

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: P321090

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321090
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-SA6C-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31904 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

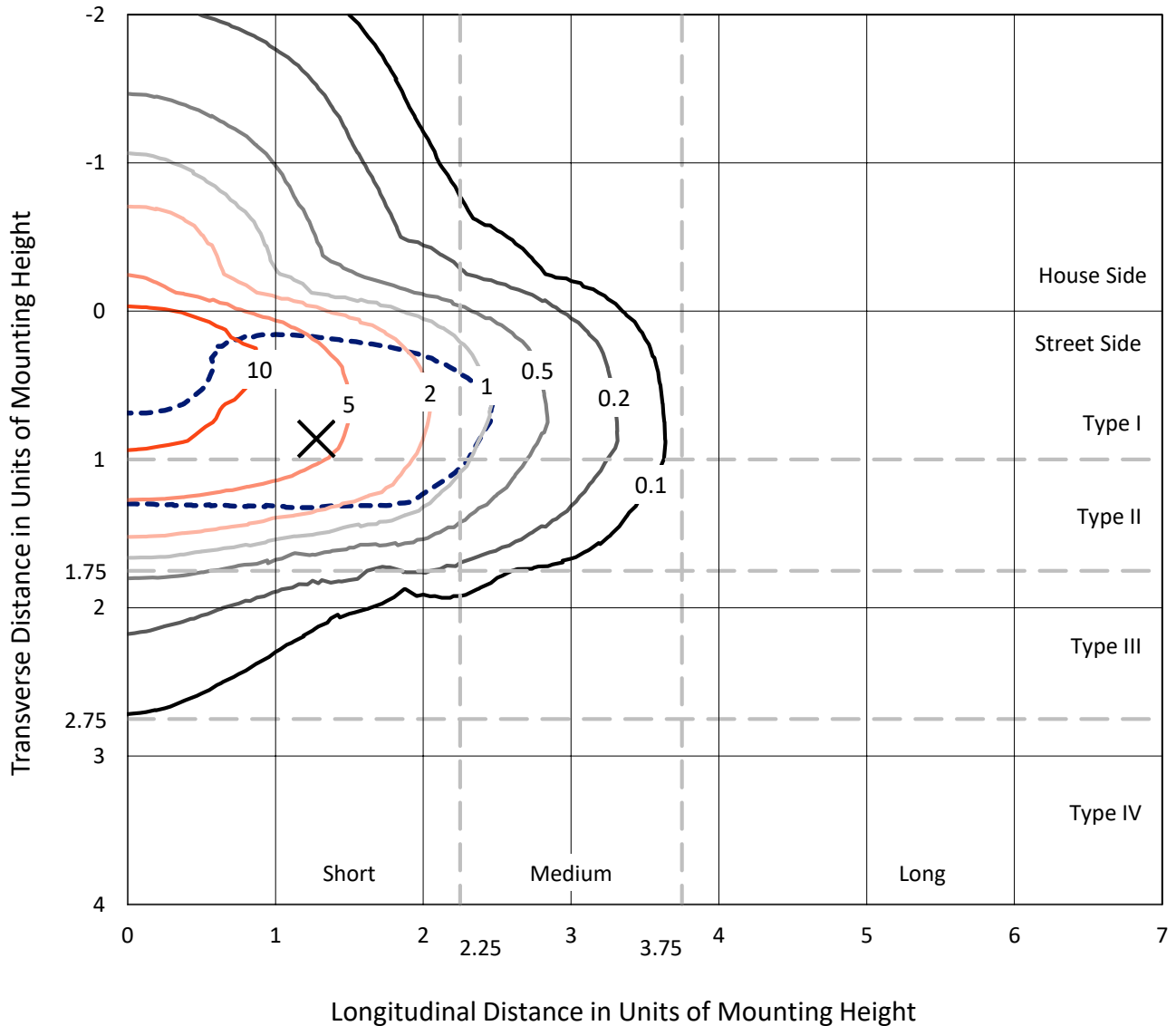
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

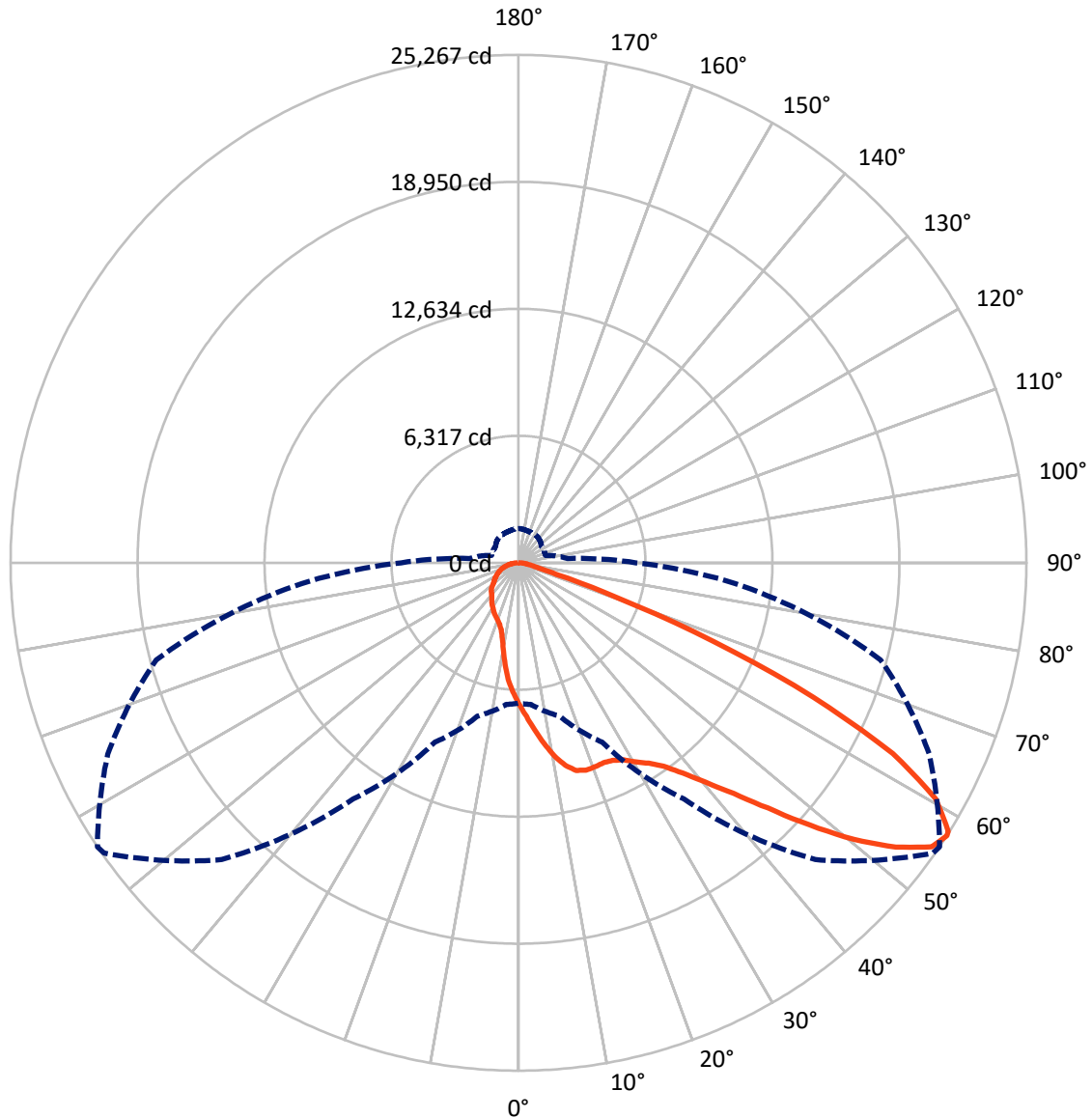
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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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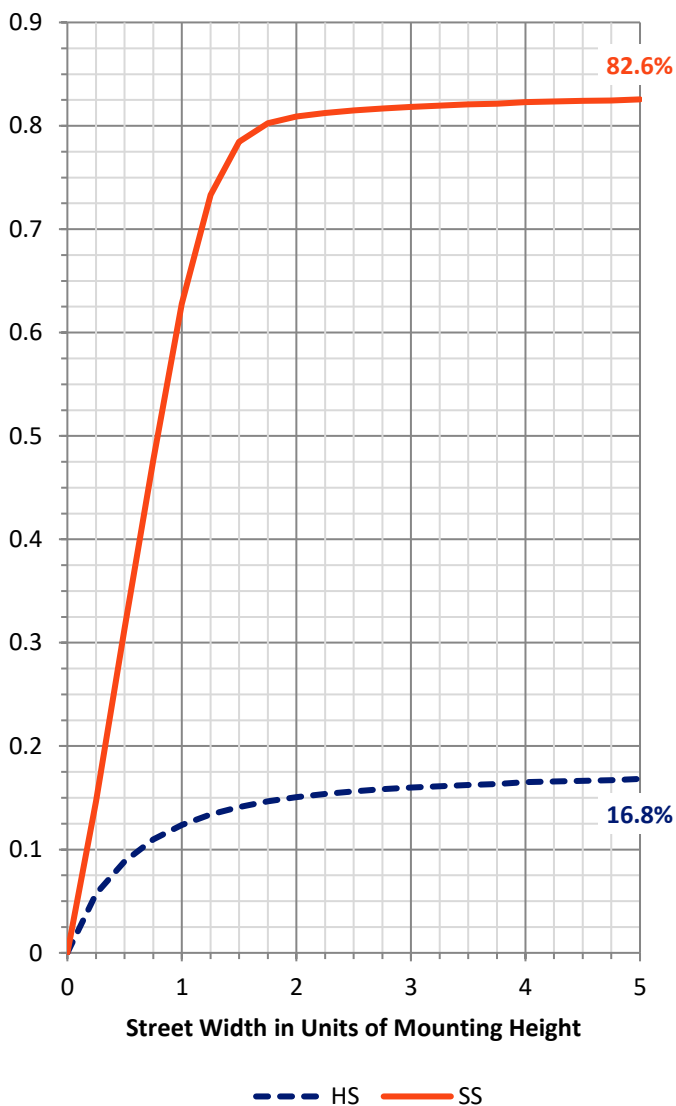
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5499.6	0.0	5499.6
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	26404.4	0.0	26404.4
	% Fixture	82.8	0.0	82.8
Total	Lumens	31904.0	0.0	31904.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	676.0	2.1
10°-20°	1911.1	6.0
20°-30°	3112.8	9.8
30°-40°	4653.3	14.6
40°-50°	7058.1	22.1
50°-60°	7910.9	24.8
60°-70°	4672.5	14.6
70°-80°	1530.9	4.8
80°-90°	378.2	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°	31904.0	100.0
0°-180°	31904.0	100.0

Coefficient of Utilization



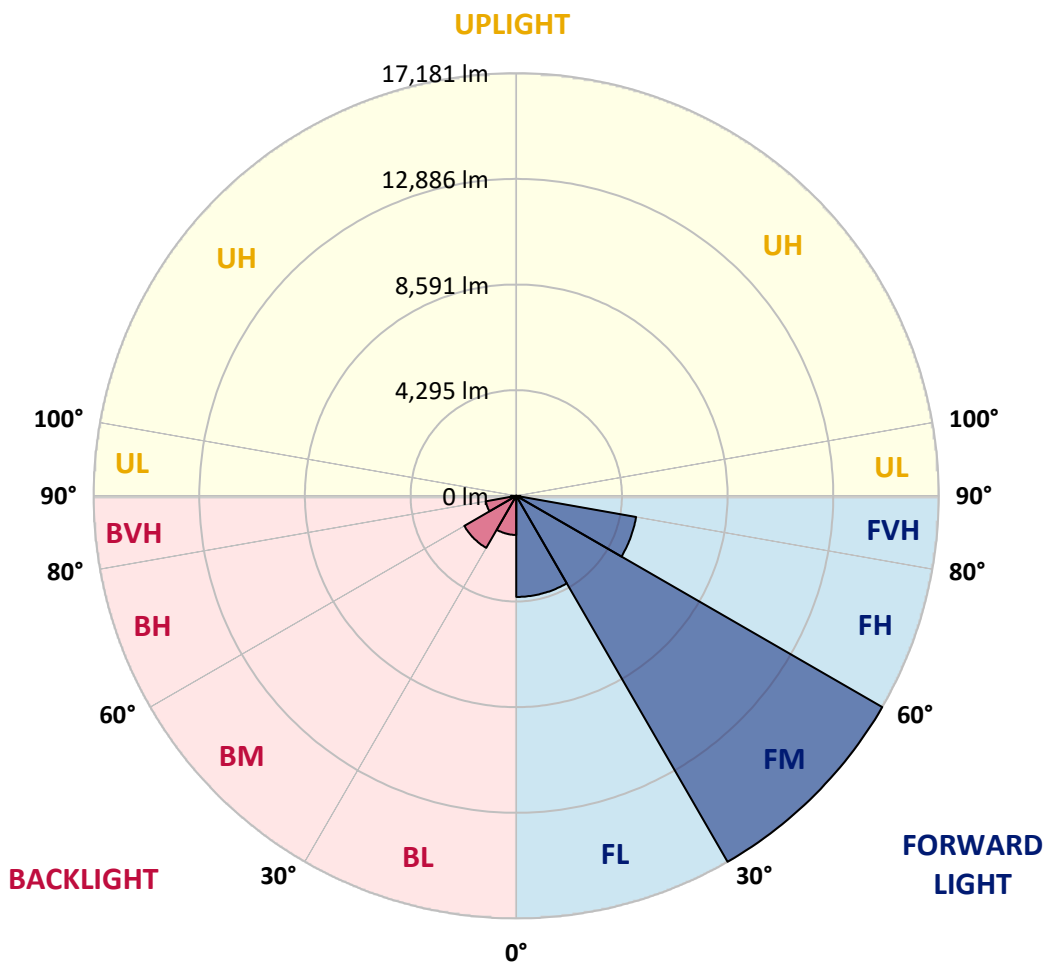
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4109.7	12.9			
FM (30°-60°)	17181.4	53.9			
FH (60°-80°)	4946.8	15.5			G2/5000
FVH (80°-90°)	166.5	0.5			G2/225
BL (0°-30°)	1590.2	5.0	B3/2500		
BM (30°-60°)	2441.1	7.7	B2/2500		
BH (60°-80°)	1256.6	3.9	B3/2500		G3/2500
BVH (80°-90°)	211.7	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°	7076.3	7076.3	7076.3	7076.3	7076.3	7076.3	7076.3	7076.3	7076.3	7076.3	7076.3
2.5°	8125.6	8200.2	8167.3	8053.3	7965.5	7841.6	7703.5	7661.8	7516.0	7352.6	7156.4
5°	9411.7	9374.4	9320.7	9143.1	8955.6	8737.4	8391.0	8336.1	8011.6	7642.1	7251.8
7.5°	10144.1	10140.8	10109.1	10004.9	9833.8	9548.8	9131.0	9066.4	8576.2	7982.0	7376.8
10°	10037.8	10030.1	10082.7	10191.3	10242.8	10183.6	9831.7	9767.0	9165.0	8358.1	7521.5
12.5°	9433.7	9438.0	9522.5	9750.5	10060.8	10433.6	10376.6	10344.8	9775.7	8783.5	7696.9
15°	8963.3	8973.2	9040.0	9238.5	9604.7	10281.2	10707.7	10718.7	10366.7	9252.7	7901.9
17.5°	8757.2	8778.0	8808.7	8947.9	9283.4	9977.5	10786.6	10845.9	10884.2	9739.6	8099.3
20°	8822.9	8842.7	8851.5	8940.3	9215.5	9793.3	10731.8	10838.2	11281.1	10197.9	8296.7
22.5°	9117.9	9129.9	9135.4	9158.5	9372.3	9845.9	10695.6	10807.5	11568.4	10609.0	8445.8
25°	9606.9	9598.1	9563.0	9533.4	9677.1	10054.2	10779.0	10885.3	11801.9	10981.8	8543.4
27.5°	10192.4	10181.4	10113.4	10032.3	10114.5	10378.8	11019.1	11103.5	12011.4	11330.5	8592.7
30°	10895.2	10866.7	10738.4	10641.9	10673.7	10865.6	11414.9	11491.6	12334.8	11726.3	8640.9
32.5°	11707.6	11676.9	11491.6	11331.6	11331.6	11491.6	11822.8	11886.4	12608.9	12173.6	8718.8
35°	12725.1	12686.8	12445.5	12176.9	12101.3	12182.4	12378.7	12423.6	13102.3	12737.2	8860.2
37.5°	13924.6	13873.1	13560.6	13201.0	13035.4	13031.0	13172.5	13264.6	13890.6	13477.3	9100.3
40°	15127.4	15091.2	14818.2	14535.3	14210.8	14106.6	14324.8	14353.3	14921.3	14396.1	9407.3
42.5°	16057.2	16050.6	16000.2	16037.4	15705.2	15494.7	15665.7	15688.8	16180.0	15390.5	9734.1
45°	16548.4	16559.3	16803.8	17345.5	17468.3	17314.8	17399.2	17405.8	17618.5	16393.8	10033.4
47.5°	16154.7	16211.8	16830.1	18041.7	19047.1	19557.0	19416.6	19497.8	19013.1	17255.6	10268.0
50°	14620.8	14691.0	15743.6	17731.4	19783.9	21726.8	21653.3	21634.7	20138.1	17887.1	10395.2
52.5°	12720.7	12775.6	13643.9	16118.6	19243.4	22926.3	23600.6	23504.1	21138.0	18359.7	10419.3
55°	9827.3	9912.8	10745.0	12899.5	17057.1	22468.0	25032.5	24945.9	22049.1	18607.5	10390.8
57°	6986.4	7076.3	7903.0	9844.8	14348.9	20881.4	25175.0	25267.1	22541.4	18649.1	10422.6
57.5°	6234.3	6326.4	7145.4	9031.3	13504.7	20308.0	25052.2	25205.7	22630.2	18642.5	10440.2
60°	3139.1	3174.2	3696.1	5041.4	8536.8	16417.9	23450.4	23846.2	22710.3	18320.2	10515.8
62.5°	1951.6	1926.4	1910.0	2322.2	4153.3	10887.5	20144.6	20906.7	21178.6	17539.5	10332.7
65°	1715.9	1668.8	1487.9	1455.0	1834.3	5288.1	15170.2	16118.6	17905.7	16309.3	9896.3
67.5°	1611.7	1565.7	1361.8	1239.0	1240.1	2096.4	9418.3	10486.2	13948.7	14229.4	8866.8
70°	1504.3	1462.6	1271.9	1127.1	1055.9	1161.1	4333.1	5143.3	9092.7	11184.6	7410.7
72.5°	1366.1	1337.6	1156.7	1007.6	932.0	869.5	1658.9	1959.3	5263.9	7511.6	5146.6
75°	1221.4	1195.1	1040.5	898.0	805.9	684.2	934.2	1006.5	2674.2	3843.0	2533.8
77.5°	1062.4	1047.1	925.4	793.8	720.4	566.9	661.1	696.2	1146.9	1647.9	1270.8
80°	845.3	874.9	809.2	707.2	639.2	453.9	468.2	491.2	667.7	804.8	721.4
82.5°	550.4	601.9	633.7	574.5	526.3	357.4	336.6	346.5	435.3	491.2	313.6
85°	229.2	257.7	416.6	376.1	349.8	260.9	225.9	230.2	269.7	279.6	128.3
87.5°	102.0	108.5	183.1	172.1	148.0	89.9	96.5	105.3	143.6	136.0	49.3
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°	7076.3	7076.3	7076.3	7076.3	7076.3	7076.3	7076.3	7076.3	7076.3	7076.3	7076.3
2.5°	7082.9	6990.8	6832.9	6658.6	6516.1	6402.0	6286.9	6208.0	6115.9	6066.5	6041.3
5°	7088.4	6907.5	6575.3	6234.3	5929.5	5651.0	5385.6	5181.7	4990.9	4887.9	4859.4
7.5°	7111.4	6839.5	6302.3	5740.9	5199.3	4704.8	4323.2	4084.2	3912.0	3835.3	3813.4
10°	7130.1	6759.5	5964.6	5133.5	4396.7	3895.6	3599.6	3465.8	3406.6	3396.7	3386.9
12.5°	7173.9	6677.2	5609.3	4499.7	3772.8	3426.3	3323.3	3314.5	3330.9	3355.1	3355.1
15°	7243.0	6596.1	5203.6	3955.9	3375.9	3254.2	3275.0	3323.3	3368.2	3405.5	3411.0
17.5°	7293.4	6496.3	4767.3	3520.6	3164.3	3197.2	3271.7	3339.7	3385.8	3421.9	3425.2
20°	7329.6	6341.7	4301.3	3188.4	3042.6	3144.6	3237.7	3298.1	3329.8	3366.0	3371.5
22.5°	7311.0	6134.5	3887.9	2950.5	2943.9	3067.8	3156.6	3229.0	3204.9	3169.8	3192.8
25°	7221.1	5849.4	3462.5	2772.9	2839.7	2964.7	3074.4	3026.1	2945.0	2929.7	2938.4
27.5°	7061.0	5485.4	3068.9	2608.4	2719.1	2869.3	2862.8	2814.5	2786.0	2766.3	2778.3
30°	6888.8	5090.7	2724.6	2464.8	2585.4	2709.3	2684.1	2683.0	2654.4	2622.7	2638.0
32.5°	6718.9	4693.8	2451.6	2346.4	2484.5	2500.9	2555.8	2572.2	2516.3	2449.4	2445.0
35°	6570.9	4318.8	2244.4	2238.9	2362.8	2365.0	2445.0	2422.0	2282.8	2213.7	2213.7
37.5°	6460.1	3944.9	2086.5	2142.4	2202.7	2259.7	2300.3	2204.9	2181.9	2143.5	2142.4
40°	6411.9	3616.0	1987.8	2069.0	2089.8	2162.2	2058.0	2095.3	2106.2	2086.5	2086.5
42.5°	6361.5	3329.8	1902.3	2013.0	2009.7	1999.9	1947.3	1995.5	2039.4	2040.4	2037.2
45°	6311.0	3083.2	1826.6	1893.5	1939.6	1833.2	1843.1	1894.6	1956.0	1978.0	1978.0
47.5°	6255.1	2888.0	1757.6	1767.4	1838.7	1767.4	1759.8	1799.2	1871.6	1906.7	1914.4
50°	6132.3	2712.6	1678.6	1656.7	1676.4	1700.6	1707.1	1725.8	1805.8	1861.7	1874.9
52.5°	5962.4	2555.8	1577.8	1554.7	1554.7	1645.7	1676.4	1681.9	1749.9	1816.8	1829.9
55°	5820.9	2456.0	1473.6	1469.2	1464.8	1587.6	1640.3	1649.0	1696.2	1748.8	1755.4
57°	5830.8	2448.3	1393.6	1397.9	1396.8	1528.4	1606.3	1624.9	1649.0	1694.0	1701.7
57.5°	5836.3	2453.8	1376.0	1378.2	1377.1	1512.0	1596.4	1617.2	1635.9	1683.0	1690.7
60°	5918.5	2468.1	1304.7	1280.6	1286.1	1424.3	1540.5	1566.8	1578.9	1641.4	1651.2
62.5°	5796.8	2404.5	1247.7	1189.6	1189.6	1332.2	1462.6	1504.3	1522.9	1607.4	1623.8
65°	5443.8	2225.7	1180.9	1086.6	1097.5	1240.1	1369.4	1437.4	1465.9	1571.2	1588.7
67.5°	4898.8	2018.5	1109.6	994.5	1005.4	1143.6	1273.0	1346.4	1391.4	1531.7	1546.0
70°	4189.4	1765.2	1013.1	896.9	910.0	1038.3	1158.9	1242.3	1309.1	1494.4	1498.8
72.5°	3088.6	1447.3	878.2	789.4	803.7	915.5	1043.8	1140.3	1230.2	1401.2	1399.0
75°	1836.5	1131.5	729.1	680.9	690.7	794.9	939.6	1057.0	1191.8	1365.1	1385.9
77.5°	1114.0	851.9	594.3	570.1	582.2	688.6	865.1	990.1	1175.4	1287.2	1280.6
80°	673.2	608.5	474.8	459.4	471.5	588.8	800.4	939.6	1027.4	1099.7	1099.7
82.5°	352.0	371.7	348.7	336.6	353.0	478.0	728.0	820.1	907.8	779.6	728.0
85°	143.6	194.1	211.6	210.5	220.4	331.1	628.3	701.7	585.5	555.9	569.0
87.5°	48.2	82.2	103.1	88.8	93.2	208.3	435.3	338.8	402.4	280.7	266.4
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)