

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: P383274

Luminaire Tested: **GLEON-SA6A-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6A-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26636.7 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

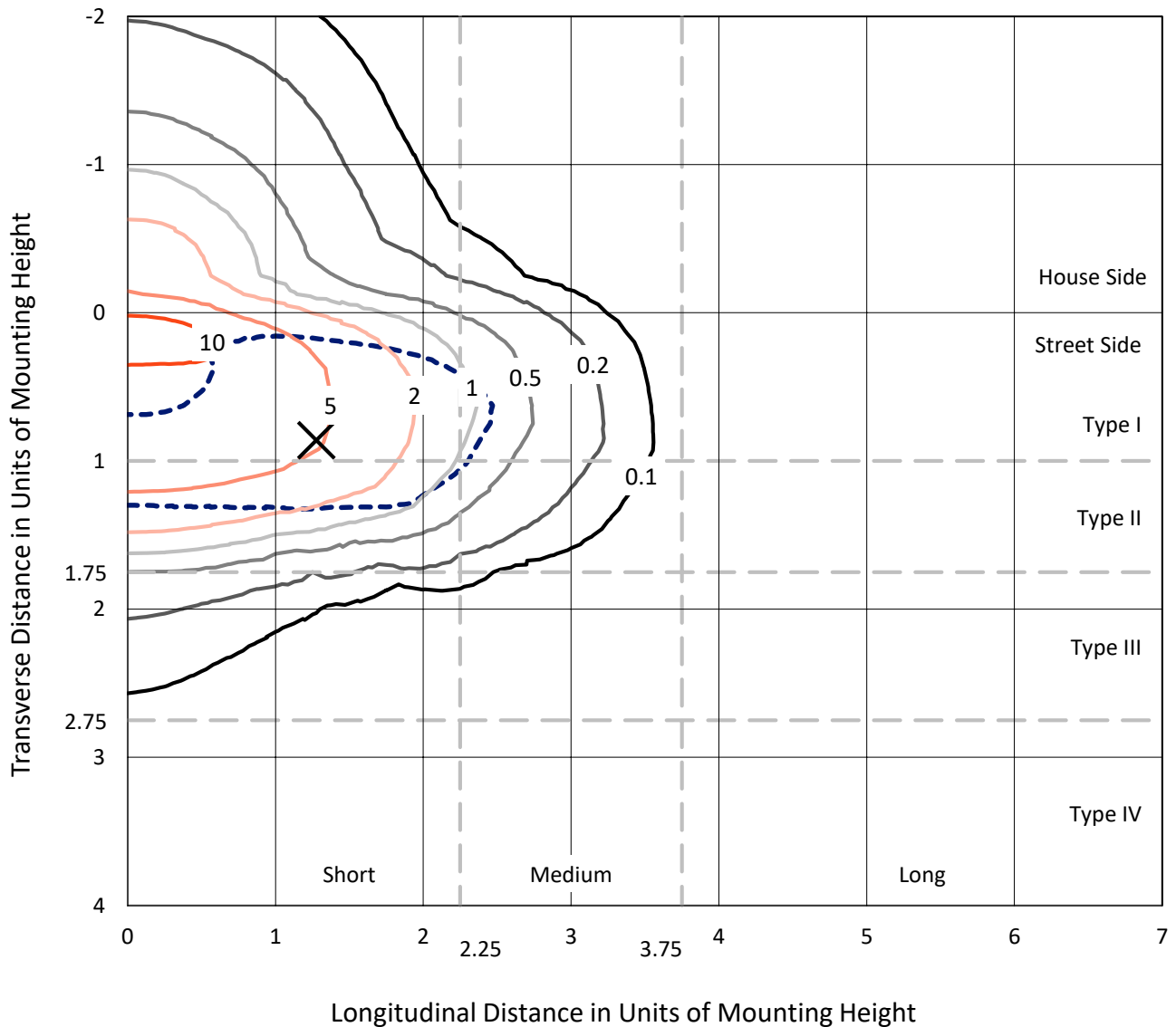
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

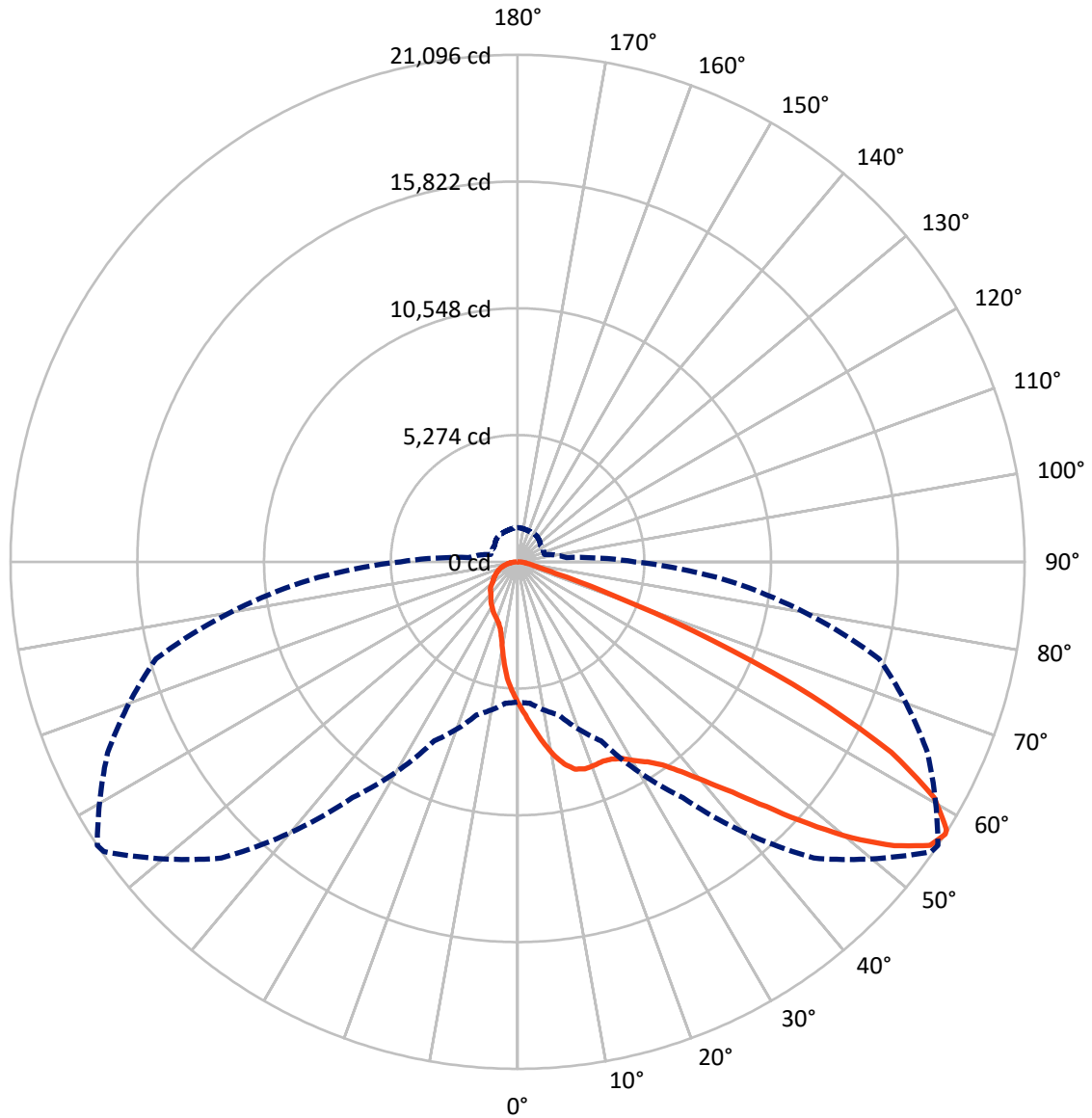
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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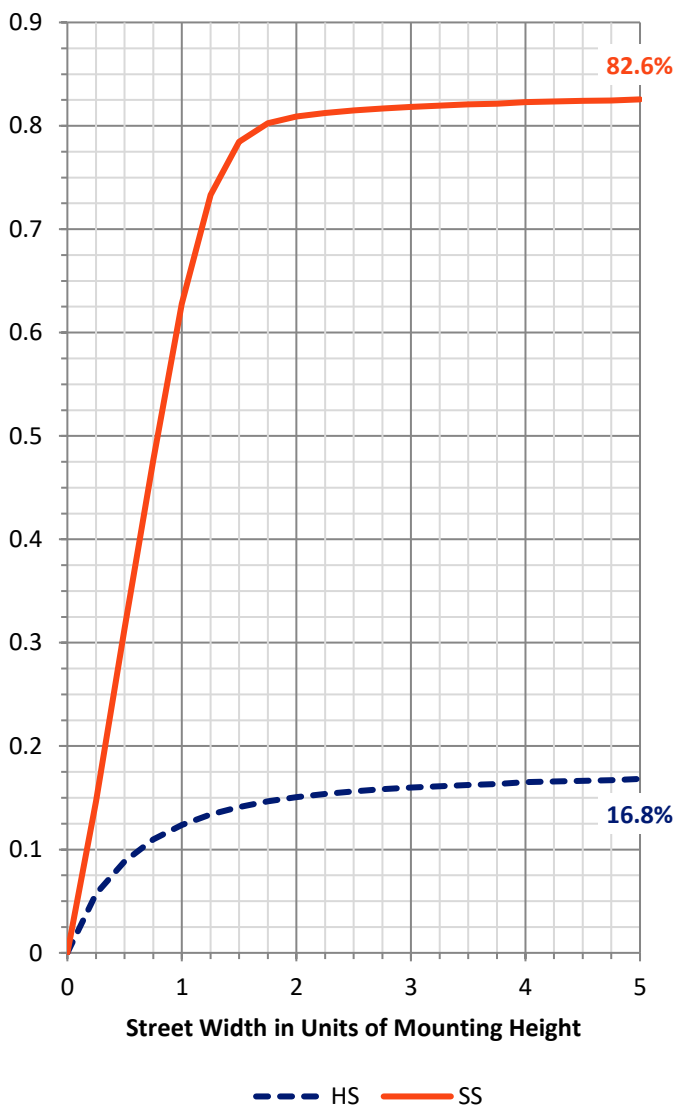
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4591.6	0.0	4591.6
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	22045.1	0.0	22045.1
	% Fixture	82.8	0.0	82.8
Total	Lumens	26636.7	0.0	26636.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.4	2.1
10°-20°	1595.6	6.0
20°-30°	2598.9	9.8
30°-40°	3885.1	14.6
40°-50°	5892.9	22.1
50°-60°	6604.8	24.8
60°-70°	3901.1	14.6
70°-80°	1278.1	4.8
80°-90°	315.8	1.2
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°	26636.7	100.0
0°-180°	26636.7	100.0

Coefficient of Utilization



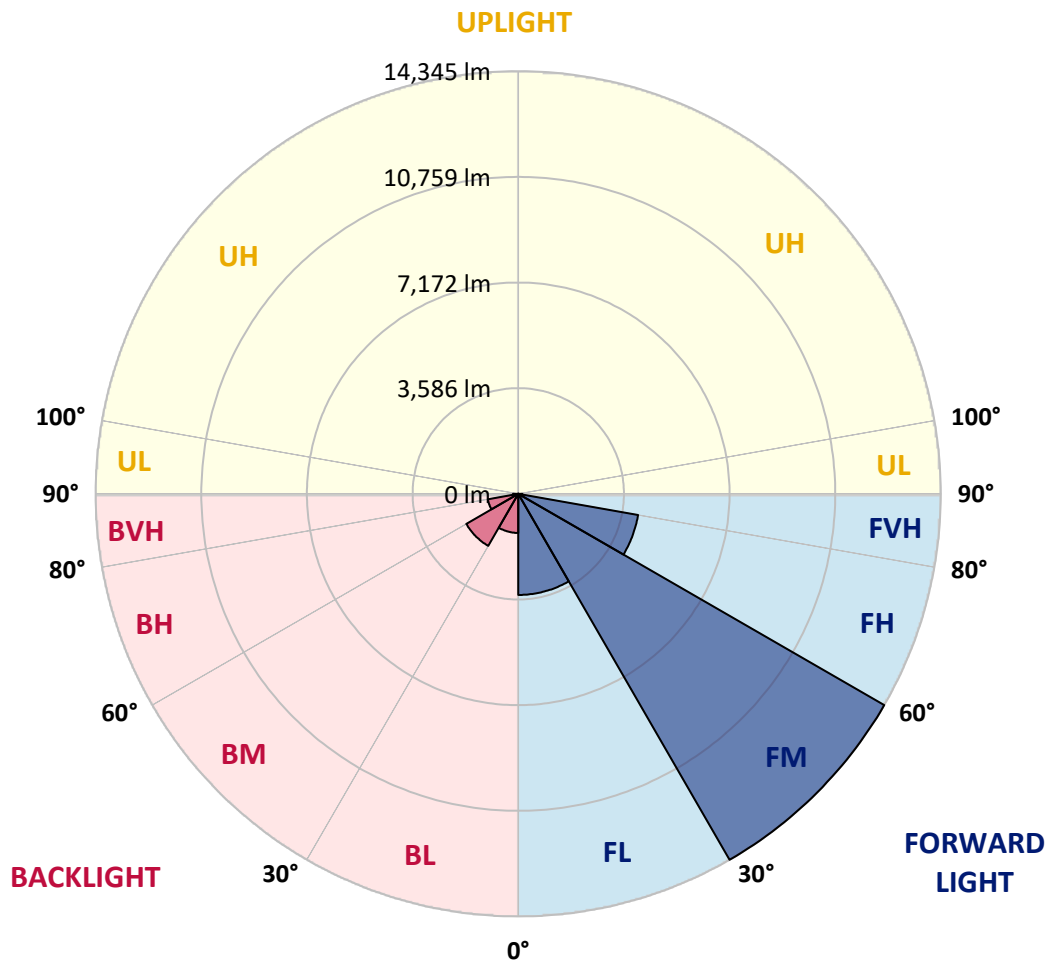
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3431.2	12.9			
FM (30°-60°)	14344.7	53.9			
FH (60°-80°)	4130.1	15.5			G2/5000
FVH (80°-90°)	139.0	0.5			G2/225
BL (0°-30°)	1327.7	5.0	B3/2500		
BM (30°-60°)	2038.1	7.7	B2/2500		
BH (60°-80°)	1049.1	3.9	B3/2500		G3/2500
BVH (80°-90°)	176.7	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5908.1	5908.1	5908.1	5908.1	5908.1	5908.1	5908.1	5908.1	5908.1	5908.1	5908.1
2.5°	6784.1	6846.3	6818.8	6723.6	6650.4	6547.0	6431.7	6396.8	6275.1	6138.7	5974.9
5°	7857.9	7826.8	7781.9	7633.6	7477.1	7294.9	7005.6	6959.9	6688.9	6380.4	6054.5
7.5°	8469.4	8466.6	8440.1	8353.1	8210.3	7972.3	7623.5	7569.5	7160.3	6664.2	6158.8
10°	8380.6	8374.1	8418.1	8508.8	8551.7	8502.3	8208.4	8154.5	7651.9	6978.1	6279.7
12.5°	7876.1	7879.9	7950.3	8140.7	8399.8	8711.0	8663.4	8636.8	8161.8	7333.3	6426.2
15°	7483.5	7491.7	7547.5	7713.2	8018.9	8583.7	8939.9	8949.0	8655.2	7725.1	6597.3
17.5°	7311.3	7328.8	7354.4	7470.6	7750.8	8330.2	9005.7	9055.2	9087.2	8131.6	6762.1
20°	7366.3	7382.8	7390.1	7464.2	7694.0	8176.4	8960.0	9048.8	9418.6	8514.2	6926.9
22.5°	7612.5	7622.6	7627.1	7646.4	7824.9	8220.3	8929.8	9023.2	9658.5	8857.4	7051.3
25°	8020.8	8013.5	7984.2	7959.4	8079.4	8394.3	8999.4	9088.2	9853.4	9168.8	7132.9
27.5°	8509.6	8500.5	8443.7	8376.0	8444.7	8665.3	9199.9	9270.3	10028.3	9459.8	7174.0
30°	9096.4	9072.6	8965.5	8884.9	8911.5	9071.7	9530.3	9594.4	10298.4	9790.3	7214.4
32.5°	9774.7	9749.1	9594.4	9460.7	9460.7	9594.4	9870.9	9924.0	10527.1	10163.7	7279.3
35°	10624.2	10592.2	10390.8	10166.5	10103.4	10171.1	10335.0	10372.5	10939.1	10634.3	7397.4
37.5°	11625.7	11582.7	11321.8	11021.5	10883.3	10879.6	10997.7	11074.6	11597.3	11252.2	7597.9
40°	12629.8	12599.6	12371.7	12135.6	11864.6	11777.6	11959.8	11983.6	12457.8	12019.3	7854.2
42.5°	13406.2	13400.7	13358.6	13389.7	13112.3	12936.5	13079.3	13098.6	13508.7	12849.6	8127.0
45°	13816.2	13825.4	14029.6	14481.7	14584.3	14456.1	14526.6	14532.0	14709.7	13687.1	8376.8
47.5°	13487.6	13535.2	14051.5	15063.0	15902.4	16328.1	16211.0	16278.7	15874.0	14406.7	8572.8
50°	12207.0	12265.5	13144.3	14804.0	16517.6	18139.7	18078.4	18062.8	16813.3	14933.9	8678.9
52.5°	10620.6	10666.3	11391.3	13457.4	16066.3	19141.2	19704.1	19623.6	17648.2	15328.5	8699.1
55°	8204.8	8276.2	8971.0	10769.8	14241.0	18758.5	20899.6	20827.4	18408.9	15535.4	8675.3
57°	5833.0	5908.1	6598.2	8219.4	11979.9	17433.9	21018.7	21095.5	18819.9	15570.2	8701.9
57.5°	5205.0	5281.9	5965.7	7540.2	11275.1	16955.2	20916.1	21044.3	18894.0	15564.7	8716.5
60°	2620.8	2650.1	3085.8	4209.0	7127.4	13707.4	19578.7	19909.2	18960.8	15295.5	8779.6
62.5°	1629.5	1608.4	1594.6	1938.8	3467.6	9089.9	16818.8	17455.0	17682.0	14643.7	8626.8
65°	1432.6	1393.2	1242.2	1214.7	1531.5	4415.0	12665.6	13457.4	14949.5	13616.7	8262.5
67.5°	1345.6	1307.2	1137.0	1034.4	1035.3	1750.3	7863.4	8755.0	11645.8	11880.1	7402.9
70°	1255.9	1221.2	1061.9	941.0	881.5	969.5	3617.7	4294.2	7591.5	9338.1	6187.2
72.5°	1140.6	1116.8	965.7	841.3	778.1	726.0	1385.0	1635.8	4394.9	6271.5	4296.9
75°	1019.8	997.8	868.8	749.7	672.9	571.2	779.9	840.3	2232.6	3208.5	2115.5
77.5°	887.0	874.3	772.6	662.8	601.4	473.2	552.0	581.3	957.5	1375.9	1060.9
80°	705.7	730.5	675.6	590.4	533.7	379.0	390.9	410.1	557.4	671.9	602.3
82.5°	459.5	502.6	529.1	479.7	439.4	298.5	281.0	289.2	363.4	410.1	261.8
85°	191.3	215.1	347.8	314.0	292.0	217.9	188.5	192.3	225.2	233.4	107.1
87.5°	85.1	90.6	152.9	143.7	123.6	75.1	80.6	87.8	119.9	113.6	41.2
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°	5908.1	5908.1	5908.1	5908.1	5908.1	5908.1	5908.1	5908.1	5908.1	5908.1	5908.1
2.5°	5913.6	5836.6	5704.8	5559.3	5440.2	5345.0	5249.0	5183.0	5106.2	5064.9	5043.9
5°	5918.1	5767.0	5489.7	5205.0	4950.5	4718.0	4496.5	4326.2	4166.9	4080.9	4057.1
7.5°	5937.3	5710.3	5261.8	4793.1	4340.8	3928.1	3609.5	3409.9	3266.2	3202.1	3183.8
10°	5952.9	5643.5	4979.8	4286.0	3670.8	3252.4	3005.3	2893.6	2844.2	2835.9	2827.7
12.5°	5989.5	5574.8	4683.3	3756.8	3149.9	2860.7	2774.6	2767.3	2781.0	2801.2	2801.2
15°	6047.1	5507.1	4344.6	3302.8	2818.6	2717.0	2734.3	2774.6	2812.2	2843.3	2847.8
17.5°	6089.2	5423.7	3980.2	2939.4	2641.9	2669.3	2731.6	2788.3	2826.8	2857.0	2859.8
20°	6119.5	5294.7	3591.1	2662.0	2540.2	2625.4	2703.2	2753.6	2780.1	2810.3	2814.9
22.5°	6104.0	5121.7	3246.1	2463.4	2457.9	2561.3	2635.4	2695.9	2675.8	2646.4	2665.6
25°	6028.9	4883.7	2890.9	2315.1	2370.9	2475.2	2566.8	2526.5	2458.8	2446.0	2453.3
27.5°	5895.2	4579.8	2562.2	2177.8	2270.2	2395.7	2390.2	2349.8	2326.1	2309.6	2319.6
30°	5751.5	4250.3	2274.7	2057.9	2158.5	2262.0	2240.9	2240.0	2216.2	2189.7	2202.5
32.5°	5609.6	3918.8	2046.9	1959.0	2074.3	2088.1	2133.8	2147.6	2100.8	2045.0	2041.4
35°	5486.1	3605.8	1873.8	1869.2	1972.7	1974.5	2041.4	2022.1	1905.9	1848.2	1848.2
37.5°	5393.6	3293.7	1742.0	1788.7	1839.1	1886.7	1920.5	1840.9	1821.6	1789.6	1788.7
40°	5353.3	3019.1	1659.6	1727.4	1744.8	1805.2	1718.2	1749.4	1758.5	1742.0	1742.0
42.5°	5311.2	2780.1	1588.2	1680.7	1677.9	1669.7	1625.7	1666.1	1702.7	1703.6	1700.8
45°	5269.1	2574.1	1525.0	1580.9	1619.3	1530.5	1538.8	1581.9	1633.1	1651.4	1651.4
47.5°	5222.4	2411.2	1467.4	1475.7	1535.1	1475.7	1469.2	1502.2	1562.6	1591.9	1598.3
50°	5119.9	2264.7	1401.5	1383.2	1399.7	1419.8	1425.3	1440.8	1507.7	1554.4	1565.4
52.5°	4978.0	2133.8	1317.3	1298.0	1298.0	1374.0	1399.7	1404.2	1460.9	1516.8	1527.8
55°	4859.9	2050.5	1230.3	1226.7	1223.0	1325.5	1369.5	1376.7	1416.1	1460.1	1465.6
57°	4868.2	2044.1	1163.5	1167.1	1166.2	1276.0	1341.1	1356.6	1376.7	1414.3	1420.7
57.5°	4872.7	2048.7	1148.9	1150.6	1149.7	1262.3	1332.9	1350.2	1365.7	1405.1	1411.6
60°	4941.4	2060.6	1089.4	1069.2	1073.8	1189.1	1286.2	1308.1	1318.1	1370.4	1378.6
62.5°	4839.8	2007.5	1041.7	993.2	993.2	1112.2	1221.2	1255.9	1271.5	1342.0	1355.7
65°	4545.0	1858.3	985.9	907.1	916.4	1035.3	1143.4	1200.1	1223.9	1311.8	1326.4
67.5°	4090.1	1685.3	926.4	830.3	839.4	954.7	1062.8	1124.1	1161.6	1278.8	1290.8
70°	3497.8	1473.8	845.8	748.8	759.8	866.9	967.6	1037.2	1093.0	1247.7	1251.3
72.5°	2578.7	1208.3	733.2	659.1	671.0	764.3	871.5	952.0	1027.1	1169.9	1168.1
75°	1533.3	944.7	608.8	568.4	576.7	663.6	784.5	882.5	995.1	1139.7	1157.1
77.5°	930.1	711.2	496.1	476.0	486.1	574.9	722.2	826.7	981.3	1074.7	1069.2
80°	562.1	508.1	396.4	383.5	393.6	491.6	668.3	784.5	857.8	918.1	918.1
82.5°	293.8	310.3	291.1	281.0	294.7	399.1	607.8	684.7	758.0	650.9	607.8
85°	119.9	162.0	176.7	175.8	184.0	276.5	524.6	585.9	488.8	464.1	475.1
87.5°	40.2	68.7	86.1	74.2	77.8	173.9	363.4	282.8	335.9	234.4	222.5
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)