

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: P646885

Luminaire Tested: **GALN-SA4C-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-835-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18457.7 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

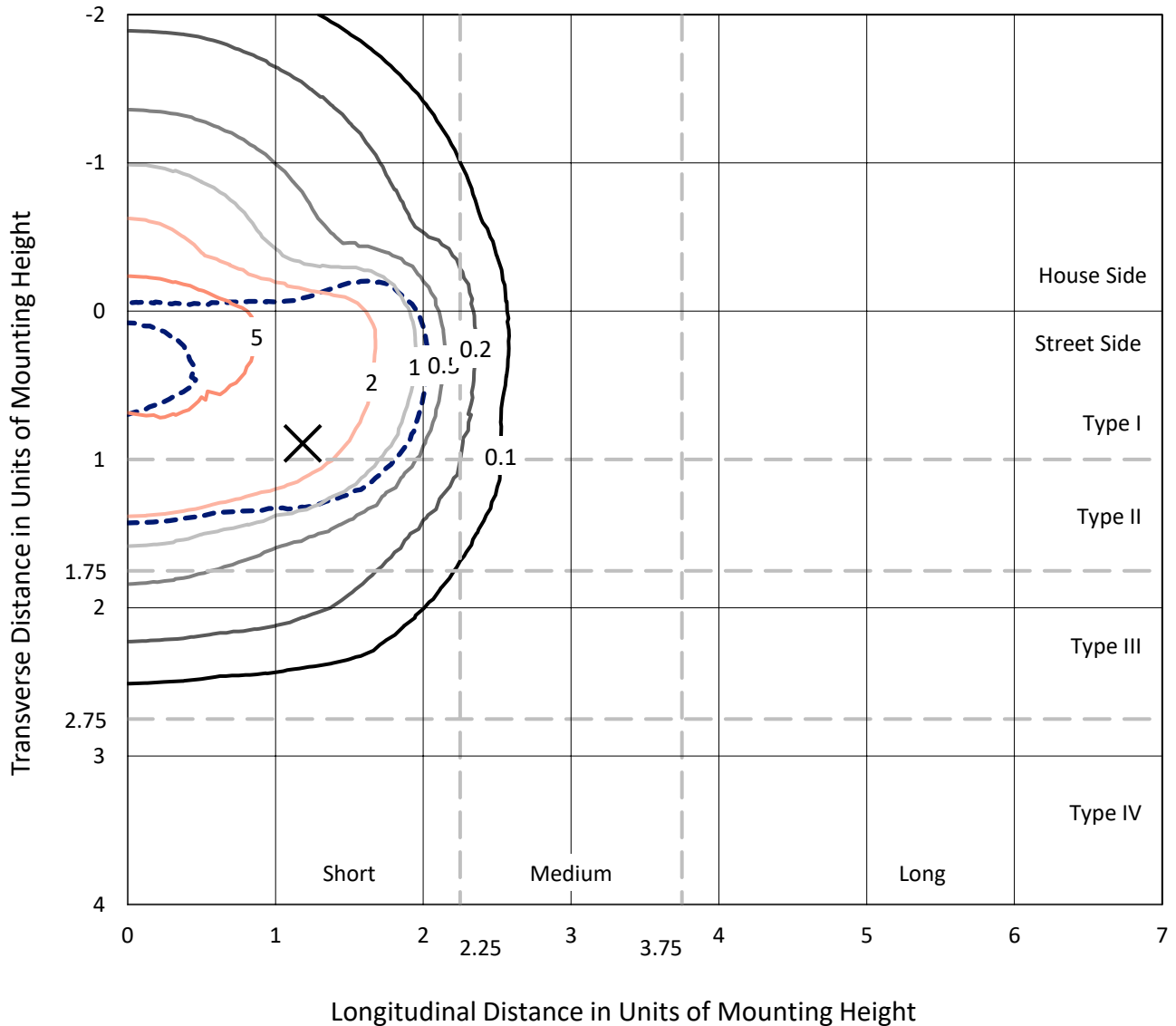
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

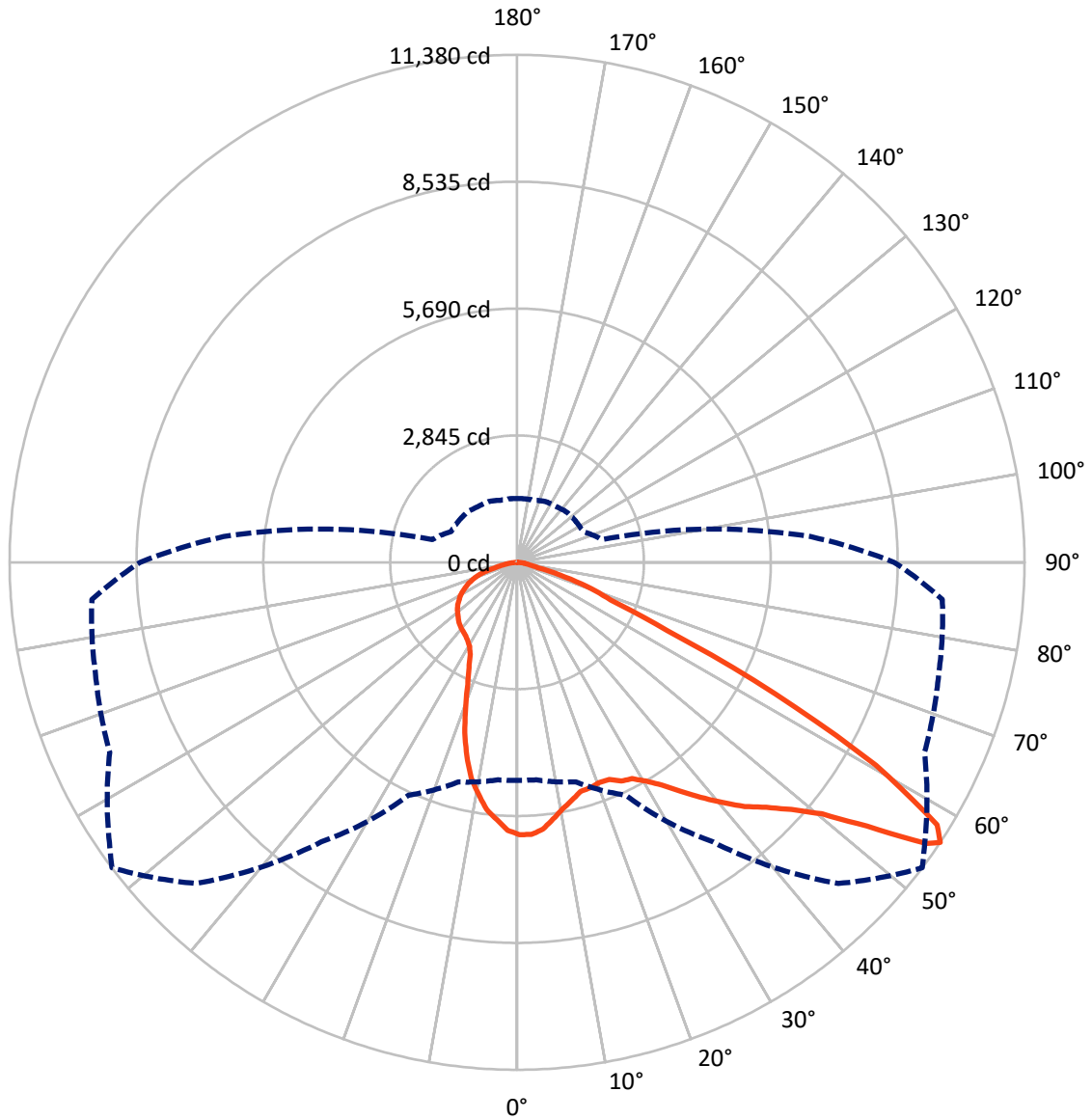
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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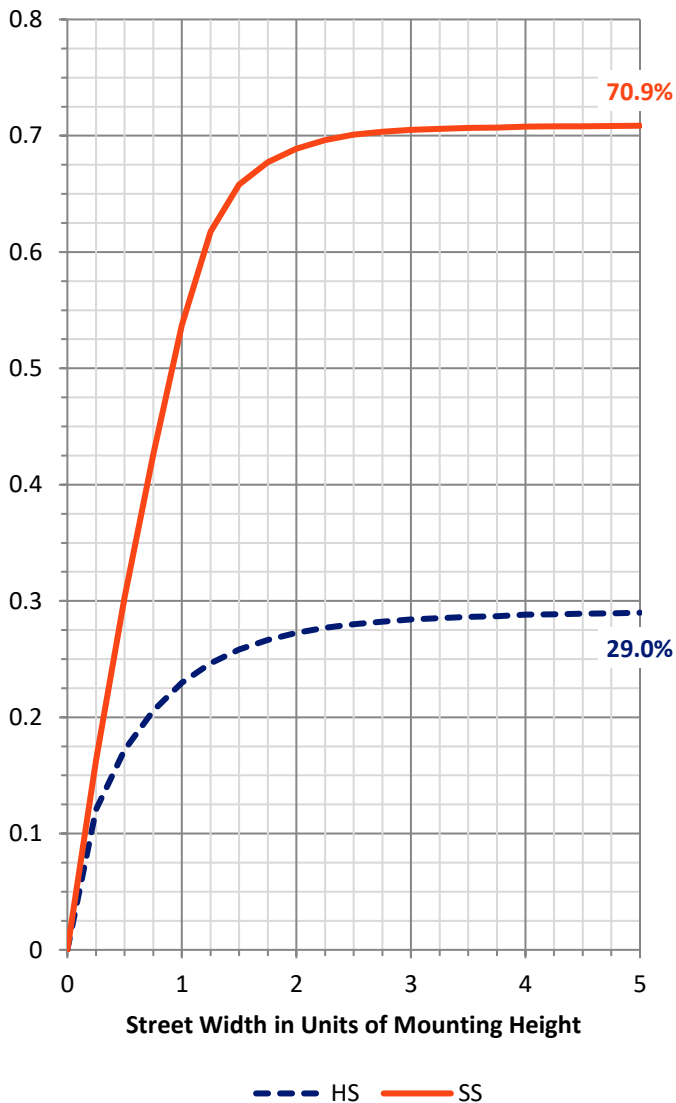
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5386.4	0.0	5386.4
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	13071.3	0.0	13071.3
	% Fixture	70.8	0.0	70.8
Total	Lumens	18457.7	0.0	18457.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.6	2.9
10°-20°	1350.2	7.3
20°-30°	1991.0	10.8
30°-40°	2844.7	15.4
40°-50°	3915.4	21.2
50°-60°	4626.9	25.1
60°-70°	2465.8	13.4
70°-80°	625.6	3.4
80°-90°	97.5	0.5
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°	18457.7	100.0
0°-180°	18457.7	100.0

Coefficient of Utilization



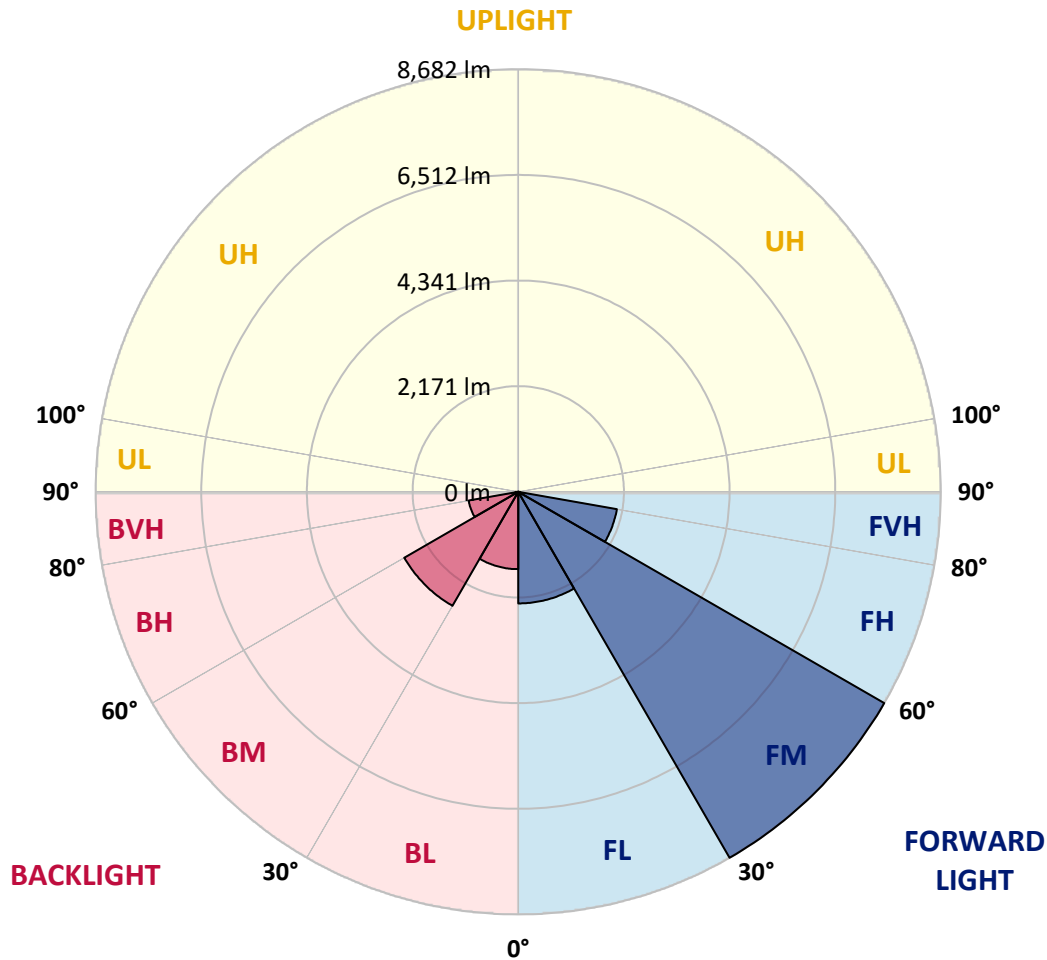
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2293.1	12.4			
FM (30°-60°)	8682.1	47.0			
FH (60°-80°)	2056.9	11.1			G2/5000
FVH (80°-90°)	39.2	0.2			G1/100
BL (0°-30°)	1588.7	8.6	B3/2500		
BM (30°-60°)	2704.8	14.7	B3/5000		
BH (60°-80°)	1034.5	5.6	B3/2500		G3/2500
BVH (80°-90°)	58.3	0.3			G1/100
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°	53°	55°	65°	75°	85°
0°	6106.5	6106.5	6106.5	6106.5	6106.5	6106.5	6106.5	6106.5	6106.5	6106.5	6106.5
2.5°	6030.7	5978.7	6009.4	5997.6	6094.7	6123.1	6108.9	6120.7	6175.2	6149.1	6094.7
5°	5635.3	5708.7	5722.9	5758.5	5815.3	5926.6	6014.1	6037.9	6063.9	6184.7	6172.8
7.5°	5275.5	5325.2	5299.1	5403.3	5526.4	5706.3	5812.9	5831.9	6071.0	6137.3	6187.0
10°	5048.2	4998.4	5116.7	5145.2	5284.9	5490.9	5618.7	5696.9	5914.7	6177.6	6208.3
12.5°	4837.4	4820.8	4891.9	4972.4	5128.7	5341.7	5471.9	5502.8	5839.0	6116.0	6260.4
15°	4681.1	4662.1	4733.2	4792.4	4974.7	5164.1	5329.9	5417.5	5756.1	6080.5	6215.5
17.5°	4558.0	4555.7	4595.9	4702.4	4889.4	5048.2	5315.7	5320.4	5713.5	6135.0	6253.4
20°	4550.9	4548.5	4555.7	4674.0	4844.5	5038.7	5270.7	5313.3	5713.5	6097.1	6255.7
22.5°	4610.1	4572.2	4614.8	4690.6	4813.7	5055.2	5287.3	5382.0	5850.8	6284.1	6362.3
25°	4704.8	4714.3	4737.9	4764.0	4835.0	5093.1	5434.1	5512.2	6011.8	6445.1	6509.1
27.5°	4877.6	4872.9	4882.4	4896.6	4958.1	5128.7	5493.3	5694.5	6348.0	6731.6	6667.7
30°	5131.0	5114.4	5152.3	5202.0	5145.2	5242.3	5689.8	5841.3	6660.6	7020.5	6845.3
32.5°	5360.7	5422.2	5493.3	5514.6	5445.9	5464.9	5950.3	6104.2	6921.0	7375.6	7063.1
35°	5647.2	5696.9	5791.6	5857.9	5846.0	5789.3	6305.4	6509.1	7297.5	7636.1	7292.8
37.5°	5926.6	5985.8	6142.0	6338.5	6229.6	6203.6	6684.2	6852.3	7413.5	7775.8	7460.9
40°	6376.4	6374.1	6644.0	6745.9	6842.9	6797.9	7077.3	7134.1	7475.1	7745.0	7465.6
42.5°	6904.5	6871.3	7146.0	7304.6	7430.1	7434.8	7487.0	7468.0	7503.5	7588.8	7415.9
45°	7406.4	7477.5	7754.5	8038.7	8164.1	8178.4	7832.7	7797.1	7553.2	7543.7	7321.2
47.5°	8019.7	8036.2	8263.5	8637.7	8928.9	8829.5	8280.1	8202.0	7771.0	7844.5	7479.8
50°	8055.2	8178.4	8381.9	8822.4	9717.4	9691.3	8860.3	8713.5	8121.5	8270.7	7922.6
52.5°	7311.7	7283.3	7524.8	8244.6	9658.2	10548.5	9821.6	9471.2	8874.4	8760.8	8640.0
55°	5571.4	5637.7	5850.8	6577.7	8386.7	10560.3	11131.0	10844.5	9679.5	9485.3	9345.7
56°	4887.1	4896.6	5097.9	5760.8	7652.7	10183.9	11379.6	11147.6	10079.6	9783.7	9570.6
57.5°	4051.3	3996.8	4101.0	4463.3	6459.4	9388.2	11107.3	11334.6	10548.5	10105.7	9809.7
60°	3189.4	3177.6	3135.0	3201.2	4082.1	7072.6	9246.2	9757.7	10501.1	9802.6	9395.4
62.5°	2604.6	2545.4	2630.6	2725.3	2836.6	4387.5	6497.2	6797.9	8337.0	7825.5	7058.4
65°	2019.7	1991.3	2097.9	2405.7	2471.9	2786.9	3700.8	3932.9	4922.6	4835.0	4257.2
67.5°	1389.9	1394.6	1487.0	1955.8	2292.0	2263.6	2266.0	2386.7	2569.0	1908.4	1662.2
70°	880.8	878.4	928.2	1259.7	1844.5	1863.5	1768.7	1733.2	1643.3	994.5	1053.7
72.5°	565.9	549.4	575.3	696.2	954.2	1103.4	1136.5	1157.8	951.8	781.4	847.7
75°	319.6	303.1	293.6	324.4	376.5	435.7	478.3	492.5	551.7	591.9	627.5
77.5°	97.1	87.6	106.6	142.0	187.1	251.0	305.4	314.9	371.8	419.1	454.6
80°	42.6	47.4	66.3	94.7	132.6	177.6	215.5	229.7	267.6	303.1	312.6
82.5°	26.1	28.4	45.0	63.9	92.3	125.5	153.9	158.6	196.5	225.0	232.1
85°	9.5	11.8	23.6	37.9	59.2	80.5	80.5	87.6	80.5	80.5	87.6
87.5°	0.0	0.0	2.3	4.7	4.7	7.1	9.5	9.5	11.8	14.2	16.6
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°	6106.5	6106.5	6106.5	6106.5	6106.5	6106.5	6106.5	6106.5	6106.5	6106.5	6106.5
2.5°	6123.1	6111.2	6092.3	6023.6	6016.6	5995.2	5876.9	5857.9	5876.9	5820.0	5824.7
5°	6111.2	6146.8	6004.7	5936.0	5808.2	5715.8	5609.3	5554.8	5457.7	5396.2	5464.9
7.5°	6163.4	6149.1	5971.5	5822.4	5630.6	5396.2	5209.1	5102.6	4932.1	4884.7	4920.3
10°	6144.4	6068.6	5860.3	5663.8	5301.5	5095.5	4792.4	4498.8	4337.8	4254.9	4243.1
12.5°	6118.4	6097.1	5749.0	5410.4	5029.2	4595.9	4169.7	3892.6	3629.8	3516.1	3532.7
15°	6149.1	5969.2	5540.6	5112.1	4605.4	4037.1	3577.8	3220.2	3037.9	2964.4	2964.4
17.5°	6135.0	5907.7	5441.1	4778.2	4136.5	3464.1	2959.7	2744.3	2668.5	2668.5	2689.8
20°	6142.0	5947.9	5239.9	4444.3	3582.5	2917.1	2550.1	2471.9	2505.1	2517.0	2528.8
22.5°	6182.3	5815.3	5043.4	4077.3	3068.7	2495.7	2315.7	2318.1	2377.3	2441.2	2429.3
25°	6232.0	5763.2	4804.3	3712.7	2675.6	2289.6	2232.8	2225.8	2270.7	2303.8	2308.6
27.5°	6189.4	5673.2	4560.3	3258.1	2353.5	2152.3	2140.5	2145.2	2159.4	2225.8	2204.4
30°	6329.1	5699.3	4254.9	2876.9	2176.0	2107.4	2093.1	2086.0	2107.4	2126.2	2109.7
32.5°	6502.0	5606.9	4027.6	2509.8	2088.4	2074.2	2045.7	2036.3	2048.2	2029.2	2038.7
35°	6577.7	5590.3	3731.6	2247.1	2019.7	2007.8	1991.3	1989.0	1991.3	1974.7	1960.6
37.5°	6620.3	5668.5	3393.1	2126.2	1977.1	1989.0	1951.1	1946.3	1903.7	1913.2	1920.3
40°	6693.7	5547.7	3118.4	2010.3	1951.1	1927.4	1894.2	1887.1	1858.7	1842.2	1858.7
42.5°	6587.1	5512.2	2848.5	1960.6	1913.2	1887.1	1863.5	1823.2	1813.7	1799.5	1790.0
45°	6502.0	5308.6	2606.9	1898.9	1868.2	1854.0	1809.0	1766.4	1730.8	1745.1	1723.8
47.5°	6565.8	5237.6	2367.8	1846.9	1806.6	1790.0	1745.1	1711.9	1676.4	1659.8	1655.1
50°	6821.6	5370.1	2166.6	1809.0	1754.5	1745.1	1685.9	1648.0	1614.9	1603.0	1607.7
52.5°	7432.5	5732.4	2029.2	1730.8	1704.8	1662.2	1629.0	1581.7	1560.4	1522.5	1546.2
55°	8206.8	6322.0	1993.7	1657.5	1643.3	1605.4	1560.4	1524.9	1484.6	1453.8	1446.7
56°	8455.4	6603.7	1965.3	1629.0	1605.4	1584.1	1524.9	1503.5	1439.6	1432.5	1427.8
57.5°	8656.6	6852.3	1970.0	1574.6	1550.9	1531.9	1496.5	1444.3	1401.7	1375.7	1387.6
60°	8202.0	6414.3	1880.1	1491.7	1487.0	1451.4	1401.7	1378.1	1325.9	1295.2	1288.1
62.5°	6097.1	4354.3	1524.9	1385.1	1382.8	1344.9	1288.1	1262.0	1252.6	1210.0	1210.0
65°	3511.4	2730.1	1318.9	1297.5	1278.6	1240.7	1183.9	1162.6	1138.9	1124.7	1112.9
67.5°	1498.8	1415.9	1198.1	1195.7	1174.4	1127.1	1070.2	1037.1	1006.3	977.9	992.1
70°	1086.8	1103.4	1082.1	1070.2	1044.2	985.0	935.3	895.0	847.7	828.7	842.9
72.5°	861.8	897.4	928.2	930.5	899.7	831.1	776.7	722.2	670.1	644.0	655.8
75°	653.5	677.2	708.0	715.0	670.1	622.7	570.7	513.8	473.6	442.8	447.5
77.5°	471.2	466.4	494.9	490.2	468.9	435.7	388.3	336.2	291.3	262.9	265.2
80°	322.0	329.1	345.7	343.3	317.3	296.0	260.4	217.8	184.7	161.0	156.3
82.5°	225.0	236.8	251.0	239.1	217.8	196.5	170.5	139.7	113.7	94.7	90.0
85°	80.5	92.3	106.6	113.7	120.7	116.0	97.1	78.1	56.8	47.4	45.0
87.5°	16.6	18.9	21.3	21.3	21.3	18.9	16.6	16.6	14.2	7.1	7.1
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)