

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: P317874

Luminaire Tested: **GLEON-SA0A-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317874
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-SA0A-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 34670 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

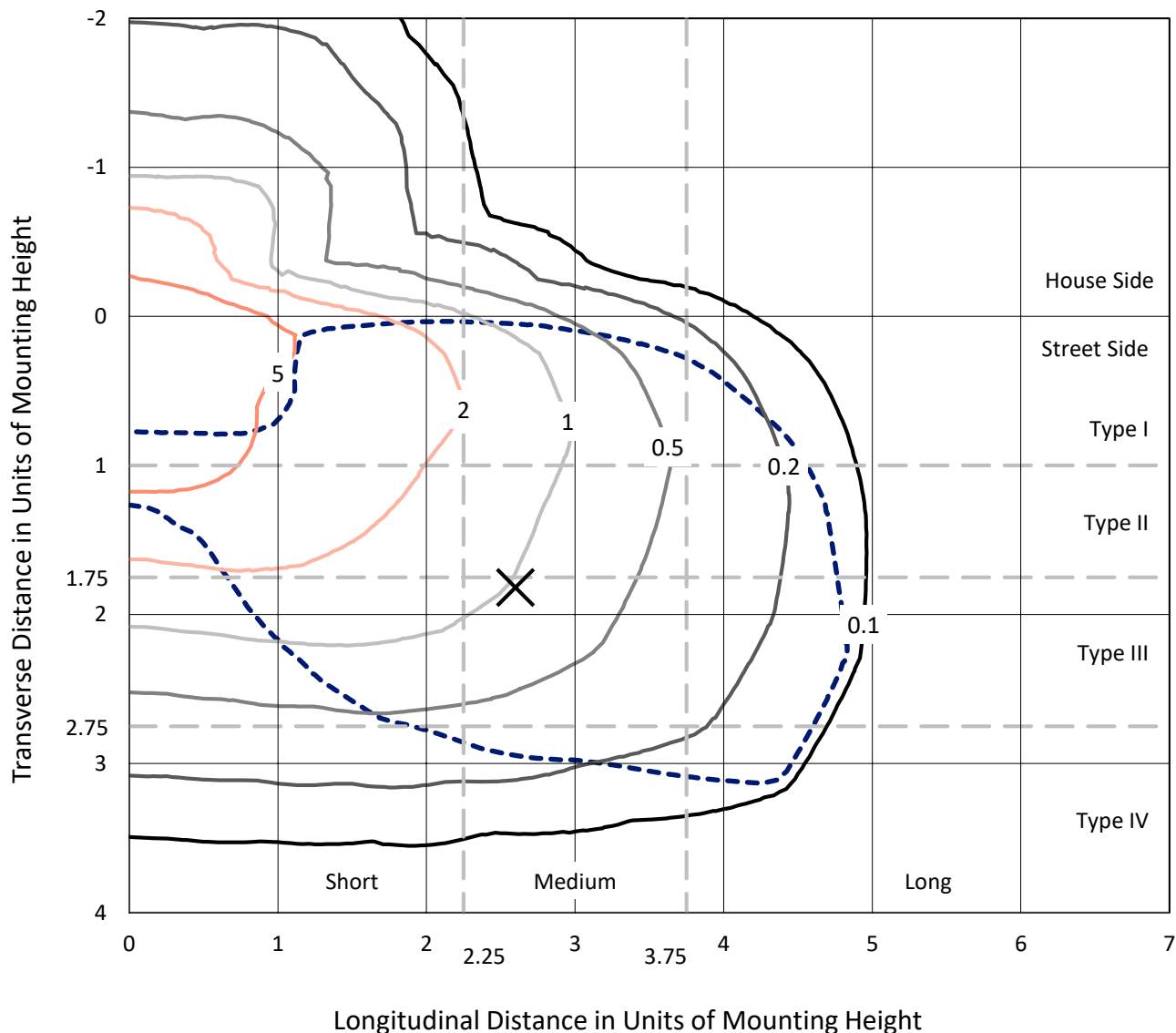
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

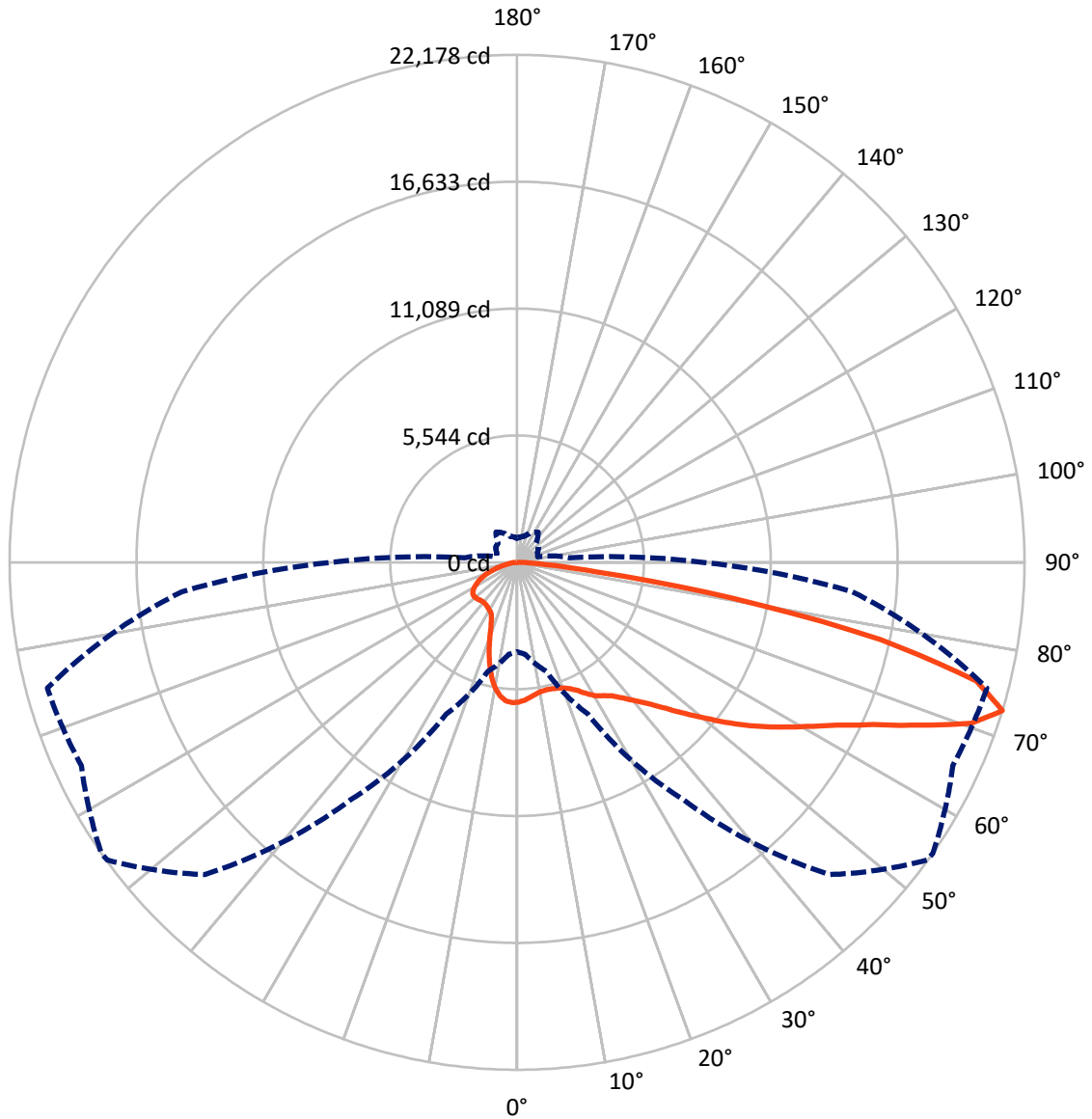
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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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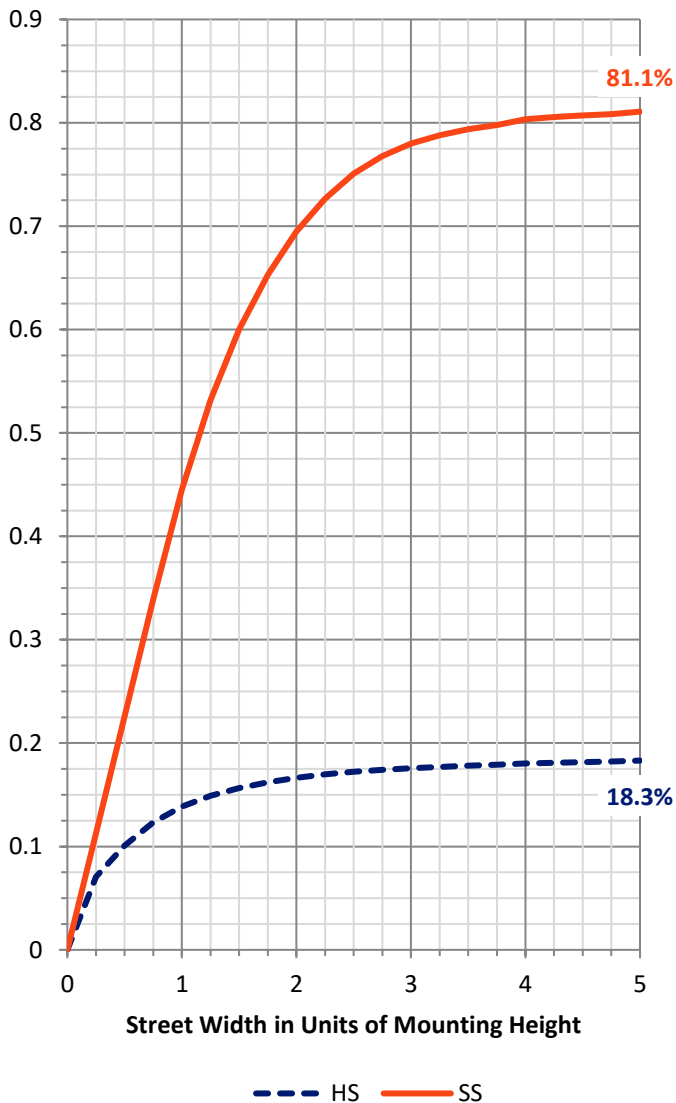
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6444.0	0.0	6444.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	28226.0	0.0	28226.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	34670.0	0.0	34670.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.3	1.6
10°-20°	1473.2	4.2
20°-30°	2428.9	7.0
30°-40°	3593.0	10.4
40°-50°	5015.1	14.5
50°-60°	6529.8	18.8
60°-70°	8024.9	23.1
70°-80°	6290.5	18.1
80°-90°	761.2	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°	34670.0	100.0
0°-180°	34670.0	100.0

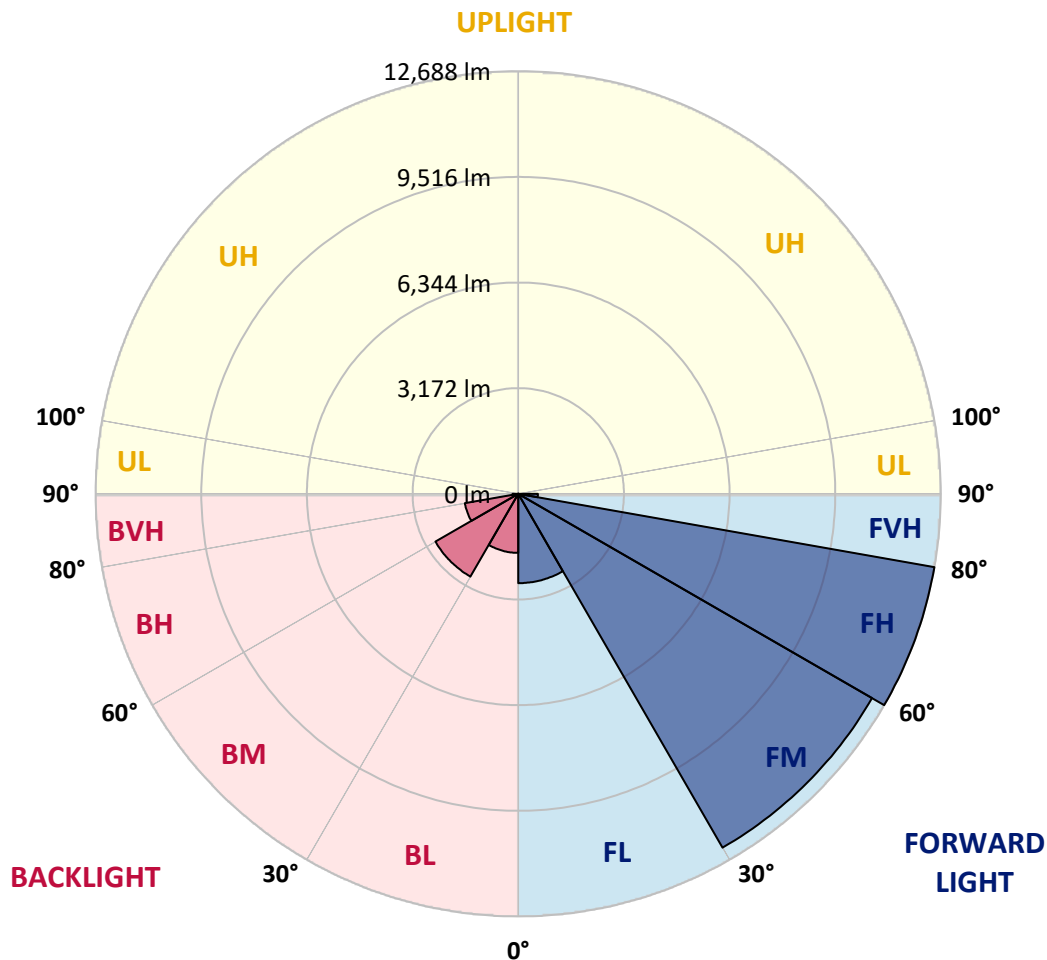


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2682.4	7.7			
FM (30°-60°)	12266.9	35.4			
FH (60°-80°)	12688.0	36.6			G5
FVH (80°-90°)	588.5	1.7			G4/750
BL (0°-30°)	1773.0	5.1	B3/2500		
BM (30°-60°)	2870.9	8.3	B3/5000		
BH (60°-80°)	1627.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	172.7	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-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6115.0	6115.0	6115.0	6115.0	6115.0	6115.0	6115.0	6115.0	6115.0	6115.0	6115.0
2.5°	5916.0	5901.9	5919.5	5944.1	5971.0	6007.3	6028.4	6037.8	6074.1	6088.1	6118.6
5°	5642.0	5634.9	5664.2	5706.4	5766.1	5850.4	5918.3	5931.2	6027.2	6095.1	6157.2
7.5°	5442.9	5442.9	5476.8	5527.2	5593.9	5707.5	5803.6	5821.1	5983.9	6130.3	6245.0
10°	5284.8	5290.6	5330.5	5390.2	5468.6	5589.3	5716.9	5736.8	5972.2	6212.2	6394.9
12.5°	5179.4	5193.5	5229.8	5283.6	5380.8	5527.2	5688.8	5715.7	5996.8	6329.3	6575.3
15°	5246.1	5269.6	5273.1	5295.3	5349.2	5508.5	5705.2	5733.3	6049.5	6448.8	6780.2
17.5°	5538.9	5547.1	5510.8	5464.0	5438.2	5540.1	5754.4	5783.6	6112.7	6567.1	6976.9
20°	5983.9	5979.2	5900.7	5774.3	5643.1	5659.5	5835.2	5865.6	6198.2	6671.3	7173.6
22.5°	6546.0	6529.6	6409.0	6175.9	5952.3	5858.6	5976.9	6002.6	6327.0	6820.0	7384.4
25°	7227.5	7191.2	7031.9	6719.3	6390.2	6149.0	6190.0	6214.6	6514.4	6986.3	7577.6
27.5°	7946.5	7910.2	7707.6	7329.4	6891.4	6515.5	6483.9	6505.0	6727.5	7109.2	7720.5
30°	8698.3	8659.7	8474.6	8050.7	7423.1	6894.9	6757.9	6766.1	6877.4	7176.0	7837.6
32.5°	9453.6	9417.3	9210.0	8718.2	8000.4	7302.5	6955.8	6945.3	6967.5	7245.1	7969.9
35°	10219.5	10233.5	9991.1	9446.6	8639.8	7755.6	7190.0	7167.8	7118.6	7386.8	8157.3
37.5°	11039.2	11029.8	10716.0	10146.8	9308.4	8247.5	7526.1	7522.6	7352.8	7654.9	8451.2
40°	11587.2	11593.1	11402.2	10863.5	9984.1	8792.0	7957.0	7948.9	7726.4	8056.6	8836.5
42.5°	11801.5	11840.1	11889.3	11547.4	10691.4	9423.2	8471.1	8459.4	8247.5	8632.7	9289.7
45°	11816.7	11894.0	12198.5	12155.1	11408.0	10145.7	9128.1	9095.3	8943.0	9398.6	9830.7
47.5°	11685.6	11765.2	12271.1	12517.0	12048.6	10908.0	9896.3	9870.5	9739.3	10356.5	10416.2
50°	11398.7	11474.8	12121.2	12693.8	12575.5	11641.1	10781.5	10713.6	10643.4	11463.1	11086.0
52.5°	10861.2	11007.5	11920.9	12736.0	12890.5	12292.1	11712.5	11668.0	11706.6	12630.6	11757.0
55°	9588.3	9752.2	11404.5	12700.8	13123.6	12839.0	12643.5	12641.1	12841.4	13855.5	12477.2
57.5°	8875.1	8991.1	10352.9	12641.1	13399.9	13382.4	13565.0	13587.3	13977.2	15189.2	13231.3
60°	8472.3	8594.1	9820.1	12419.8	13828.5	14085.0	14505.4	14549.9	15131.9	16665.9	14138.8
62.5°	8105.8	8239.3	9489.9	11968.9	14333.2	15089.7	15631.9	15671.7	16354.4	18183.5	15015.9
65°	7479.3	7630.3	9006.3	11672.7	14792.3	16400.1	17064.0	17091.0	17758.4	19773.8	15686.9
67.5°	6594.0	6732.2	8094.1	11018.1	15131.9	17991.5	18968.1	18983.3	19150.8	20896.8	16030.0
70°	5560.0	5612.7	6794.2	9666.7	14730.2	19479.8	21054.9	21058.4	20420.2	21615.8	15973.8
72.5°	3906.5	4030.6	4932.3	7317.7	12658.7	19298.3	22138.0	22177.9	21010.4	21252.8	14697.4
75°	2395.9	2527.1	3093.8	4434.6	8030.8	15177.5	20454.1	20730.5	19903.7	18949.4	12006.4
77.5°	1601.9	1651.1	2018.8	2585.6	3638.3	8732.3	15725.6	16245.5	16534.7	13819.2	7678.3
80°	893.5	987.2	1338.5	1606.6	1618.3	3469.7	9429.0	9550.8	9199.5	5502.6	2369.0
82.5°	473.1	524.6	893.5	943.8	882.9	1161.6	3514.2	3517.7	2939.2	1475.5	703.8
85°	366.5	409.9	612.4	576.1	450.8	515.2	1159.3	1222.5	1000.0	604.2	229.5
87.5°	182.7	227.2	415.7	365.4	176.8	147.5	414.5	442.6	394.6	236.5	83.1
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°	6115.0	6115.0	6115.0	6115.0	6115.0	6115.0	6115.0	6115.0	6115.0	6115.0	6115.0
2.5°	6130.3	6140.8	6153.7	6139.6	6134.9	6116.2	6084.6	6077.6	6061.2	6062.3	6071.7
5°	6184.1	6201.7	6194.7	6140.8	6076.4	5986.2	5892.5	5812.9	5760.2	5756.7	5753.2
7.5°	6287.2	6298.9	6243.9	6090.5	5910.1	5701.7	5504.9	5332.8	5228.6	5202.8	5197.0
10°	6448.8	6446.4	6295.4	5986.2	5626.7	5254.3	4938.2	4699.3	4559.9	4518.9	4508.4
12.5°	6629.1	6602.2	6312.9	5796.5	5226.2	4709.8	4309.3	4043.5	3898.3	3851.5	3839.8
15°	6815.3	6748.6	6269.6	5513.1	4734.4	4123.1	3702.8	3456.8	3378.4	3352.6	3347.9
17.5°	6988.6	6859.8	6145.5	5129.0	4173.5	3538.8	3210.9	3112.6	3131.3	3165.3	3166.4
20°	7158.4	6934.8	5946.4	4644.2	3582.1	3057.5	2946.3	3018.9	3107.9	3177.0	3186.3
22.5°	7325.9	6987.4	5690.0	4084.5	3052.8	2787.0	2865.5	2997.8	3099.7	3174.6	3187.5
25°	7466.4	7000.3	5336.3	3487.3	2685.1	2685.1	2826.8	2952.1	3052.8	3126.6	3139.5
27.5°	7517.9	6913.7	4837.5	2934.6	2500.1	2638.3	2773.0	2877.2	2962.7	3041.1	3055.2
30°	7537.8	6753.2	4261.3	2490.7	2424.0	2587.9	2700.4	2789.4	2870.2	2943.9	2956.8
32.5°	7541.3	6560.0	3650.1	2239.0	2371.3	2535.2	2610.2	2688.7	2775.3	2804.6	2809.3
35°	7563.6	6331.7	3006.0	2110.2	2322.1	2486.1	2545.8	2602.0	2461.5	2472.0	2481.4
37.5°	7628.0	6105.7	2467.3	2037.6	2290.5	2460.3	2531.7	2328.0	2217.9	2192.1	2188.6
40°	7748.6	5864.4	2068.0	1979.0	2278.8	2473.2	2441.6	2173.4	1983.7	1842.0	1820.9
42.5°	7916.1	5604.5	1812.7	1940.4	2287.0	2535.2	2316.3	2024.7	1709.7	1618.3	1606.6
45°	8104.6	5331.6	1674.6	1913.4	2315.1	2583.3	2290.5	1826.8	1582.0	1513.0	1507.1
47.5°	8287.3	4997.9	1603.1	1901.7	2353.7	2544.6	2181.6	1765.9	1521.1	1484.8	1488.4
50°	8496.9	4696.9	1559.8	1888.8	2387.7	2520.0	2058.6	1734.3	1497.7	1542.2	1589.1
52.5°	8673.7	4385.5	1521.1	1863.1	2400.6	2476.7	2027.0	1740.1	1497.7	1583.2	1627.7
55°	8883.3	4150.1	1476.7	1809.2	2376.0	2353.7	2004.8	1775.3	1515.3	1461.4	1466.1
57.5°	9153.8	4072.8	1427.5	1724.9	2294.0	2174.6	1994.2	1809.2	1504.8	1470.8	1482.5
60°	9528.6	4154.8	1407.6	1614.8	2166.4	2034.1	1995.4	1791.7	1431.0	1372.4	1373.6
62.5°	9885.7	4246.1	1406.4	1545.7	2009.5	1908.8	1968.5	1734.3	1393.5	1359.5	1372.4
65°	10002.8	4153.6	1350.2	1468.5	1832.6	1758.9	1919.3	1673.4	1365.4	1313.9	1311.5
67.5°	9845.9	3866.7	1236.6	1343.2	1630.1	1584.4	1854.9	1600.8	1320.9	1278.7	1271.7
70°	9379.8	3226.1	1096.1	1178.0	1399.4	1387.7	1753.0	1516.5	1261.2	1224.9	1194.4
72.5°	8125.7	2298.7	923.9	980.1	1139.4	1176.9	1612.5	1406.4	1176.9	1098.4	1051.6
75°	6673.6	1701.5	758.8	770.5	865.4	967.3	1419.3	1277.6	1077.3	943.8	907.5
77.5°	4086.8	1041.0	604.2	608.9	620.6	771.7	1168.7	1133.5	950.9	786.9	761.2
80°	1323.2	567.9	436.8	459.0	423.9	565.6	904.0	964.9	816.2	658.1	630.0
82.5°	503.5	331.4	295.1	310.3	293.9	379.4	659.3	772.9	668.6	541.0	440.3
85°	243.6	187.4	174.5	195.6	181.5	194.4	421.6	569.1	507.0	352.5	327.9
87.5°	86.7	83.1	66.7	90.2	77.3	69.1	128.8	286.9	334.9	242.4	216.6
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)