

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: P459039

Luminaire Tested: **GALN-SA5C-735-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33119 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

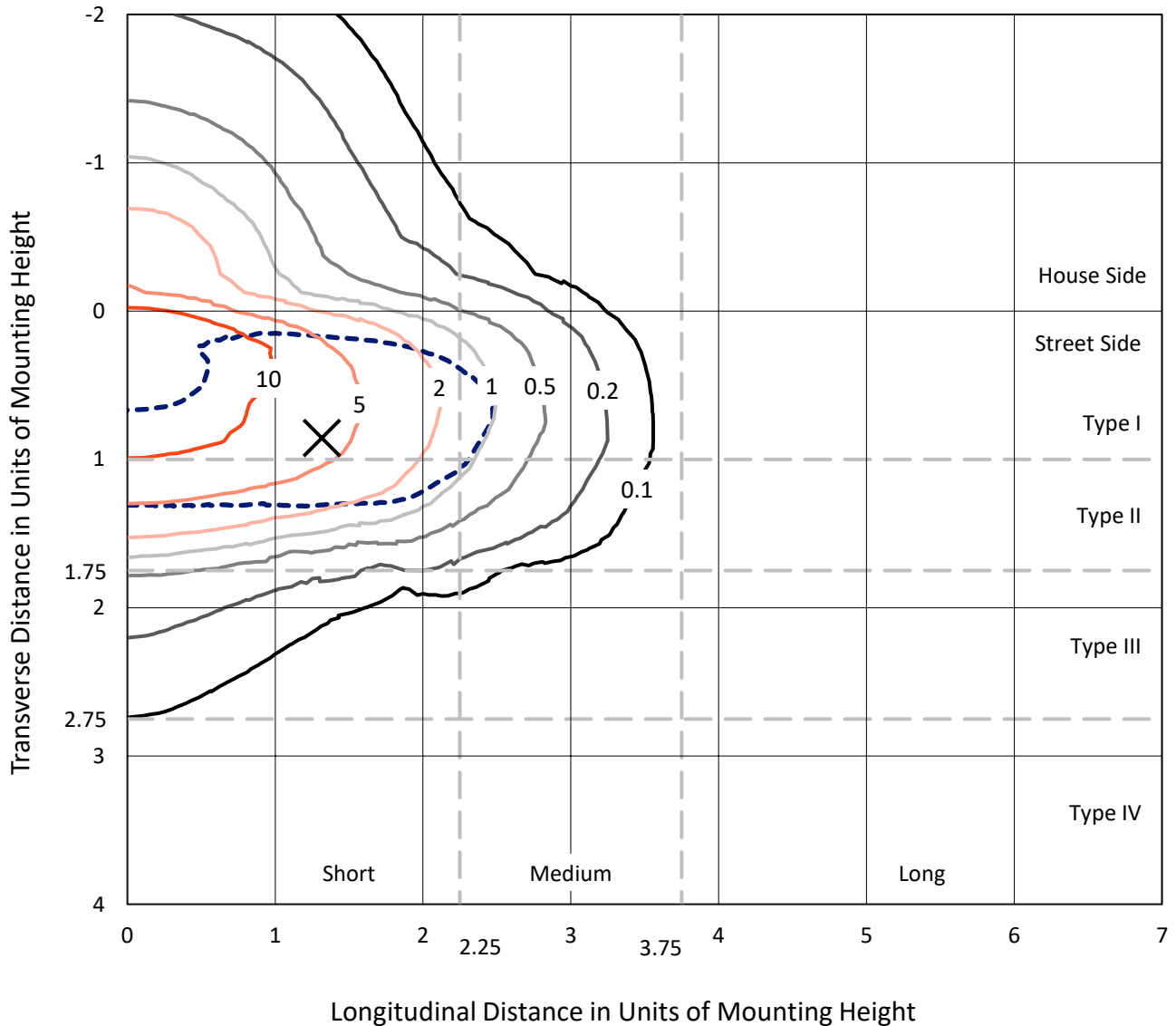
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

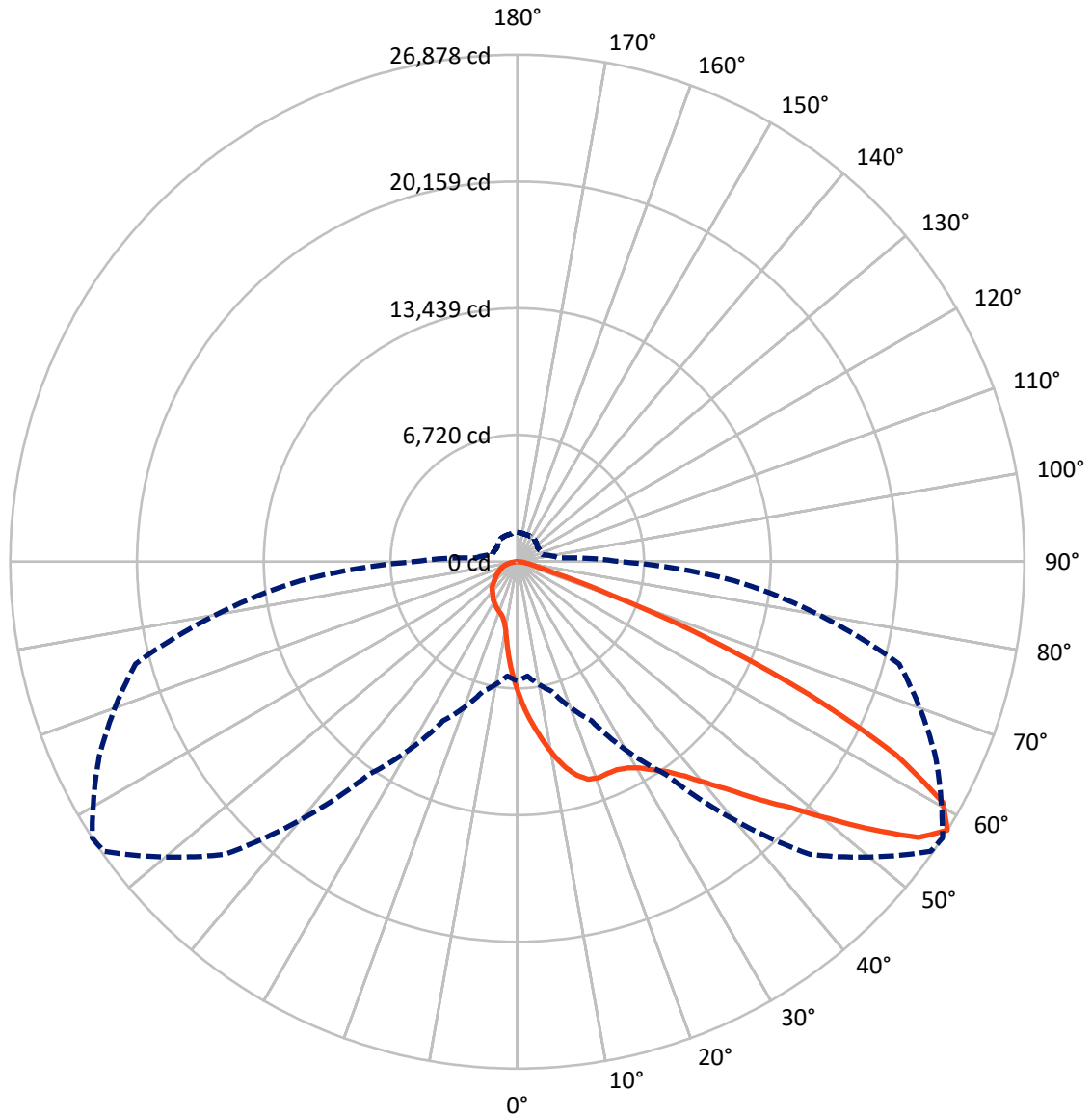
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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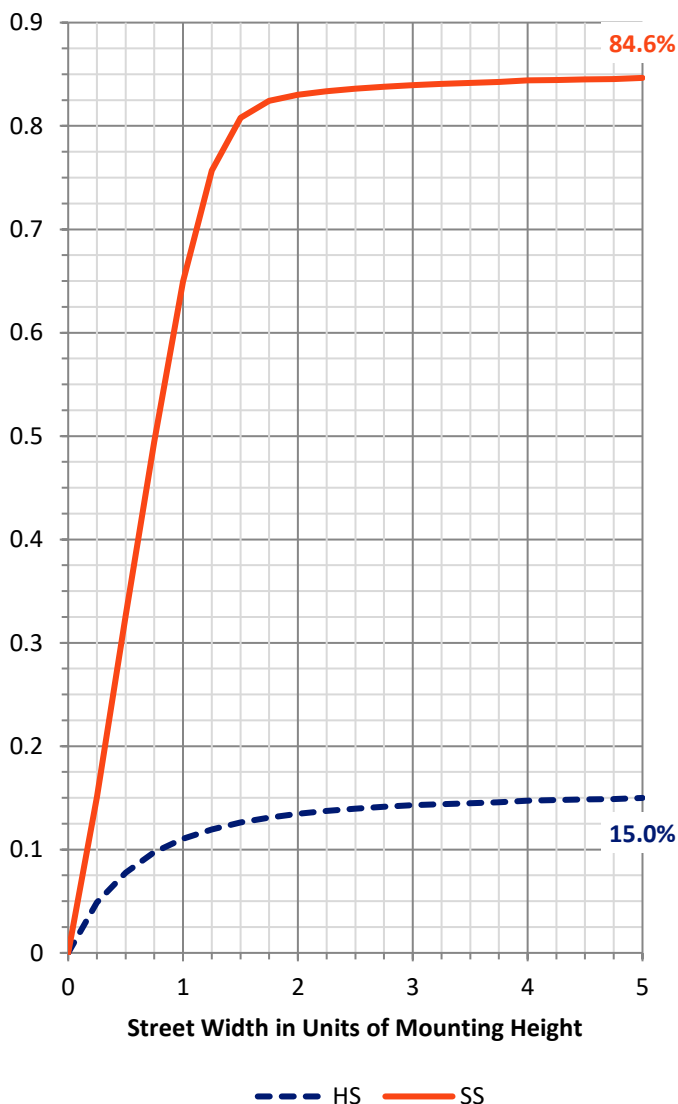
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5036.5	0.0	5036.5
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	28082.5	0.0	28082.5
	% Fixture	84.8	0.0	84.8
Total	Lumens	33119.0	0.0	33119.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	668.7	2.0
10°-20°	1970.8	6.0
20°-30°	3272.5	9.9
30°-40°	4929.3	14.9
40°-50°	7400.9	22.3
50°-60°	8295.5	25.0
60°-70°	4854.9	14.7
70°-80°	1436.1	4.3
80°-90°	290.3	0.9
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°	33119.0	100.0
0°-180°	33119.0	100.0

Coefficient of Utilization



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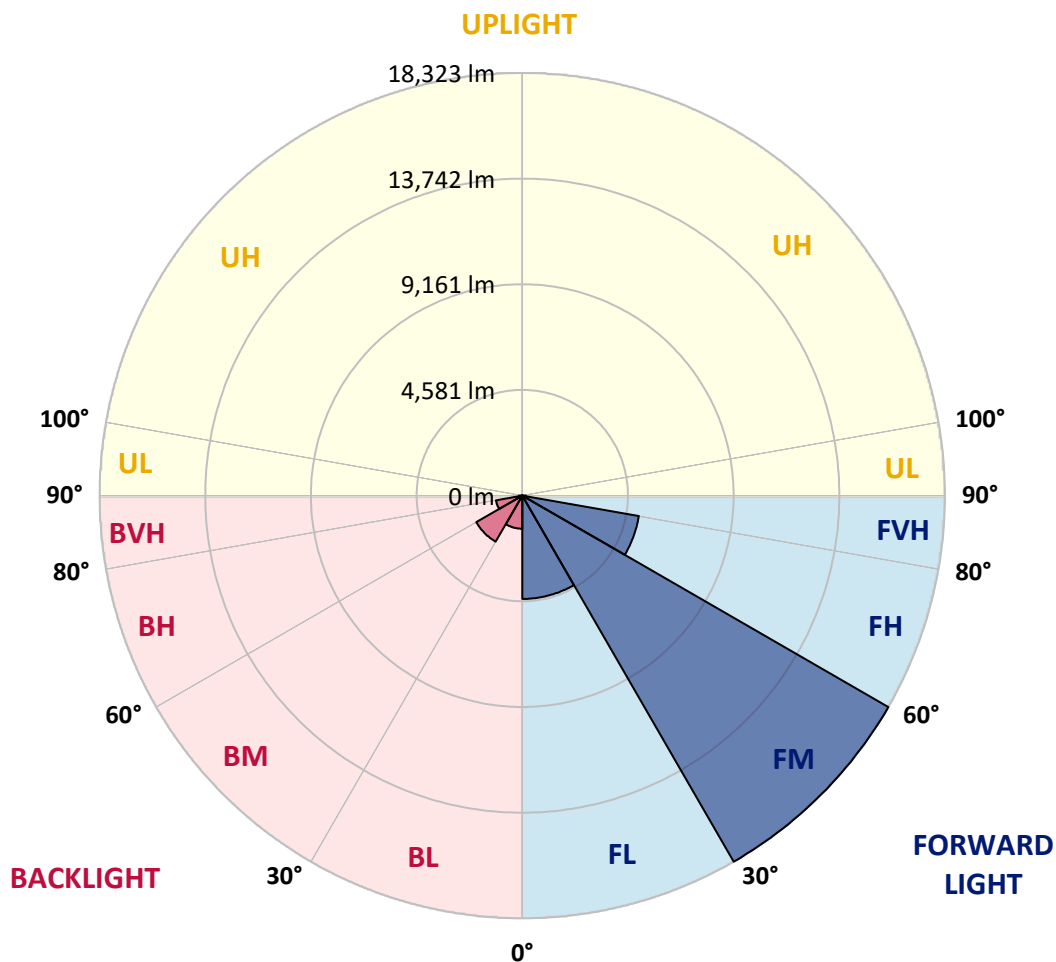
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4476.9	13.5			
FM	(30°-60°)	18322.9	55.3			
FH	(60°-80°)	5132.1	15.5			G3/7500
FVH	(80°-90°)	150.6	0.5			G2/225
BL	(0°-30°)	1435.1	4.3	B3/2500		
BM	(30°-60°)	2302.9	7.0	B2/2500		
BH	(60°-80°)	1158.9	3.5	B3/2500		G3/2500
BVH	(80°-90°)	139.7	0.4			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°	57°	65°	75°	85°
0°	6957.9	6957.9	6957.9	6957.9	6957.9	6957.9	6957.9	6957.9	6957.9	6957.9	6957.9
2.5°	8645.7	8551.5	8477.1	8411.9	8326.7	8096.4	7866.2	7862.6	7679.5	7396.6	7106.6
5°	10054.4	9927.5	9943.8	9740.7	9537.7	9204.1	8716.4	8691.1	8301.3	7771.9	7233.5
7.5°	10971.7	10973.5	10922.7	10806.7	10587.4	10208.5	9655.5	9530.4	8988.4	8185.3	7378.5
10°	10924.6	10973.5	11058.7	11158.4	11225.5	11038.8	10534.8	10382.5	9677.3	8685.6	7539.9
12.5°	10297.3	10373.4	10494.9	10745.1	11149.4	11457.5	11285.3	11162.0	10475.0	9184.2	7717.5
15°	9905.7	9951.0	10018.1	10186.7	10621.8	11359.7	11805.6	11740.4	11227.3	9748.0	7916.9
17.5°	9786.1	9831.4	9853.1	9956.5	10266.5	11022.5	12010.5	12126.5	11894.5	10266.5	8118.2
20°	9905.7	9927.5	9927.5	9989.1	10232.0	10824.8	12001.4	12235.3	12442.0	10888.3	8306.7
22.5°	10219.3	10228.4	10215.7	10237.5	10418.8	10879.2	11916.2	12206.3	12884.3	11415.9	8453.6
25°	10728.8	10743.3	10659.9	10609.1	10741.5	11118.5	11963.3	12229.8	13230.6	11919.8	8551.5
27.5°	11307.1	11325.2	11223.7	11105.8	11167.5	11414.0	12148.3	12387.6	13489.8	12416.6	8613.1
30°	12015.9	12023.2	11852.8	11711.4	11671.5	11854.6	12463.7	12686.7	13812.5	13002.1	8705.6
32.5°	12741.1	12795.5	12576.1	12376.7	12309.6	12365.8	12929.6	13145.4	14196.8	13631.2	8854.2
35°	13727.3	13736.4	13473.5	13230.6	13009.4	13081.9	13526.1	13682.0	14728.0	14358.2	9064.5
37.5°	14958.3	15041.7	14679.1	14225.9	13953.9	13848.8	14247.6	14418.0	15473.1	15250.1	9381.8
40°	16325.2	16356.0	16046.0	15763.2	15266.5	14961.9	15237.5	15422.4	16392.3	16314.3	9749.8
42.5°	17184.5	17251.6	17275.2	17246.1	16872.7	16361.5	16466.6	16553.6	17480.0	17313.2	10126.9
45°	17474.6	17574.3	17911.5	18625.8	18665.7	18161.7	17916.9	18000.3	18665.7	18321.2	10487.6
47.5°	16994.2	17164.6	17786.4	19251.2	20348.0	20386.1	19648.2	19465.1	19746.1	19156.9	10748.7
50°	15752.3	15788.6	16740.3	18861.4	21136.6	22512.6	21749.4	21408.6	20772.2	19775.1	10928.2
52.5°	13830.6	13872.3	14670.0	17050.4	20650.8	23999.2	24207.7	23598.6	21814.7	20255.6	11046.0
55°	10266.5	10507.6	11385.0	13685.6	18348.4	23859.6	26162.0	25815.7	23074.6	20636.3	11230.9
57.5°	6312.5	6091.4	7132.0	9311.1	13799.8	21941.6	26765.7	26878.1	24461.5	20955.3	11540.9
60°	2904.3	2947.8	3377.4	4802.4	8411.9	17164.6	25210.2	25920.9	25228.4	20944.5	11618.9
62.5°	2001.4	1961.6	1852.8	2108.4	3836.1	10855.7	21294.4	22498.1	23691.0	20293.6	11308.9
65°	1789.3	1749.5	1539.2	1468.5	1762.1	4731.7	15480.4	16999.6	19947.4	18651.1	10536.6
67.5°	1671.5	1617.1	1399.6	1261.8	1258.2	1883.6	9128.0	10957.2	14795.1	15768.6	9129.8
70°	1548.2	1504.7	1289.0	1136.7	1071.4	1183.8	4012.0	5252.0	9606.6	11363.3	7112.0
72.5°	1424.9	1374.2	1180.2	1017.0	931.8	886.5	1537.3	1999.6	5427.8	6812.9	4360.0
75°	1245.5	1220.1	1055.1	921.0	828.5	716.1	975.3	1113.1	2596.1	3129.1	2188.2
77.5°	1089.6	1062.4	937.3	804.9	737.9	581.9	692.5	756.0	1095.0	1269.0	988.0
80°	797.7	824.9	790.4	710.7	658.1	456.9	465.9	518.5	650.8	719.7	603.7
82.5°	505.8	556.6	609.1	547.5	498.5	360.8	322.7	342.6	444.2	471.4	268.3
85°	212.1	215.7	353.5	333.6	284.6	213.9	194.0	204.9	237.5	248.4	125.1
87.5°	81.6	79.8	125.1	116.0	88.8	61.6	61.6	68.9	94.3	87.0	39.9
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°	6957.9	6957.9	6957.9	6957.9	6957.9	6957.9	6957.9	6957.9	6957.9	6957.9	6957.9
2.5°	6981.5	6852.8	6597.2	6279.9	6047.8	5786.8	5556.5	5391.6	5329.9	5300.9	5246.5
5°	6976.1	6722.2	6192.9	5638.1	5192.2	4735.3	4349.2	4099.0	4077.2	3910.4	3894.1
7.5°	6977.9	6589.9	5746.9	4931.1	4251.3	3783.5	3464.5	3381.1	3281.4	3256.0	3268.7
10°	6983.3	6421.3	5268.3	4231.3	3573.2	3266.9	3147.2	3114.6	3118.2	3129.1	3130.9
12.5°	6990.6	6258.1	4771.6	3700.1	3192.5	3065.6	3052.9	3081.9	3112.8	3136.3	3141.8
15°	6999.6	6071.4	4287.5	3272.3	3002.2	2991.3	3033.0	3081.9	3125.4	3159.9	3165.3
17.5°	6988.7	5853.9	3881.4	3009.4	2897.0	2949.6	3018.5	3080.1	3120.0	3152.6	3156.3
20°	6963.4	5610.9	3489.8	2824.5	2831.8	2917.0	2991.3	3049.3	3092.8	3109.1	3121.8
22.5°	6865.5	5320.9	3149.0	2681.3	2753.8	2871.6	2960.5	2994.9	2946.0	2911.5	2920.6
25°	6698.7	4943.8	2831.8	2565.3	2683.1	2808.2	2898.8	2815.4	2775.6	2761.1	2768.3
27.5°	6490.2	4530.4	2592.5	2443.8	2592.5	2737.5	2712.1	2697.6	2679.5	2655.9	2661.3
30°	6265.4	4126.2	2389.4	2349.5	2494.6	2577.9	2588.8	2612.4	2592.5	2556.2	2570.7
32.5°	6056.9	3745.5	2235.3	2269.8	2425.7	2413.0	2494.6	2521.7	2429.3	2307.8	2313.3
35°	5879.2	3391.9	2119.3	2191.8	2307.8	2313.3	2394.8	2300.6	2200.9	2142.9	2146.5
37.5°	5745.1	3116.4	2043.1	2124.7	2157.4	2226.2	2182.7	2133.8	2121.1	2081.2	2083.0
40°	5665.3	2875.3	1994.2	2072.1	2066.7	2113.8	1974.3	2023.2	2041.3	2028.6	2030.5
42.5°	5585.6	2704.9	1943.4	1999.6	1997.8	1905.4	1874.5	1916.2	1963.4	1968.8	1965.2
45°	5522.1	2572.5	1890.9	1889.0	1925.3	1780.3	1771.2	1796.6	1863.7	1896.3	1894.5
47.5°	5451.4	2461.9	1811.1	1760.3	1771.2	1702.3	1687.8	1698.7	1780.3	1832.8	1847.3
50°	5362.6	2351.3	1711.4	1642.5	1597.2	1629.8	1633.4	1635.2	1716.8	1776.6	1789.3
52.5°	5291.9	2267.9	1597.2	1546.4	1492.0	1564.5	1591.7	1595.4	1644.3	1693.3	1702.3
55°	5333.6	2220.8	1484.8	1448.5	1399.6	1497.5	1550.0	1557.3	1568.2	1604.4	1609.9
57.5°	5458.7	2231.7	1394.1	1347.0	1310.7	1417.7	1506.5	1512.0	1504.7	1548.2	1555.5
60°	5496.7	2226.2	1327.0	1234.6	1212.8	1332.5	1443.1	1453.9	1452.1	1515.6	1528.3
62.5°	5337.2	2157.4	1260.0	1140.3	1125.8	1245.5	1354.2	1397.7	1406.8	1497.5	1513.8
65°	4961.9	2015.9	1171.1	1040.6	1040.6	1153.0	1269.0	1328.9	1354.2	1475.7	1493.8
67.5°	4467.0	1849.2	1080.5	955.4	951.8	1064.2	1178.4	1240.0	1279.9	1444.9	1455.8
70°	3707.4	1624.4	968.1	862.9	862.9	964.5	1067.8	1142.1	1200.1	1386.9	1386.9
72.5°	2539.9	1350.6	832.1	757.8	759.6	853.9	959.0	1042.4	1111.3	1270.8	1274.5
75°	1606.2	1055.1	683.5	645.4	652.6	741.5	850.3	937.3	1075.1	1256.3	1261.8
77.5°	853.9	741.5	543.9	534.8	543.9	625.5	746.9	866.6	1078.7	1089.6	1071.4
80°	552.9	525.7	429.7	411.5	415.2	504.0	665.3	823.1	866.6	877.4	837.6
82.5°	300.9	333.6	304.6	286.4	286.4	393.4	567.4	654.5	621.8	516.7	493.1
85°	128.7	155.9	157.7	137.8	132.3	242.9	380.7	357.1	331.8	317.3	313.6
87.5°	36.3	50.8	50.8	38.1	29.0	67.1	76.1	21.8	0.0	1.8	3.6
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)