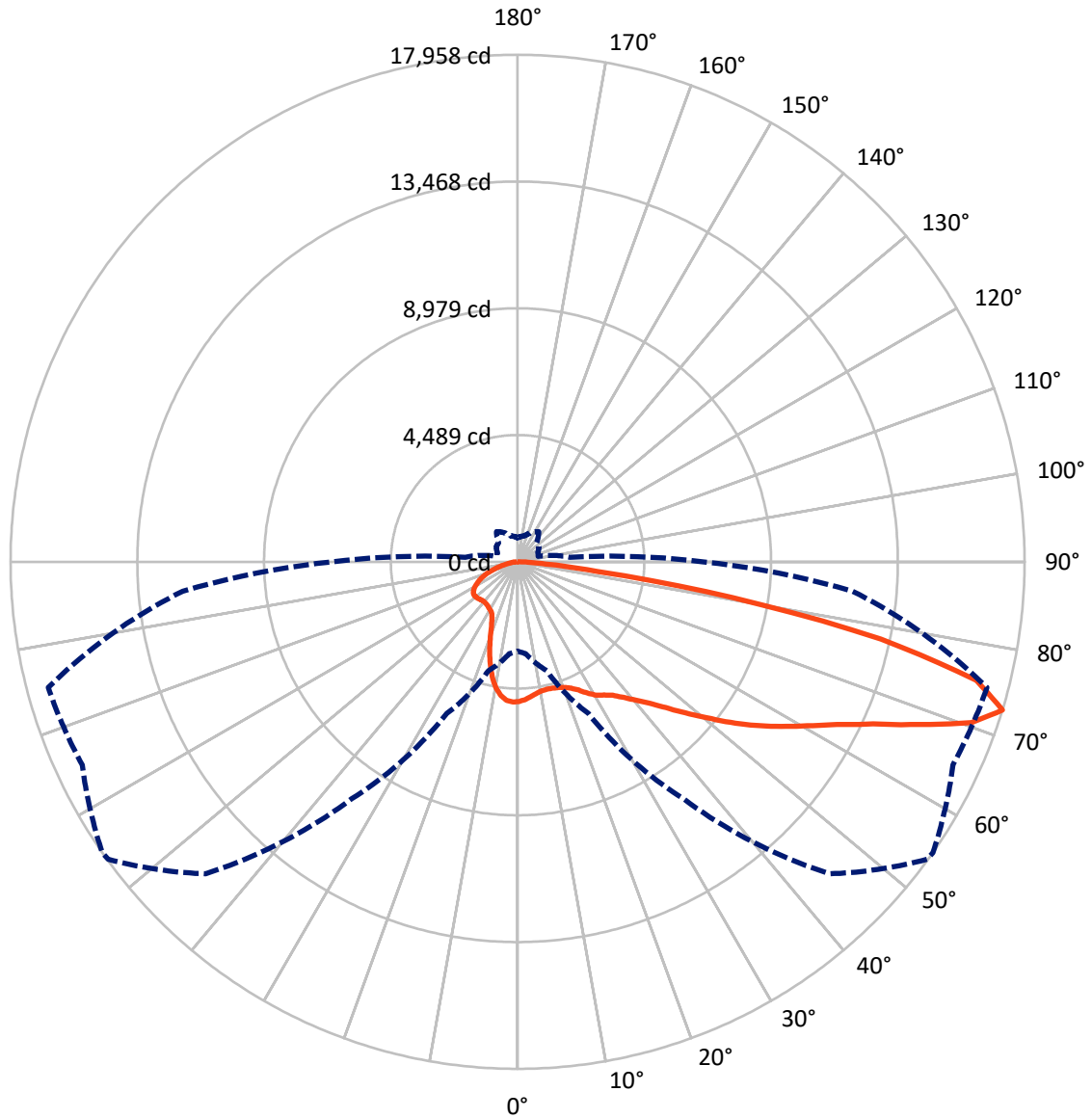
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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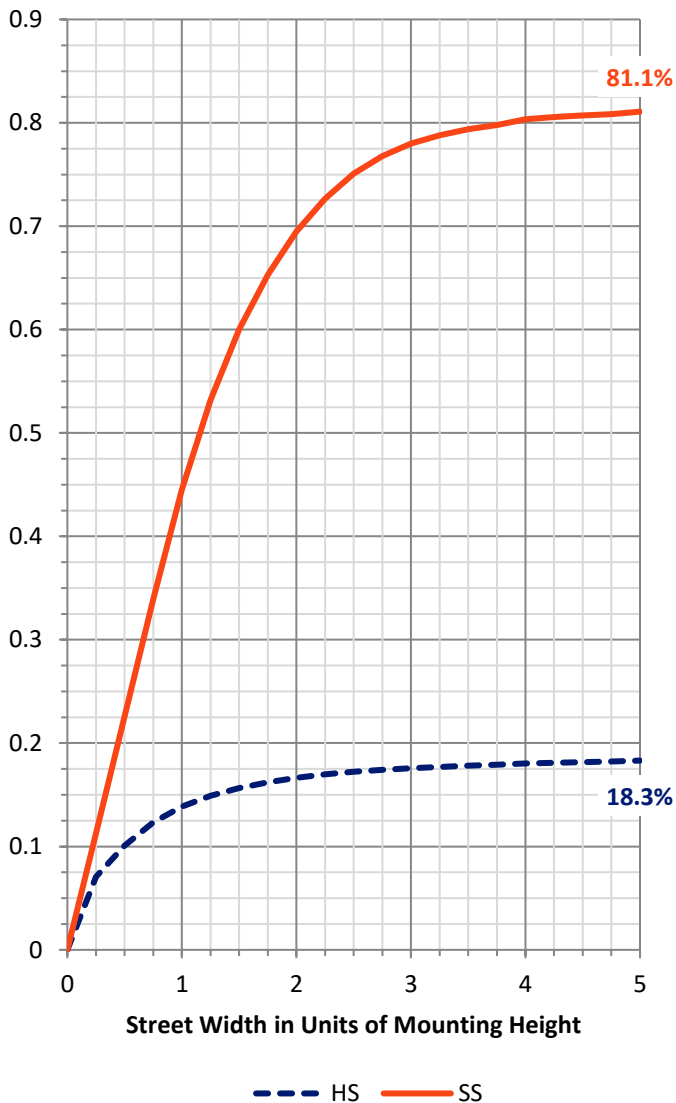
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5217.8	0.0	5217.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	22855.1	0.0	22855.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	28073.0	0.0	28073.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.0	1.6
10°-20°	1192.9	4.2
20°-30°	1966.8	7.0
30°-40°	2909.3	10.4
40°-50°	4060.8	14.5
50°-60°	5287.3	18.8
60°-70°	6497.9	23.1
70°-80°	5093.6	18.1
80°-90°	616.4	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°	28073.0	100.0
0°-180°	28073.0	100.0

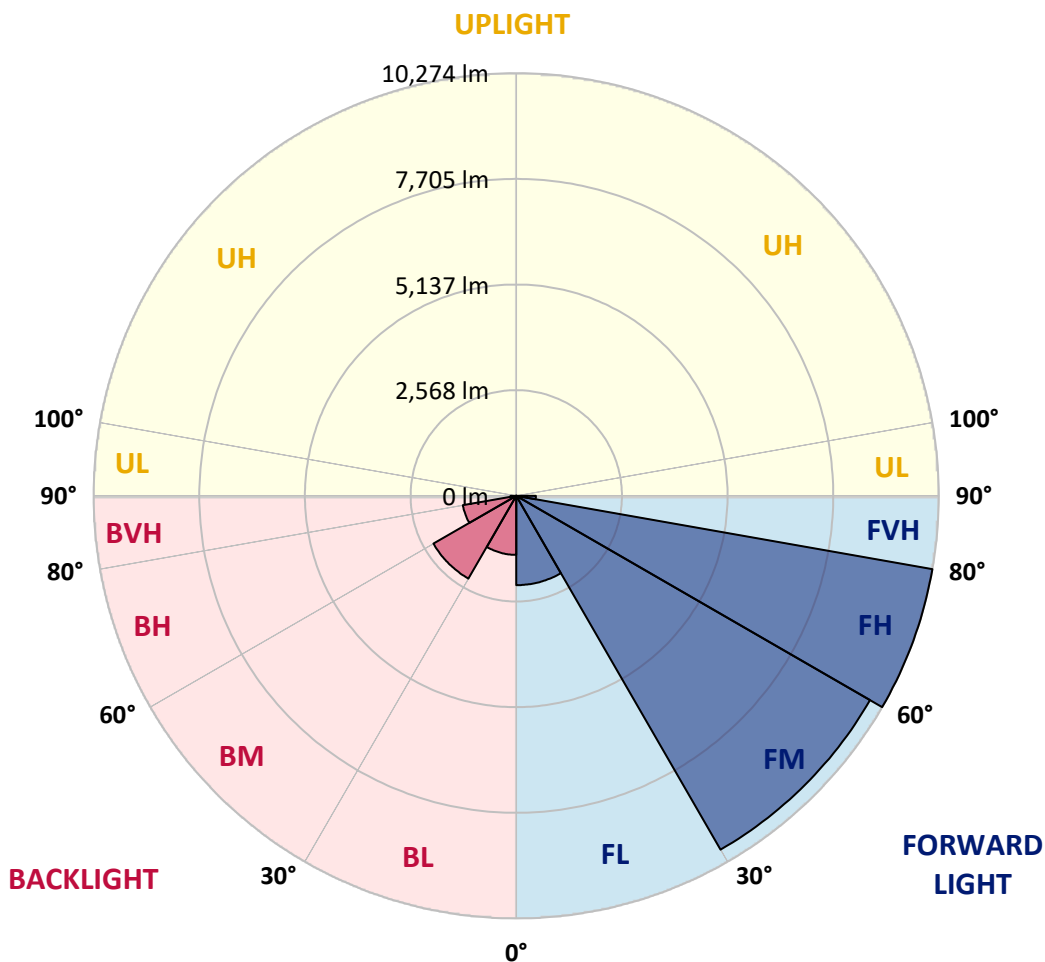


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2172.0	7.7			
FM (30°-60°)	9932.8	35.4			
FH (60°-80°)	10273.8	36.6			G4/12000
FVH (80°-90°)	476.6	1.7			G3/500
BL (0°-30°)	1435.6	5.1	B3/2500		
BM (30°-60°)	2324.6	8.3	B2/2500		
BH (60°-80°)	1317.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	139.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4951.5	4951.5	4951.5	4951.5	4951.5	4951.5	4951.5	4951.5	4951.5	4951.5	4951.5
2.5°	4790.3	4778.9	4793.1	4813.0	4834.8	4864.2	4881.3	4888.9	4918.3	4929.7	4954.3
5°	4568.4	4562.7	4586.4	4620.6	4668.9	4737.2	4792.2	4802.6	4880.4	4935.4	4985.6
7.5°	4407.2	4407.2	4434.7	4475.5	4529.5	4621.5	4699.3	4713.5	4845.3	4963.8	5056.7
10°	4279.2	4283.9	4316.2	4364.5	4428.1	4525.7	4629.1	4645.2	4835.8	5030.2	5178.1
12.5°	4193.9	4205.2	4234.6	4278.3	4357.0	4475.5	4606.3	4628.1	4855.7	5125.0	5324.1
15°	4247.9	4266.9	4269.7	4287.7	4331.4	4460.3	4619.6	4642.4	4898.4	5221.7	5490.0
17.5°	4485.0	4491.6	4462.2	4424.3	4403.4	4485.9	4659.4	4683.1	4949.6	5317.5	5649.3
20°	4845.3	4841.5	4778.0	4675.5	4569.4	4582.6	4724.9	4749.5	5018.8	5401.9	5808.6
22.5°	5300.4	5287.1	5189.5	5000.8	4819.7	4743.8	4839.6	4860.4	5123.1	5522.3	5979.3
25°	5852.3	5822.9	5693.9	5440.7	5174.3	4979.0	5012.2	5032.1	5274.8	5656.9	6135.8
27.5°	6434.4	6405.1	6241.0	5934.8	5580.1	5275.8	5250.2	5267.2	5447.4	5756.5	6251.4
30°	7043.2	7011.9	6862.1	6518.8	6010.6	5583.0	5472.0	5478.7	5568.7	5810.5	6346.3
32.5°	7654.8	7625.4	7457.6	7059.3	6478.1	5912.9	5632.3	5623.7	5641.8	5866.5	6453.4
35°	8274.9	8286.3	8090.0	7649.1	6995.8	6279.9	5821.9	5803.9	5764.1	5981.2	6605.1
37.5°	8938.6	8931.0	8676.9	8216.1	7537.2	6678.1	6094.0	6091.2	5953.7	6198.3	6843.1
40°	9382.4	9387.1	9232.6	8796.4	8084.3	7119.0	6443.0	6436.3	6256.2	6523.6	7155.1
42.5°	9555.9	9587.2	9627.0	9350.1	8657.0	7630.1	6859.2	6849.8	6678.1	6990.1	7522.0
45°	9568.2	9630.8	9877.3	9842.3	9237.3	8215.2	7391.2	7364.6	7241.4	7610.2	7960.1
47.5°	9462.0	9526.5	9936.1	10135.3	9756.0	8832.4	8013.2	7992.3	7886.1	8385.8	8434.2
50°	9229.7	9291.4	9814.8	10278.4	10182.7	9426.0	8730.0	8675.0	8618.1	9281.9	8976.6
52.5°	8794.5	8913.0	9652.6	10312.6	10437.7	9953.2	9483.8	9447.8	9479.1	10227.2	9519.9
55°	7763.8	7896.6	9234.5	10284.1	10626.4	10396.0	10237.7	10235.8	10397.9	11219.0	10103.0
57.5°	7186.4	7280.2	8383.0	10235.8	10850.2	10836.0	10983.9	11001.9	11317.7	12299.0	10713.7
60°	6860.2	6958.8	7951.6	10056.6	11197.2	11404.9	11745.3	11781.3	12252.6	13494.7	11448.5
62.5°	6563.4	6671.5	7684.2	9691.5	11605.9	12218.4	12657.5	12689.7	13242.5	14723.6	12158.7
65°	6056.1	6178.4	7292.6	9451.6	11977.6	13279.5	13817.1	13838.9	14379.4	16011.2	12702.0
67.5°	5339.3	5451.2	6553.9	8921.6	12252.6	14568.1	15358.9	15371.2	15506.8	16920.5	12979.8
70°	4502.0	4544.7	5501.4	7827.3	11927.3	15773.2	17048.5	17051.4	16534.6	17502.7	12934.3
72.5°	3163.2	3263.7	3993.8	5925.3	10250.0	15626.3	17925.6	17957.9	17012.5	17208.8	11900.8
75°	1940.0	2046.2	2505.1	3590.8	6502.7	12289.6	16562.1	16785.9	16116.5	15343.7	9721.8
77.5°	1297.1	1337.0	1634.7	2093.6	2946.0	7070.7	12733.3	13154.3	13388.5	11189.6	6217.3
80°	723.5	799.3	1083.8	1300.9	1310.4	2809.5	7634.9	7733.5	7449.0	4455.6	1918.2
82.5°	383.1	424.8	723.5	764.2	714.9	940.6	2845.5	2848.4	2380.0	1194.7	569.9
85°	296.8	331.9	495.9	466.5	365.1	417.2	938.7	989.9	809.8	489.3	185.8
87.5°	147.9	183.9	336.6	295.8	143.2	119.5	335.7	358.4	319.5	191.5	67.3
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°	4951.5	4951.5	4951.5	4951.5	4951.5	4951.5	4951.5	4951.5	4951.5	4951.5	4951.5
2.5°	4963.8	4972.3	4982.8	4971.4	4967.6	4952.4	4926.8	4921.1	4907.9	4908.8	4916.4
5°	5007.4	5021.6	5016.0	4972.3	4920.2	4847.2	4771.3	4706.8	4664.2	4661.3	4658.5
7.5°	5090.9	5100.3	5055.8	4931.6	4785.5	4616.8	4457.5	4318.1	4233.7	4212.8	4208.1
10°	5221.7	5219.8	5097.5	4847.2	4556.1	4254.6	3998.5	3805.1	3692.3	3659.1	3650.5
12.5°	5367.7	5345.9	5111.7	4693.6	4231.8	3813.6	3489.4	3274.1	3156.5	3118.6	3109.1
15°	5518.5	5464.4	5076.6	4464.1	3833.6	3338.6	2998.2	2799.1	2735.5	2714.7	2710.9
17.5°	5658.8	5554.5	4976.1	4153.1	3379.4	2865.4	2600.0	2520.3	2535.5	2563.0	2563.9
20°	5796.3	5615.2	4814.9	3760.5	2900.5	2475.7	2385.7	2444.4	2516.5	2572.5	2580.0
22.5°	5931.9	5657.9	4607.3	3307.3	2471.9	2256.7	2320.2	2427.4	2509.9	2570.6	2581.0
25°	6045.7	5668.3	4320.9	2823.7	2174.2	2174.2	2288.9	2390.4	2471.9	2531.7	2542.1
27.5°	6087.4	5598.1	3917.0	2376.2	2024.4	2136.3	2245.3	2329.7	2398.9	2462.5	2473.8
30°	6103.5	5468.2	3450.5	2016.8	1962.8	2095.5	2186.5	2258.6	2324.0	2383.8	2394.2
32.5°	6106.4	5311.8	2955.5	1812.9	1920.1	2052.8	2113.5	2177.1	2247.2	2270.9	2274.7
35°	6124.4	5126.9	2434.0	1708.6	1880.3	2013.0	2061.4	2106.9	1993.1	2001.6	2009.2
37.5°	6176.5	4943.9	1997.8	1649.9	1854.7	1992.2	2050.0	1885.0	1795.9	1775.0	1772.2
40°	6274.2	4748.6	1674.5	1602.4	1845.2	2002.6	1977.0	1759.8	1606.2	1491.5	1474.4
42.5°	6409.8	4538.1	1467.8	1571.2	1851.8	2052.8	1875.5	1639.4	1384.4	1310.4	1300.9
45°	6562.5	4317.1	1355.9	1549.4	1874.6	2091.7	1854.7	1479.2	1281.0	1225.1	1220.3
47.5°	6710.4	4046.9	1298.1	1539.9	1905.9	2060.4	1766.5	1429.9	1231.7	1202.3	1205.2
50°	6880.1	3803.2	1263.0	1529.4	1933.4	2040.5	1666.9	1404.3	1212.7	1248.8	1286.7
52.5°	7023.3	3551.0	1231.7	1508.6	1943.8	2005.4	1641.3	1409.0	1212.7	1282.0	1318.0
55°	7193.0	3360.4	1195.7	1465.0	1923.9	1905.9	1623.3	1437.5	1227.0	1183.3	1187.1
57.5°	7412.0	3297.8	1155.8	1396.7	1857.5	1760.8	1614.8	1465.0	1218.4	1190.9	1200.4
60°	7715.5	3364.2	1139.7	1307.6	1754.2	1647.0	1615.7	1450.7	1158.7	1111.3	1112.2
62.5°	8004.7	3438.2	1138.8	1251.6	1627.1	1545.6	1593.9	1404.3	1128.4	1100.9	1111.3
65°	8099.5	3363.2	1093.3	1189.0	1483.9	1424.2	1554.1	1355.0	1105.6	1063.9	1062.0
67.5°	7972.4	3130.9	1001.3	1087.6	1319.9	1282.9	1501.9	1296.2	1069.6	1035.4	1029.7
70°	7595.0	2612.3	887.5	953.9	1133.1	1123.6	1419.4	1227.9	1021.2	991.8	967.2
72.5°	6579.5	1861.3	748.1	793.6	922.6	952.9	1305.7	1138.8	952.9	889.4	851.5
75°	5403.8	1377.7	614.4	623.9	700.7	783.2	1149.2	1034.5	872.3	764.2	734.9
77.5°	3309.2	842.9	489.3	493.1	502.5	624.9	946.3	917.9	769.9	637.2	616.3
80°	1071.5	459.9	353.7	371.7	343.2	458.0	732.0	781.3	660.9	532.9	510.1
82.5°	407.7	268.3	238.9	251.3	238.0	307.2	533.8	625.8	541.4	438.1	356.5
85°	197.2	151.7	141.3	158.3	147.0	157.4	341.4	460.8	410.6	285.4	265.5
87.5°	70.2	67.3	54.0	73.0	62.6	55.9	104.3	232.3	271.2	196.3	175.4
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)