

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: P383134

Luminaire Tested: **GLEON-SA4D-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383134
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-SA4D-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29912 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

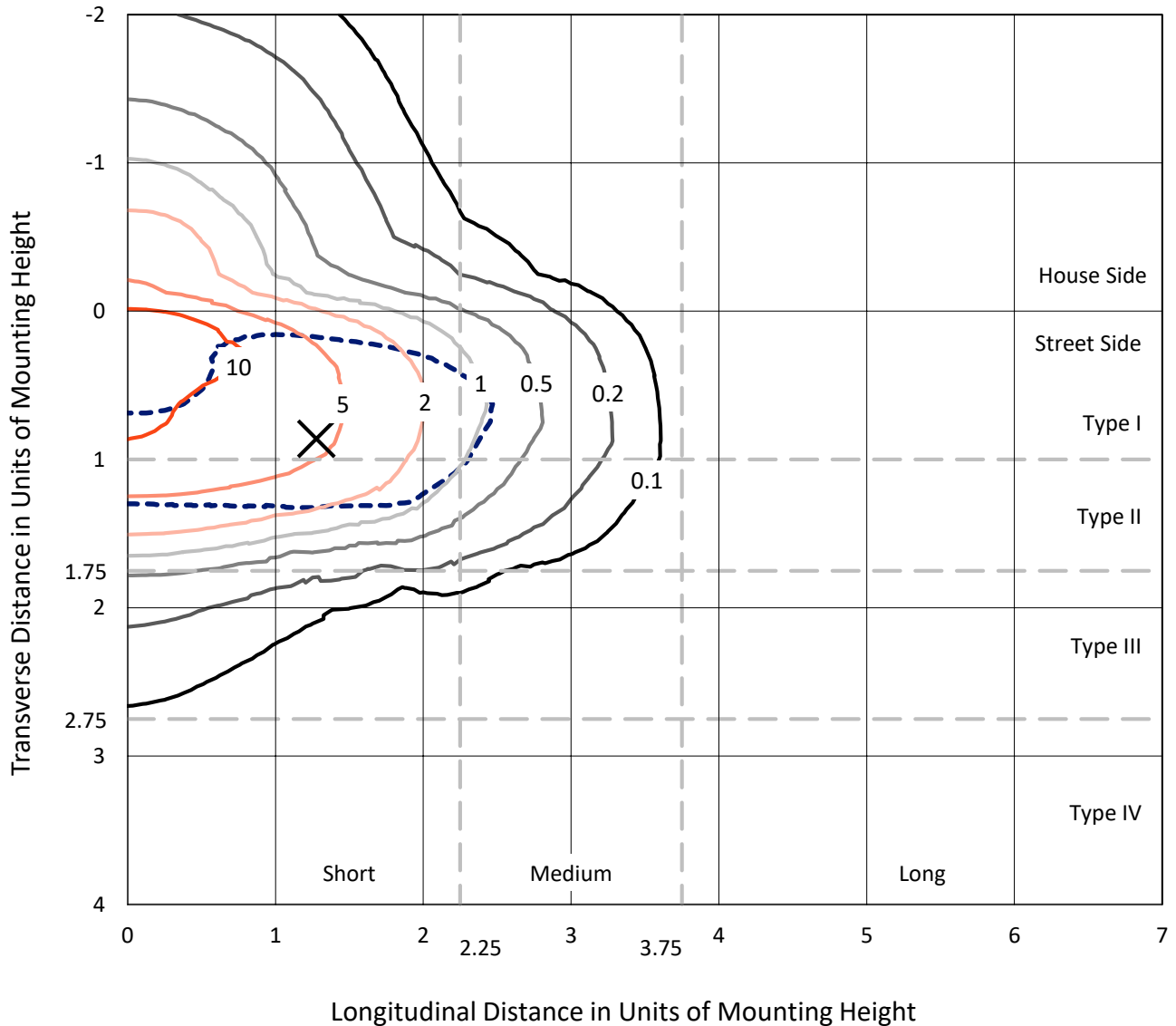
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

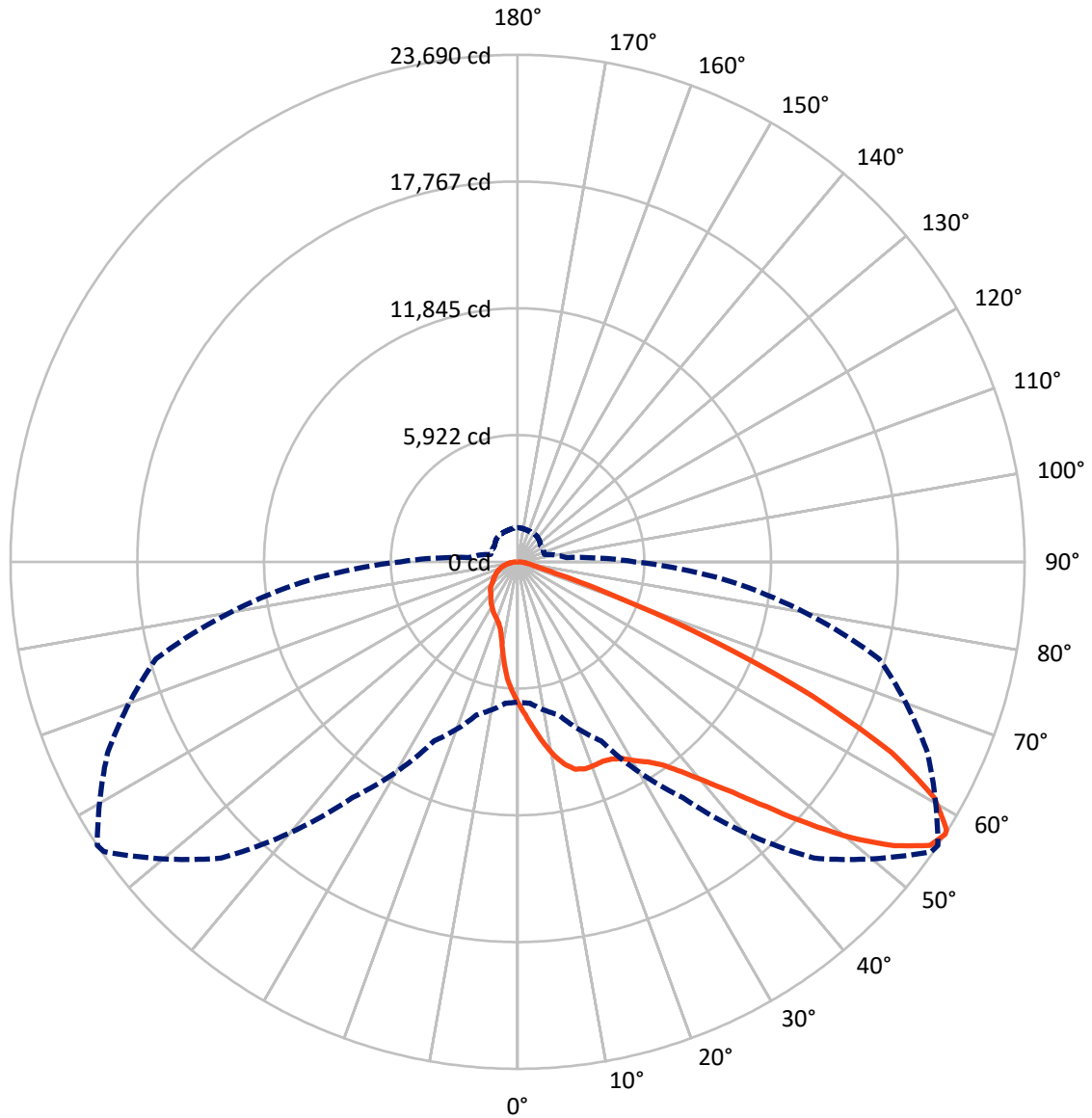
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 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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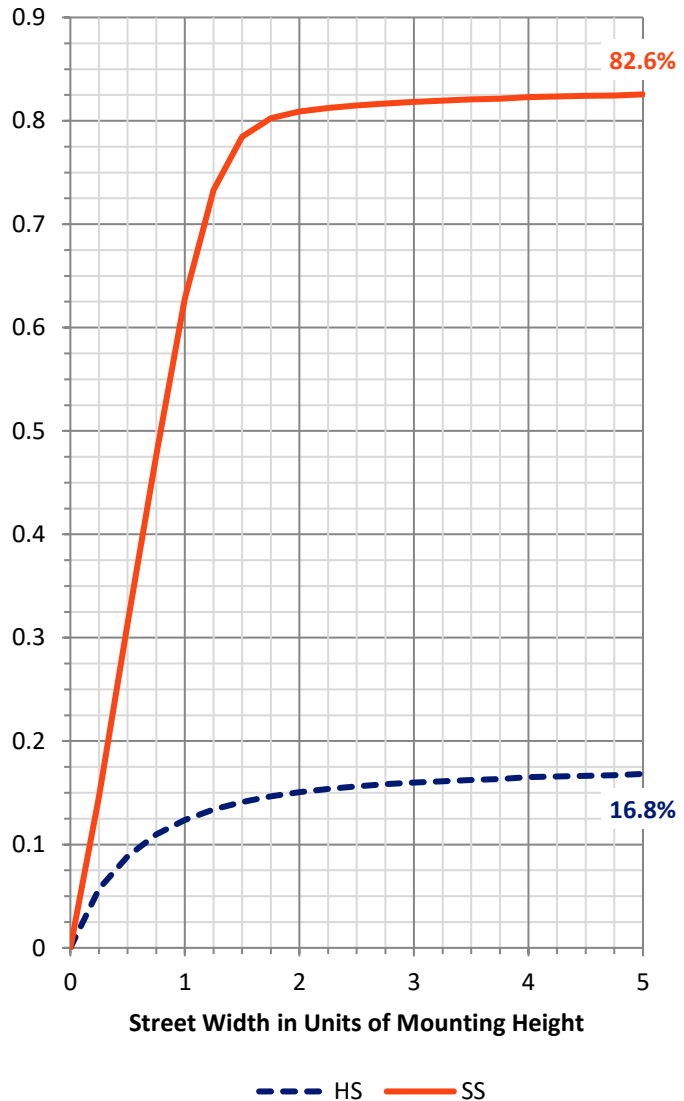
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5156.2	0.0	5156.2
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	24755.8	0.0	24755.8
	% Fixture	82.8	0.0	82.8
Total	Lumens	29912.0	0.0	29912.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.8	2.1
10°-20°	1791.8	6.0
20°-30°	2918.5	9.8
30°-40°	4362.8	14.6
40°-50°	6617.5	22.1
50°-60°	7417.0	24.8
60°-70°	4380.8	14.6
70°-80°	1435.3	4.8
80°-90°	354.6	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°	29912.0	100.0
0°-180°	29912.0	100.0

Coefficient of Utilization



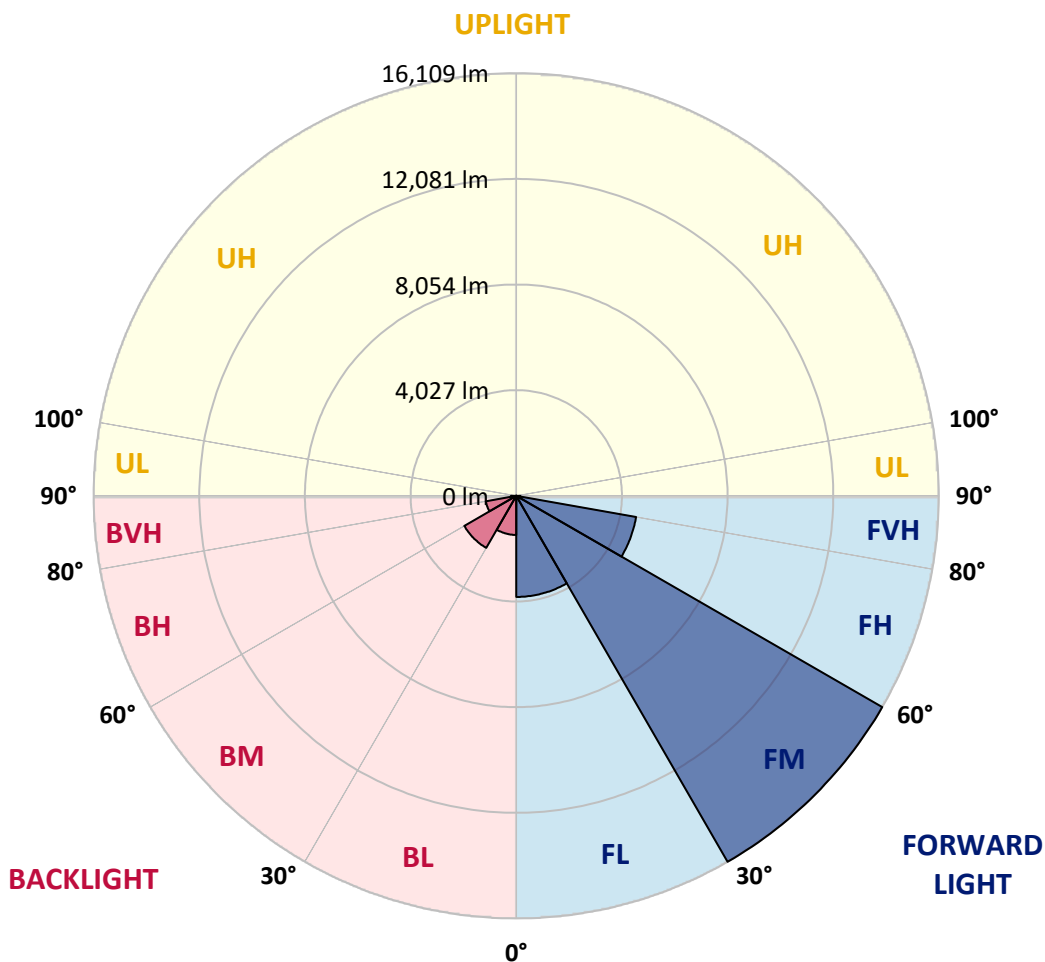
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3853.1	12.9			
FM (30°-60°)	16108.6	53.9			
FH (60°-80°)	4638.0	15.5			G2/5000
FVH (80°-90°)	156.1	0.5			G2/225
BL (0°-30°)	1490.9	5.0	B3/2500		
BM (30°-60°)	2288.7	7.7	B2/2500		
BH (60°-80°)	1178.1	3.9	B3/2500		G3/2500
BVH (80°-90°)	198.5	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°	6634.5	6634.5	6634.5	6634.5	6634.5	6634.5	6634.5	6634.5	6634.5	6634.5	6634.5
2.5°	7618.3	7688.2	7657.3	7550.5	7468.2	7352.1	7222.5	7183.4	7046.7	6893.5	6709.6
5°	8824.1	8789.2	8738.8	8572.2	8396.4	8191.8	7867.0	7815.7	7511.3	7164.9	6799.0
7.5°	9510.7	9507.7	9477.8	9380.2	9219.8	8952.5	8560.9	8500.3	8040.7	7483.6	6916.2
10°	9411.1	9403.9	9453.2	9555.0	9603.3	9547.8	9217.8	9157.1	8592.8	7836.2	7051.9
12.5°	8844.7	8848.8	8927.9	9141.7	9432.7	9782.2	9728.7	9698.9	9165.4	8235.1	7216.3
15°	8403.7	8412.9	8475.6	8661.6	9005.0	9639.3	10039.1	10049.4	9719.4	8675.0	7408.6
17.5°	8210.4	8229.9	8258.7	8389.2	8703.8	9354.5	10113.2	10168.7	10204.6	9131.4	7593.6
20°	8272.0	8290.6	8298.8	8382.1	8640.1	9181.8	10061.7	10161.5	10576.8	9561.1	7778.6
22.5°	8548.6	8559.9	8565.0	8586.6	8787.1	9231.2	10027.8	10132.7	10846.1	9946.6	7918.4
25°	9007.0	8998.8	8966.0	8938.2	9072.8	9426.4	10106.0	10205.7	11065.0	10296.1	8009.9
27.5°	9556.0	9545.8	9481.9	9405.9	9483.0	9730.8	10331.0	10410.2	11261.4	10623.0	8056.2
30°	10214.9	10188.1	10067.9	9977.4	10007.2	10187.1	10702.2	10774.1	11564.6	10994.1	8101.4
32.5°	10976.6	10947.8	10774.1	10624.0	10624.0	10774.1	11084.6	11144.2	11821.6	11413.5	8174.4
35°	11930.6	11894.7	11668.5	11416.6	11345.7	11421.8	11605.8	11647.9	12284.2	11941.9	8307.0
37.5°	13055.2	13006.9	12713.9	12376.7	12221.5	12217.4	12350.0	12436.3	13023.3	12635.8	8532.1
40°	14182.9	14149.0	13893.0	13627.8	13323.5	13225.8	13430.4	13457.1	13989.6	13497.2	8820.0
42.5°	15054.6	15048.4	15001.2	15036.1	14724.6	14527.2	14687.6	14709.2	15169.7	14429.6	9126.3
45°	15515.1	15525.4	15754.6	16262.5	16377.6	16233.7	16312.8	16319.0	16518.4	15370.2	9407.0
47.5°	15146.1	15199.5	15779.3	16915.2	17857.9	18335.8	18204.3	18280.3	17826.0	16178.2	9626.9
50°	13708.0	13773.8	14760.6	16624.3	18548.7	20370.2	20301.3	20283.9	18880.7	16770.3	9746.1
52.5°	11926.5	11977.9	12792.0	15112.1	18041.8	21494.8	22127.1	22036.6	19818.2	17213.3	9768.8
55°	9213.7	9293.9	10074.1	12094.0	15992.1	21065.1	23469.5	23388.4	20672.4	17445.7	9742.0
57°	6550.2	6634.5	7409.6	9230.1	13453.0	19577.7	23603.2	23689.5	21134.0	17484.7	9771.8
57.5°	5845.0	5931.3	6699.2	8467.4	12661.5	19040.0	23488.0	23632.0	21217.3	17478.5	9788.3
60°	2943.0	2975.9	3465.3	4726.6	8003.8	15392.8	21986.2	22357.3	21292.3	17176.3	9859.2
62.5°	1829.7	1806.2	1790.7	2177.2	3894.0	10207.7	18886.8	19601.3	19856.2	16444.4	9687.5
65°	1608.8	1564.5	1395.0	1364.2	1719.8	4957.9	14223.0	15112.1	16787.8	15291.1	9278.4
67.5°	1511.2	1467.9	1276.8	1161.6	1162.7	1965.5	8830.2	9831.5	13077.8	13341.0	8313.2
70°	1410.4	1371.3	1192.5	1056.7	990.0	1088.6	4062.6	4822.2	8525.0	10486.3	6948.0
72.5°	1280.9	1254.1	1084.5	944.7	873.8	815.2	1555.3	1837.0	4935.2	7042.6	4825.3
75°	1145.2	1120.5	975.5	841.9	755.6	641.5	875.8	943.7	2507.3	3603.0	2375.6
77.5°	996.1	981.7	867.6	744.2	675.4	531.4	619.9	652.7	1075.3	1545.1	1191.4
80°	792.6	820.3	758.7	663.1	599.3	425.6	438.9	460.6	626.0	754.6	676.4
82.5°	516.1	564.3	594.1	538.6	493.4	335.1	315.6	324.8	408.1	460.6	294.0
85°	214.8	241.6	390.6	352.6	327.9	244.6	211.7	215.8	252.9	262.1	120.3
87.5°	95.6	101.7	171.7	161.4	138.8	84.3	90.5	98.7	134.7	127.4	46.3
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°	6634.5	6634.5	6634.5	6634.5	6634.5	6634.5	6634.5	6634.5	6634.5	6634.5	6634.5
2.5°	6640.6	6554.4	6406.3	6242.9	6109.2	6002.3	5894.4	5820.4	5734.0	5687.8	5664.1
5°	6645.8	6476.2	6164.7	5845.0	5559.3	5298.2	5049.4	4858.2	4679.3	4582.7	4555.9
7.5°	6667.4	6412.5	5908.8	5382.5	4874.6	4411.0	4053.3	3829.2	3667.8	3595.9	3575.3
10°	6684.9	6337.4	5592.2	4812.9	4122.2	3652.4	3374.8	3249.4	3193.9	3184.7	3175.4
12.5°	6726.0	6260.4	5259.1	4218.8	3537.3	3212.4	3115.7	3107.5	3123.0	3145.6	3145.6
15°	6790.8	6184.3	4878.7	3708.9	3165.1	3051.0	3070.6	3115.7	3157.9	3192.9	3198.0
17.5°	6838.0	6090.7	4469.6	3300.8	2966.7	2997.5	3067.5	3131.2	3174.3	3208.2	3211.4
20°	6871.9	5945.8	4032.8	2989.3	2852.6	2948.3	3035.6	3092.1	3121.9	3155.9	3161.0
22.5°	6854.5	5751.5	3645.1	2766.2	2760.1	2876.2	2959.5	3027.3	3004.7	2971.8	2993.4
25°	6770.2	5484.2	3246.4	2599.8	2662.5	2779.6	2882.4	2837.2	2761.1	2746.8	2755.0
27.5°	6620.1	5142.9	2877.3	2445.5	2549.4	2690.2	2684.1	2638.8	2612.1	2593.5	2604.9
30°	6458.7	4772.9	2554.5	2310.9	2424.0	2540.1	2516.5	2515.5	2488.7	2458.9	2473.3
32.5°	6299.4	4400.7	2298.5	2199.8	2329.3	2344.8	2396.2	2411.6	2359.1	2296.5	2292.4
35°	6160.6	4049.2	2104.3	2099.1	2215.3	2217.4	2292.4	2270.7	2140.2	2075.5	2075.5
37.5°	6056.8	3698.6	1956.2	2008.7	2065.1	2118.6	2156.7	2067.3	2045.7	2009.7	2008.7
40°	6011.6	3390.3	1863.7	1939.8	1959.3	2027.1	1929.5	1964.4	1974.7	1956.2	1956.2
42.5°	5964.2	3121.9	1783.5	1887.3	1884.2	1875.0	1825.6	1870.9	1912.0	1913.0	1910.0
45°	5917.0	2890.7	1712.6	1775.3	1818.5	1718.8	1728.0	1776.4	1833.9	1854.4	1854.4
47.5°	5864.6	2707.6	1647.8	1657.1	1723.9	1657.1	1649.9	1686.9	1754.8	1787.6	1794.8
50°	5749.4	2543.2	1573.8	1553.3	1571.8	1594.3	1600.6	1618.0	1693.1	1745.5	1757.8
52.5°	5590.1	2396.2	1479.2	1457.7	1457.7	1543.0	1571.8	1576.9	1640.6	1703.3	1715.7
55°	5457.5	2302.7	1381.6	1377.5	1373.4	1488.5	1537.8	1546.1	1590.2	1639.6	1645.8
57°	5466.7	2295.4	1306.6	1310.7	1309.7	1433.0	1505.9	1523.5	1546.1	1588.2	1595.4
57.5°	5471.9	2300.5	1290.1	1292.1	1291.1	1417.5	1496.7	1516.3	1533.7	1577.9	1585.1
60°	5548.9	2314.0	1223.3	1200.7	1205.8	1335.4	1444.3	1469.0	1480.2	1538.8	1548.1
62.5°	5434.8	2254.3	1169.8	1115.3	1115.3	1249.0	1371.3	1410.4	1427.9	1507.0	1522.4
65°	5103.9	2086.8	1107.1	1018.7	1029.0	1162.7	1284.0	1347.7	1374.4	1473.1	1489.5
67.5°	4593.0	1892.5	1040.3	932.4	942.6	1072.2	1193.5	1262.3	1304.4	1436.1	1449.4
70°	3927.9	1655.0	949.8	840.9	853.2	973.5	1086.6	1164.7	1227.4	1401.1	1405.2
72.5°	2895.8	1356.9	823.4	740.1	753.5	858.3	978.6	1069.0	1153.3	1313.8	1311.7
75°	1721.9	1060.8	683.6	638.4	647.6	745.2	881.0	991.0	1117.4	1279.9	1299.3
77.5°	1044.5	798.7	557.2	534.5	545.9	645.6	811.1	928.3	1102.0	1206.8	1200.7
80°	631.2	570.5	445.1	430.7	442.0	552.0	750.5	881.0	963.2	1031.0	1031.0
82.5°	330.0	348.5	326.9	315.6	331.0	448.2	682.5	768.9	851.2	730.9	682.5
85°	134.7	181.9	198.4	197.4	206.6	310.5	589.0	657.9	549.0	521.2	533.5
87.5°	45.3	77.1	96.6	83.3	87.4	195.3	408.1	317.7	377.3	263.2	249.8
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)