

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: P383190

Luminaire Tested: **GLEON-SA5B-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383190
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-SA5B-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27296.2 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

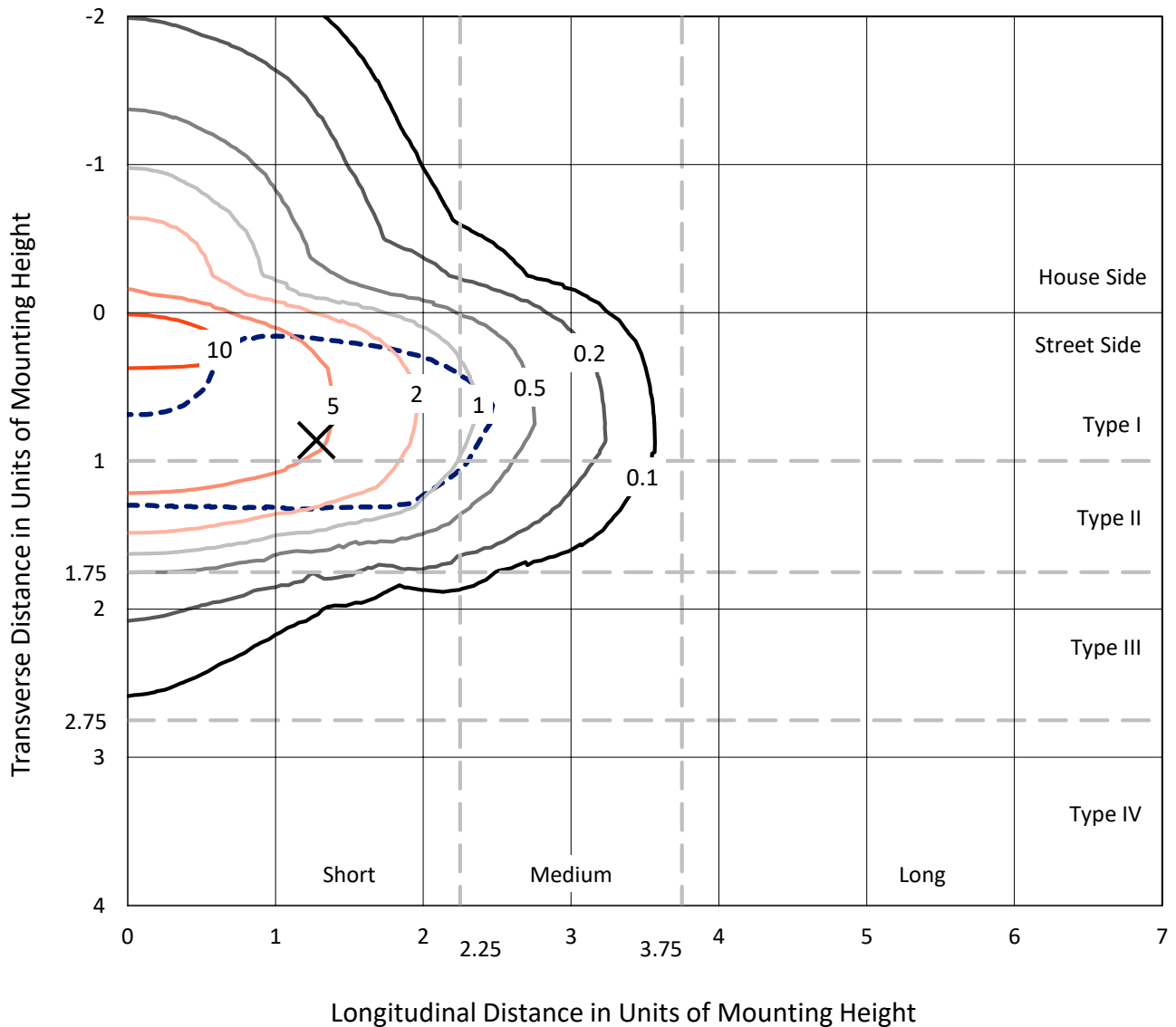
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

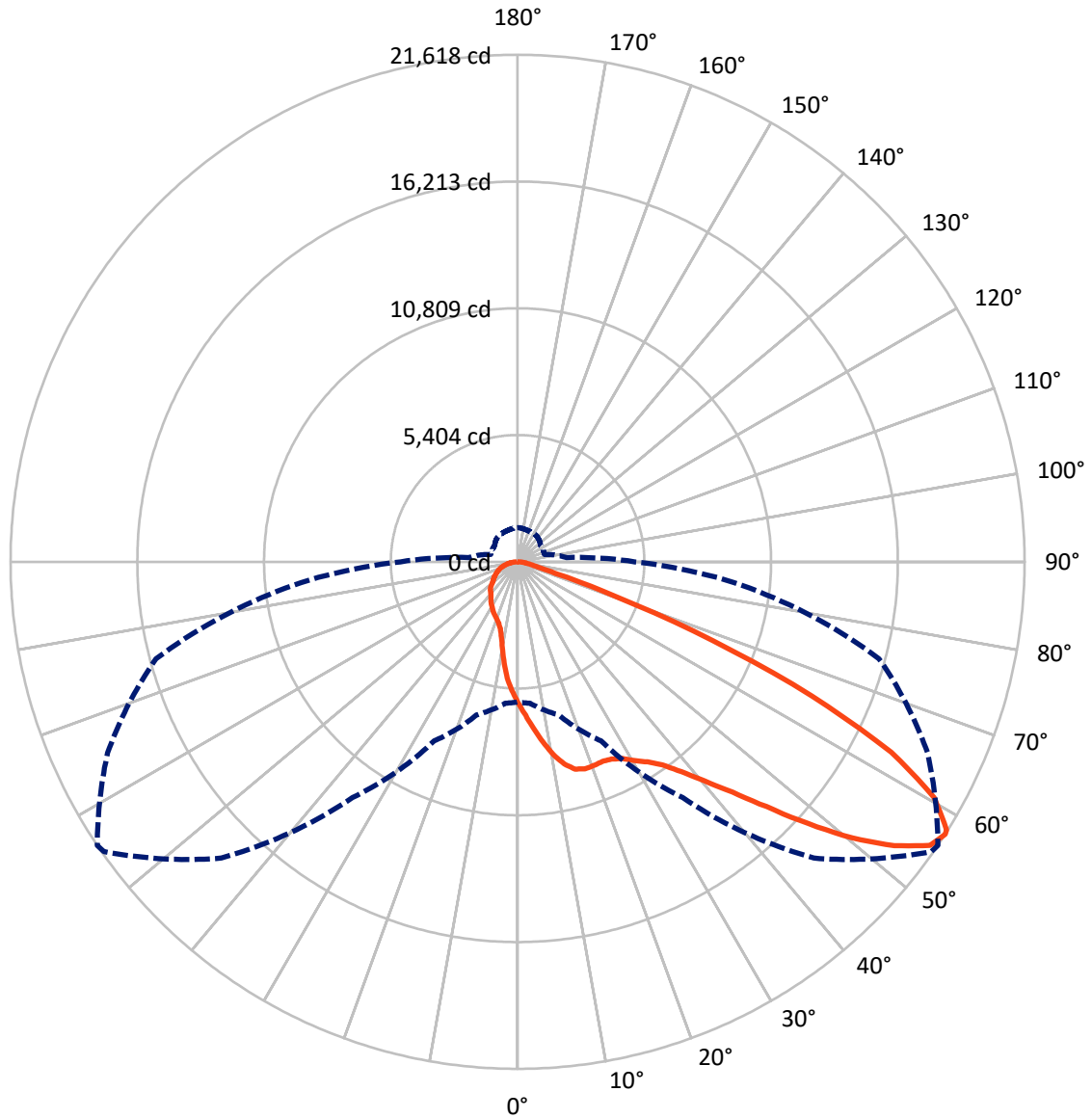
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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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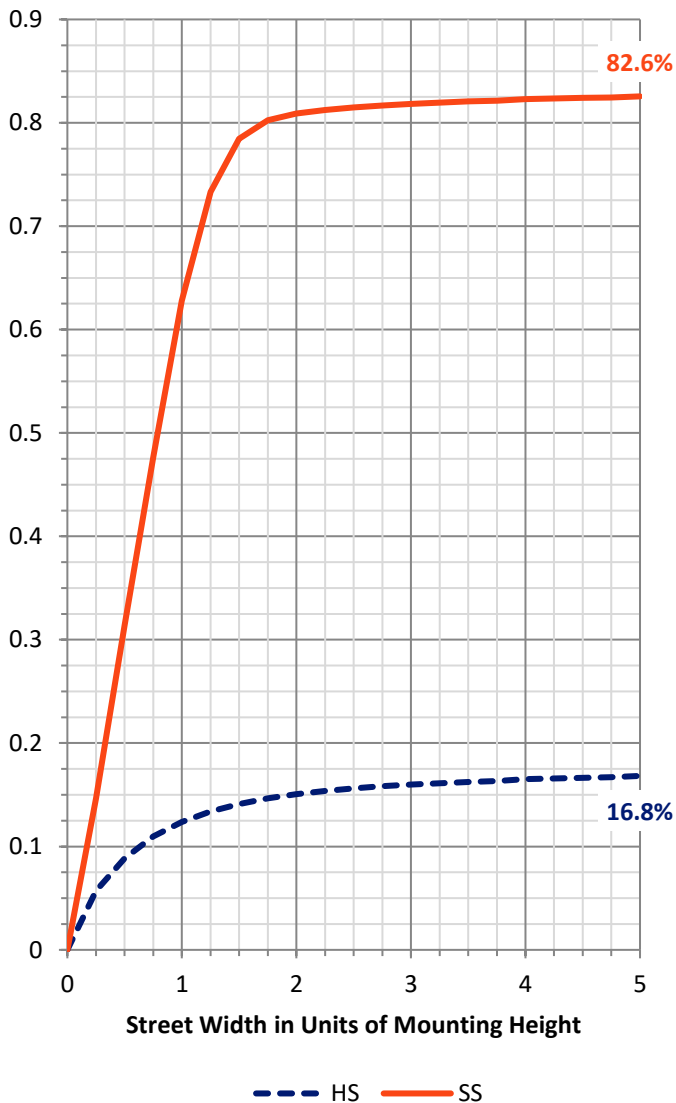
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4705.3	0.0	4705.3
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	22590.9	0.0	22590.9
	% Fixture	82.8	0.0	82.8
Total	Lumens	27296.2	0.0	27296.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.3	2.1
10°-20°	1635.1	6.0
20°-30°	2663.3	9.8
30°-40°	3981.3	14.6
40°-50°	6038.8	22.1
50°-60°	6768.4	24.8
60°-70°	3997.7	14.6
70°-80°	1309.8	4.8
80°-90°	323.6	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°	27296.2	100.0
0°-180°	27296.2	100.0

Coefficient of Utilization



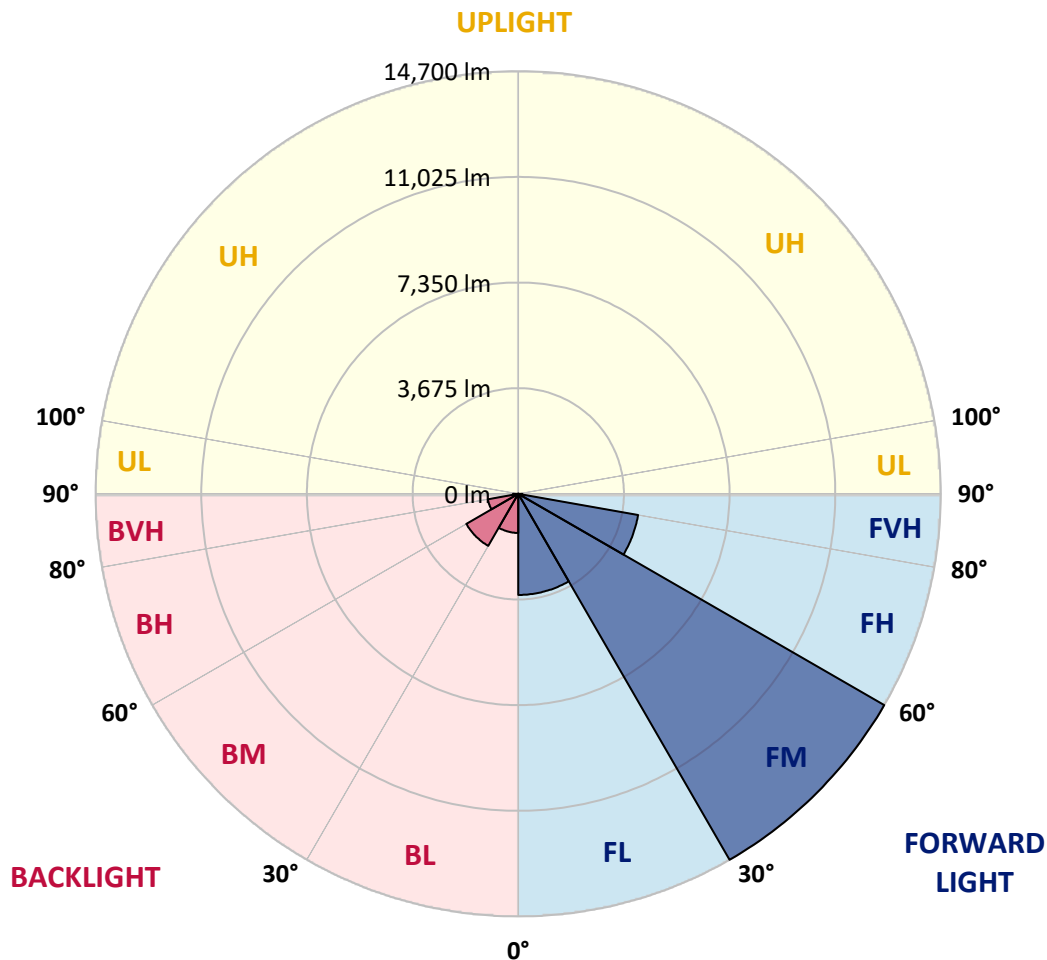
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3516.2	12.9			
FM (30°-60°)	14699.9	53.9			
FH (60°-80°)	4232.4	15.5			G2/5000
FVH (80°-90°)	142.5	0.5			G2/225
BL (0°-30°)	1360.5	5.0	B3/2500		
BM (30°-60°)	2088.5	7.7	B2/2500		
BH (60°-80°)	1075.1	3.9	B3/2500		G3/2500
BVH (80°-90°)	181.1	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°	6054.3	6054.3	6054.3	6054.3	6054.3	6054.3	6054.3	6054.3	6054.3	6054.3	6054.3
2.5°	6952.0	7015.9	6987.7	6890.2	6815.1	6709.1	6590.9	6555.3	6430.5	6290.7	6122.8
5°	8052.4	8020.5	7974.5	7822.6	7662.2	7475.5	7179.1	7132.2	6854.5	6538.3	6204.4
7.5°	8679.0	8676.2	8649.0	8559.9	8413.6	8169.7	7812.2	7756.9	7337.6	6829.2	6311.3
10°	8588.0	8581.5	8626.5	8719.4	8763.4	8712.9	8411.7	8356.4	7841.4	7150.9	6435.2
12.5°	8071.2	8074.9	8147.1	8342.3	8607.8	8926.7	8877.9	8850.7	8363.9	7514.9	6585.3
15°	7668.8	7677.2	7734.5	7904.2	8217.6	8796.3	9161.2	9170.6	8869.5	7916.4	6760.7
17.5°	7492.3	7510.2	7536.5	7655.6	7942.7	8536.4	9228.7	9279.4	9312.2	8332.9	6929.5
20°	7548.7	7565.6	7573.1	7649.0	7884.5	8378.9	9181.9	9272.8	9651.9	8725.1	7098.4
22.5°	7801.1	7811.3	7816.1	7835.7	8018.7	8423.9	9150.9	9246.5	9897.6	9076.8	7226.0
25°	8219.4	8211.9	8181.9	8156.5	8279.4	8602.1	9222.2	9313.1	10097.4	9395.8	7309.5
27.5°	8720.3	8710.9	8652.8	8583.4	8653.7	8879.8	9427.6	9499.8	10276.6	9694.1	7351.7
30°	9321.6	9297.2	9187.5	9104.9	9132.1	9296.3	9766.3	9831.9	10553.3	10032.7	7392.9
32.5°	10016.7	9990.5	9831.9	9695.0	9695.0	9831.9	10115.2	10169.6	10787.9	10415.4	7459.6
35°	10887.3	10854.5	10648.1	10418.2	10353.5	10422.9	10590.9	10629.3	11210.0	10897.6	7580.6
37.5°	11913.6	11869.4	11602.1	11294.4	11152.8	11149.0	11270.0	11348.8	11884.4	11530.8	7786.0
40°	12942.5	12911.6	12678.1	12436.1	12158.4	12069.2	12255.9	12280.3	12766.2	12316.9	8048.7
42.5°	13738.1	13732.4	13689.3	13721.2	13436.9	13256.9	13403.2	13422.9	13843.2	13167.7	8328.2
45°	14158.3	14167.7	14376.9	14840.3	14945.4	14814.0	14886.3	14891.9	15073.9	14026.0	8584.3
47.5°	13821.6	13870.4	14399.4	15436.0	16296.2	16732.4	16612.4	16681.8	16267.1	14763.4	8785.1
50°	12509.2	12569.3	13469.8	15170.5	16926.6	18588.8	18526.0	18510.0	17229.6	15303.7	8893.9
52.5°	10883.6	10930.4	11673.4	13790.6	16464.1	19615.1	20192.0	20109.5	18085.1	15708.0	8914.5
55°	8408.0	8481.1	9193.1	11036.4	14593.6	19223.0	21417.1	21343.1	18864.7	15920.1	8890.1
57°	5977.4	6054.3	6761.6	8423.0	12276.6	17865.6	21539.1	21617.9	19285.8	15955.6	8917.3
57.5°	5333.9	5412.7	6113.5	7726.9	11554.3	17374.9	21434.1	21565.3	19361.8	15950.1	8932.3
60°	2685.7	2715.7	3162.2	4313.3	7303.8	14046.7	20063.5	20402.2	19430.3	15674.2	8997.1
62.5°	1669.8	1648.2	1634.1	1986.8	3553.4	9315.1	17235.2	17887.2	18119.8	15006.4	8840.4
65°	1468.1	1427.8	1273.0	1244.8	1569.4	4524.3	12979.2	13790.6	15319.7	13953.8	8467.0
67.5°	1379.0	1339.6	1165.1	1060.0	1060.9	1793.6	8058.1	8971.7	11934.1	12174.3	7586.2
70°	1287.0	1251.3	1088.1	964.3	903.3	993.4	3707.3	4400.5	7779.4	9569.3	6340.4
72.5°	1168.8	1144.4	989.7	862.1	797.4	743.9	1419.3	1676.3	4503.7	6426.7	4403.3
75°	1045.0	1022.5	890.2	768.2	689.4	585.4	799.3	861.1	2288.0	3288.0	2167.9
77.5°	909.0	895.9	791.7	679.2	616.3	485.0	565.6	595.6	981.2	1409.9	1087.2
80°	723.3	748.6	692.3	605.0	546.9	388.4	400.6	420.2	571.3	688.5	617.2
82.5°	470.9	515.0	542.2	491.6	450.3	305.8	288.0	296.4	372.4	420.2	268.3
85°	196.1	220.4	356.5	321.8	299.2	223.3	193.2	197.0	230.7	239.2	109.7
87.5°	87.3	92.9	156.7	147.3	126.6	76.9	82.5	90.1	122.9	116.4	42.2
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°	6054.3	6054.3	6054.3	6054.3	6054.3	6054.3	6054.3	6054.3	6054.3	6054.3	6054.3
2.5°	6060.0	5981.2	5846.1	5696.9	5574.9	5477.4	5378.9	5311.4	5232.6	5190.4	5168.8
5°	6064.7	5909.8	5625.6	5333.9	5073.1	4834.8	4607.8	4433.3	4270.1	4181.9	4157.5
7.5°	6084.3	5851.7	5392.1	4911.8	4448.3	4025.3	3698.8	3494.3	3347.1	3281.4	3262.7
10°	6100.3	5783.2	5103.1	4392.1	3761.7	3333.0	3079.7	2965.2	2914.6	2906.1	2897.7
12.5°	6137.8	5712.9	4799.1	3849.8	3227.9	2931.5	2843.3	2835.8	2849.9	2870.5	2870.5
15°	6196.9	5643.4	4452.1	3384.6	2888.4	2784.2	2802.0	2843.3	2881.7	2913.7	2918.4
17.5°	6240.1	5558.1	4078.8	3012.2	2707.3	2735.4	2799.2	2857.3	2896.7	2927.8	2930.6
20°	6271.0	5425.8	3680.1	2727.9	2603.1	2690.4	2770.1	2821.8	2849.0	2879.9	2884.5
22.5°	6255.1	5248.5	3326.4	2524.4	2518.7	2624.7	2700.7	2762.6	2742.0	2712.0	2731.7
25°	6178.1	5004.6	2962.4	2372.4	2429.6	2536.5	2630.3	2589.1	2519.6	2506.5	2514.1
27.5°	6041.2	4693.1	2625.7	2231.7	2326.4	2454.9	2449.3	2408.1	2383.6	2366.8	2377.1
30°	5893.9	4355.5	2331.1	2108.7	2212.0	2318.0	2296.4	2295.4	2271.1	2243.9	2257.0
32.5°	5748.5	4015.9	2097.6	2007.5	2125.7	2139.8	2186.6	2200.7	2152.9	2095.6	2091.9
35°	5621.9	3695.1	1920.2	1915.5	2021.6	2023.4	2091.9	2072.2	1953.1	1893.9	1893.9
37.5°	5527.2	3375.2	1785.1	1833.0	1884.6	1933.3	1968.1	1886.5	1866.7	1833.9	1833.0
40°	5485.9	3093.8	1700.7	1770.1	1788.0	1849.9	1760.7	1792.7	1802.1	1785.1	1785.1
42.5°	5442.7	2849.0	1627.6	1722.3	1719.5	1711.1	1666.0	1707.2	1744.8	1745.7	1742.9
45°	5399.5	2637.9	1562.9	1620.1	1659.5	1568.4	1576.9	1621.0	1673.5	1692.2	1692.2
47.5°	5351.7	2470.9	1503.7	1512.2	1573.1	1512.2	1505.6	1539.4	1601.3	1631.3	1637.8
50°	5246.7	2320.8	1436.2	1417.4	1434.3	1455.0	1460.6	1476.5	1545.0	1592.9	1604.1
52.5°	5101.2	2186.6	1349.9	1330.2	1330.2	1408.0	1434.3	1439.0	1497.2	1554.4	1565.7
55°	4980.2	2101.3	1260.8	1257.0	1253.3	1358.3	1403.4	1410.8	1451.2	1496.3	1501.8
57°	4988.7	2094.7	1192.3	1196.0	1195.1	1307.7	1374.3	1390.2	1410.8	1449.3	1455.9
57.5°	4993.4	2099.4	1177.3	1179.2	1178.2	1293.6	1365.8	1383.6	1399.7	1440.0	1446.5
60°	5063.7	2111.6	1116.3	1095.7	1100.3	1218.6	1318.0	1340.5	1350.8	1404.3	1412.7
62.5°	4959.6	2057.2	1067.6	1017.8	1017.8	1139.7	1251.3	1287.0	1303.0	1375.2	1389.3
65°	4657.6	1904.3	1010.3	929.6	939.0	1060.9	1171.6	1229.8	1254.2	1344.2	1359.3
67.5°	4191.3	1727.0	949.3	850.9	860.2	978.4	1089.1	1152.0	1190.4	1310.5	1322.7
70°	3584.4	1510.3	866.8	767.3	778.6	888.3	991.5	1062.8	1120.1	1278.5	1282.4
72.5°	2642.5	1238.2	751.4	675.4	687.6	783.2	893.1	975.6	1052.6	1198.9	1196.9
75°	1571.2	968.1	623.9	582.6	591.0	680.1	803.9	904.3	1019.7	1167.9	1185.8
77.5°	953.1	728.8	508.4	487.8	498.1	589.1	740.1	847.1	1005.6	1101.3	1095.7
80°	576.0	520.6	406.2	393.0	403.4	503.8	684.8	803.9	879.0	940.9	940.9
82.5°	301.1	318.0	298.3	288.0	302.1	409.0	622.9	701.6	776.7	667.0	622.9
85°	122.9	166.0	181.1	180.1	188.5	283.3	537.5	600.4	500.9	475.6	486.8
87.5°	41.3	70.3	88.2	76.0	79.7	178.2	372.4	289.9	344.3	240.2	227.9
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)