

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: P646990

Luminaire Tested: **GALN-SA6C-835-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646990
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-SA6C-835-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 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: 32962.8 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

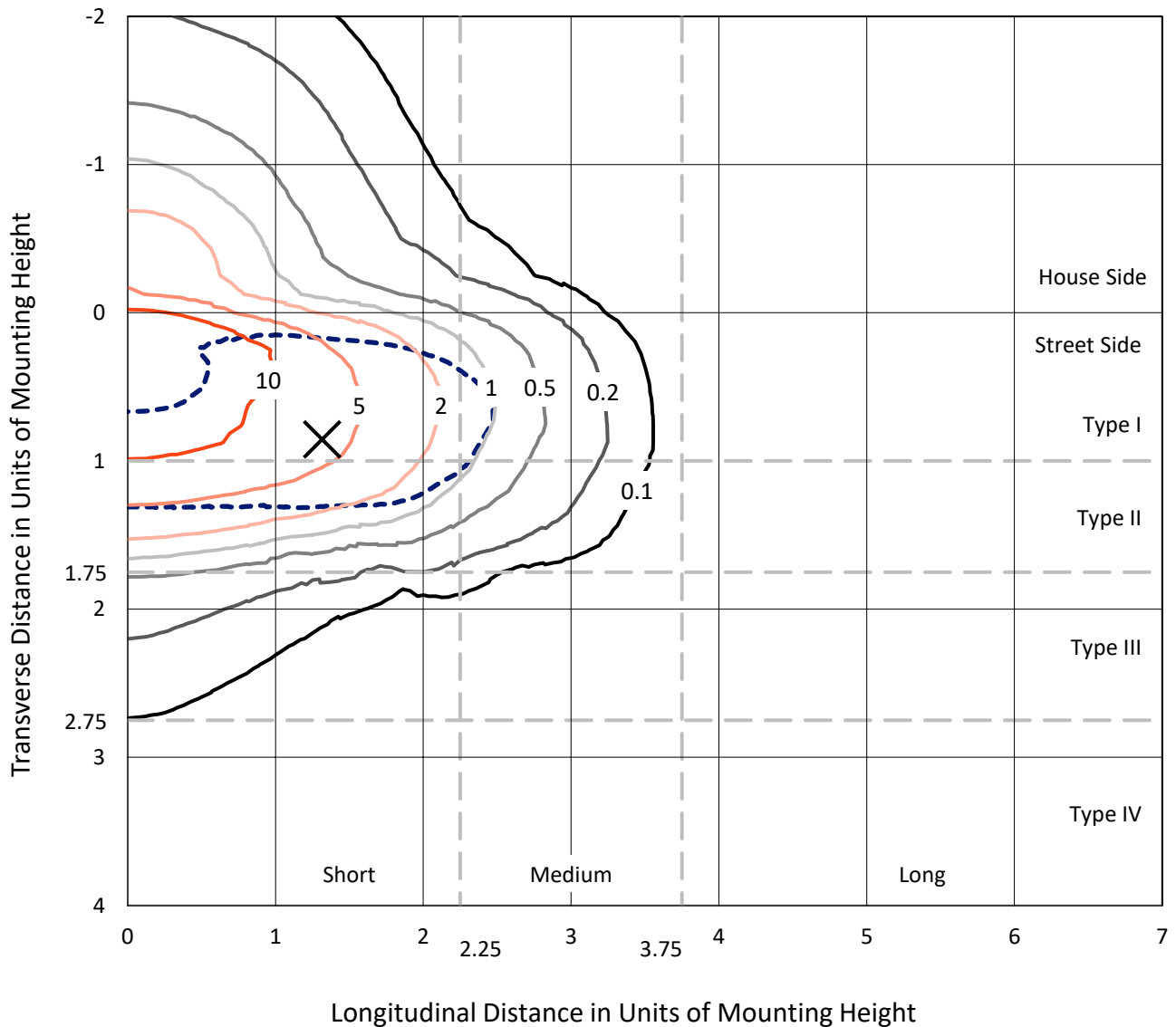
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P646990
 CATALOG NUMBER: GALN-SA6C-835-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

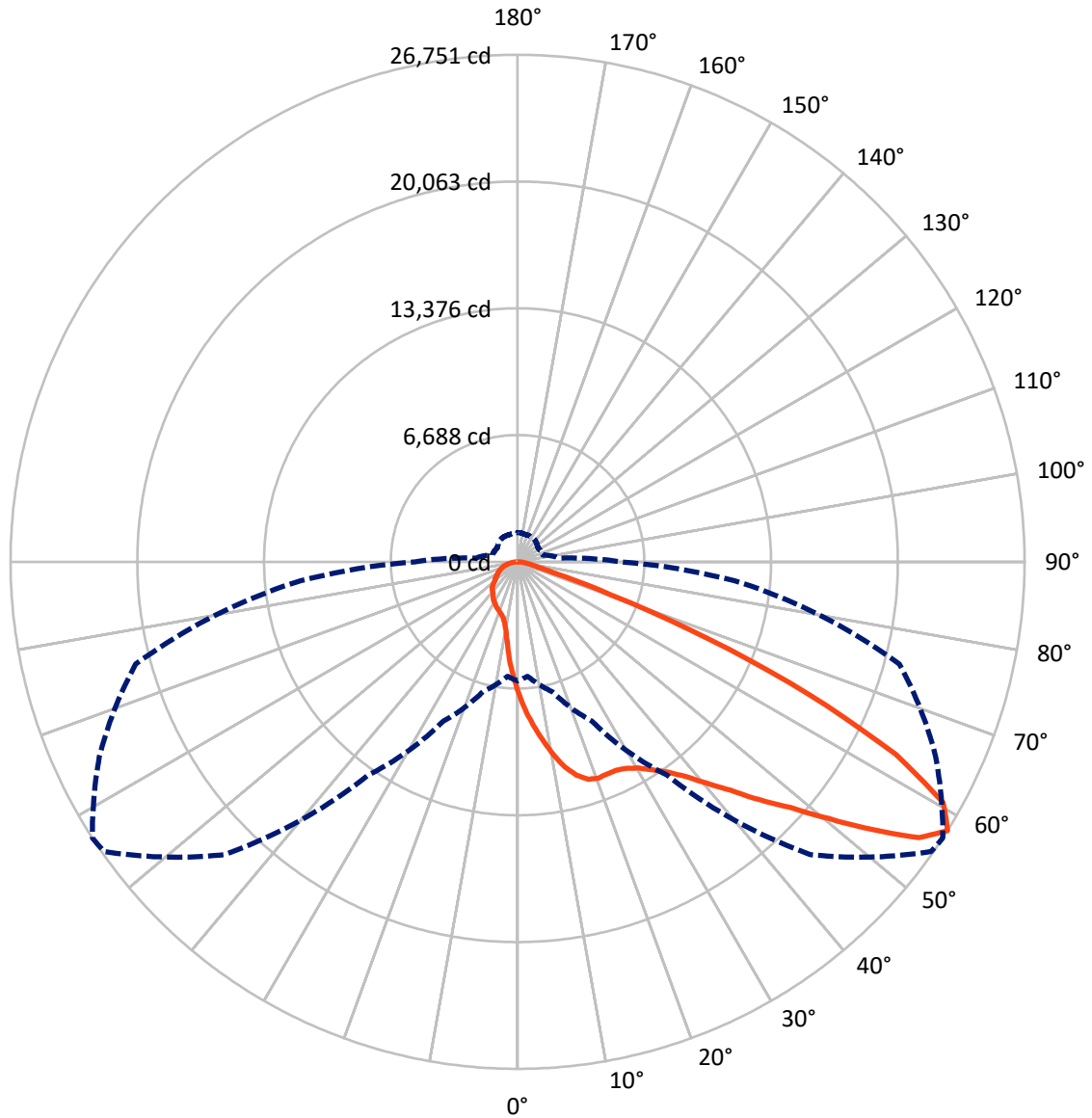
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P646990
CATALOG NUMBER: GALN-SA6C-835-U-AFL

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA6C-835-U-AFL

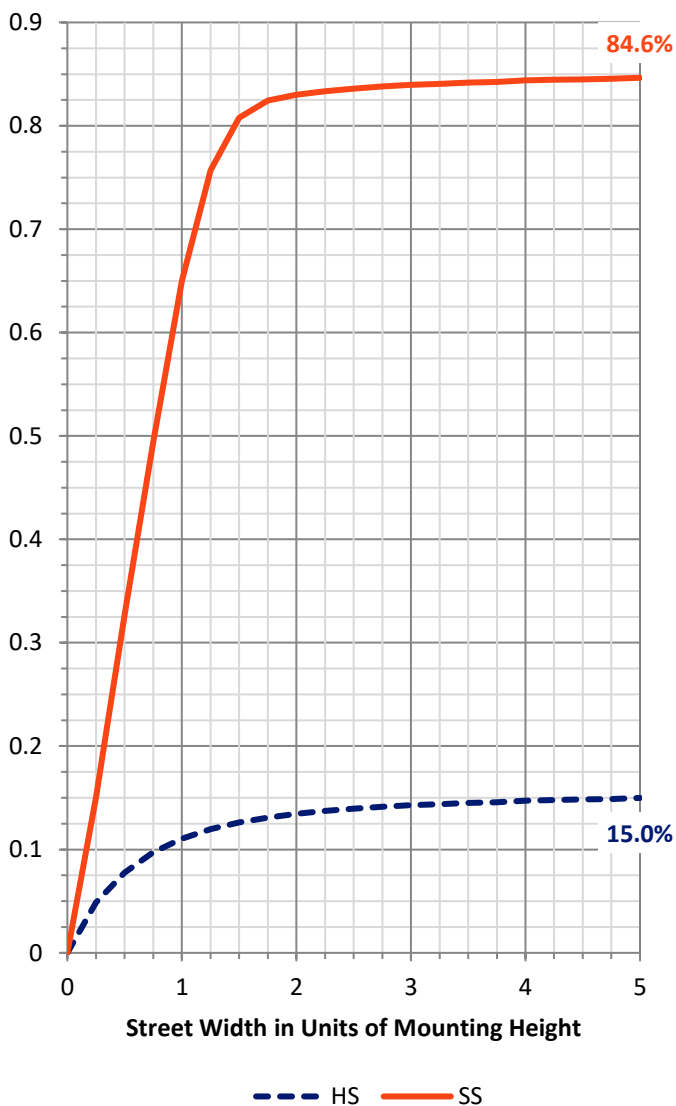
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5012.7	0.0	5012.7
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	27950.1	0.0	27950.1
	% Fixture	84.8	0.0	84.8
Total	Lumens	32962.8	0.0	32962.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.6	2.0
10°-20°	1961.5	6.0
20°-30°	3257.1	9.9
30°-40°	4906.1	14.9
40°-50°	7366.0	22.3
50°-60°	8256.4	25.0
60°-70°	4832.0	14.7
70°-80°	1429.3	4.3
80°-90°	288.9	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°	32962.8	100.0
0°-180°	32962.8	100.0

Coefficient of Utilization



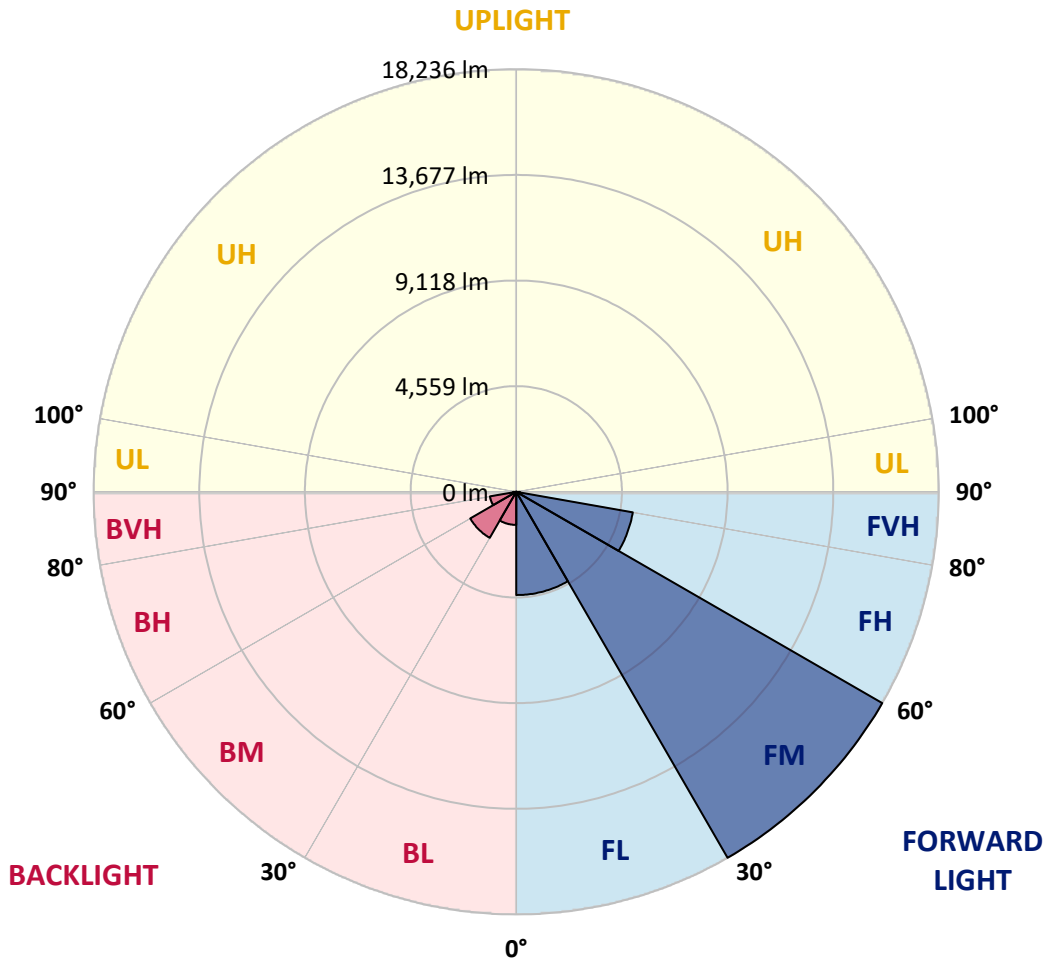
REPORT NUMBER: P646990
 CATALOG NUMBER: GALN-SA6C-835-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4455.8	13.5			
FM (30°-60°)	18236.4	55.3			
FH (60°-80°)	5107.9	15.5			G3/7500
FVH (80°-90°)	149.9	0.5			G2/225
BL (0°-30°)	1428.3	4.3	B3/2500		
BM (30°-60°)	2292.0	7.0	B2/2500		
BH (60°-80°)	1153.4	3.5	B3/2500		G3/2500
BVH (80°-90°)	139.0	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





REPORT NUMBER: P646990

CATALOG NUMBER: GALN-SA6C-835-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6925.1	6925.1	6925.1	6925.1	6925.1	6925.1	6925.1	6925.1	6925.1	6925.1	6925.1
2.5°	8604.9	8511.1	8437.1	8372.1	8287.4	8058.2	7829.1	7825.5	7643.3	7361.8	7073.1
5°	10006.9	9880.6	9896.9	9694.8	9492.7	9160.7	8675.3	8650.0	8262.1	7735.3	7199.4
7.5°	10920.0	10921.8	10871.2	10755.8	10537.4	10160.3	9610.0	9485.5	8945.9	8146.6	7343.7
10°	10873.0	10921.8	11006.6	11105.8	11172.5	10986.7	10485.1	10333.5	9631.6	8644.6	7504.3
12.5°	10248.7	10324.5	10445.4	10694.4	11096.8	11403.5	11232.1	11109.4	10425.6	9140.8	7681.2
15°	9859.0	9904.1	9970.8	10138.7	10571.7	11306.1	11749.9	11684.9	11174.3	9702.0	7879.6
17.5°	9739.9	9785.0	9806.6	9909.5	10218.0	10970.5	11953.8	12069.3	11838.3	10218.0	8079.9
20°	9859.0	9880.6	9880.6	9942.0	10183.8	10773.8	11944.8	12177.5	12383.2	10837.0	8267.5
22.5°	10171.1	10180.2	10167.5	10189.2	10369.6	10827.9	11860.0	12148.7	12823.5	11362.0	8413.6
25°	10678.2	10692.6	10609.6	10559.1	10690.8	11066.1	11906.9	12172.1	13168.2	11863.6	8511.1
27.5°	11253.7	11271.8	11170.7	11053.5	11114.8	11360.2	12090.9	12329.1	13426.2	12358.0	8572.4
30°	11959.2	11966.4	11796.8	11656.1	11616.4	11798.6	12404.9	12626.8	13747.4	12940.8	8664.5
32.5°	12681.0	12735.1	12516.8	12318.3	12251.5	12307.4	12868.6	13083.3	14129.9	13566.9	8812.4
35°	13662.6	13671.6	13409.9	13168.2	12948.0	13020.2	13462.3	13617.4	14658.5	14290.5	9021.7
37.5°	14887.6	14970.7	14609.8	14158.8	13888.1	13783.5	14180.4	14350.0	15400.1	15178.2	9337.5
40°	16248.2	16278.8	15970.3	15688.8	15194.4	14891.3	15165.5	15349.6	16314.9	16237.3	9703.8
42.5°	17103.5	17170.2	17193.7	17164.8	16793.1	16284.3	16388.9	16475.5	17397.6	17231.6	10079.1
45°	17392.2	17491.4	17827.0	18537.9	18577.6	18075.9	17832.4	17915.4	18577.6	18234.7	10438.2
47.5°	16914.0	17083.6	17702.5	19160.4	20252.0	20289.9	19555.5	19373.3	19653.0	19066.6	10698.0
50°	15678.0	15714.1	16661.4	18772.4	21036.9	22406.4	21646.8	21307.5	20674.3	19681.9	10876.7
52.5°	13765.4	13806.9	14600.8	16969.9	20553.4	23886.0	24093.5	23487.2	21711.7	20160.0	10993.9
55°	10218.0	10458.0	11331.3	13621.1	18261.8	23747.1	26038.6	25693.9	22965.8	20538.9	11178.0
57.5°	6282.7	6062.6	7098.3	9267.1	13734.7	21838.0	26639.4	26751.3	24346.1	20856.5	11486.5
60°	2890.6	2933.9	3361.5	4779.7	8372.1	17083.6	25091.3	25798.6	25109.3	20845.7	11564.0
62.5°	1992.0	1952.3	1844.0	2098.4	3818.0	10804.5	21193.9	22392.0	23579.3	20197.9	11255.5
65°	1780.9	1741.2	1531.9	1461.5	1753.8	4709.4	15407.3	16919.4	19853.3	18563.1	10486.9
67.5°	1663.6	1609.5	1393.0	1255.9	1252.3	1874.7	9084.9	10905.5	14725.3	15694.2	9086.7
70°	1540.9	1497.6	1282.9	1131.4	1066.4	1178.3	3993.0	5227.2	9561.2	11309.7	7078.5
72.5°	1418.2	1367.7	1174.7	1012.3	927.5	882.4	1530.1	1990.2	5402.2	6780.8	4339.5
75°	1239.6	1214.4	1050.2	916.6	824.6	712.7	970.8	1107.9	2583.8	3114.3	2177.8
77.5°	1084.4	1057.4	932.9	801.2	734.4	579.2	689.3	752.4	1089.9	1263.1	983.4
80°	793.9	821.0	786.7	707.3	655.0	454.7	463.7	516.1	647.8	716.3	600.9
82.5°	503.4	554.0	606.3	544.9	496.2	359.1	321.2	341.0	442.1	469.1	267.1
85°	211.1	214.7	351.9	332.0	283.3	212.9	193.1	203.9	236.4	247.2	124.5
87.5°	81.2	79.4	124.5	115.5	88.4	61.3	61.3	68.6	93.8	86.6	39.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P646990
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6925.1	6925.1	6925.1	6925.1	6925.1	6925.1	6925.1	6925.1	6925.1	6925.1	6925.1
2.5°	6948.6	6820.5	6566.0	6250.3	6019.3	5759.5	5530.3	5366.1	5304.8	5275.9	5221.7
5°	6943.2	6690.5	6163.6	5611.5	5167.6	4713.0	4328.7	4079.7	4058.0	3892.0	3875.8
7.5°	6945.0	6558.8	5719.8	4907.8	4231.2	3765.7	3448.1	3365.1	3265.9	3240.6	3253.2
10°	6950.4	6391.0	5243.4	4211.4	3556.4	3251.4	3132.3	3099.9	3103.5	3114.3	3116.1
12.5°	6957.6	6228.6	4749.1	3682.7	3177.5	3051.1	3038.5	3067.4	3098.1	3121.5	3126.9
15°	6966.6	6042.8	4267.3	3256.9	2988.0	2977.2	3018.7	3067.4	3110.7	3145.0	3150.4
17.5°	6955.8	5826.2	3863.1	2995.2	2883.3	2935.7	3004.2	3065.6	3105.3	3137.8	3141.4
20°	6930.5	5584.4	3473.4	2811.2	2818.4	2903.2	2977.2	3034.9	3078.2	3094.5	3107.1
22.5°	6833.1	5295.7	3134.2	2668.6	2740.8	2858.1	2946.5	2980.8	2932.1	2897.8	2906.8
25°	6667.1	4920.5	2818.4	2553.1	2670.4	2794.9	2885.1	2802.1	2762.4	2748.0	2755.2
27.5°	6459.6	4509.1	2580.2	2432.2	2580.2	2724.6	2699.3	2684.9	2666.8	2643.4	2648.8
30°	6235.8	4106.7	2378.1	2338.4	2482.8	2565.8	2576.6	2600.0	2580.2	2544.1	2558.5
32.5°	6028.3	3727.8	2224.7	2259.0	2414.2	2401.6	2482.8	2509.8	2417.8	2296.9	2302.3
35°	5851.5	3375.9	2109.2	2181.4	2296.9	2302.3	2383.5	2289.7	2190.4	2132.7	2136.3
37.5°	5718.0	3101.7	2033.5	2114.7	2147.1	2215.7	2172.4	2123.7	2111.1	2071.4	2073.2
40°	5638.6	2861.7	1984.7	2062.3	2056.9	2103.8	1964.9	2013.6	2031.7	2019.0	2020.8
42.5°	5559.2	2692.1	1934.2	1990.2	1988.4	1896.3	1865.7	1907.2	1954.1	1959.5	1955.9
45°	5496.0	2560.4	1881.9	1880.1	1916.2	1771.9	1762.8	1788.1	1854.8	1887.3	1885.5
47.5°	5425.6	2450.3	1802.5	1752.0	1762.8	1694.3	1679.8	1690.7	1771.9	1824.2	1838.6
50°	5337.2	2340.2	1703.3	1634.7	1589.6	1622.1	1625.7	1627.5	1708.7	1768.2	1780.9
52.5°	5266.9	2257.2	1589.6	1539.1	1485.0	1557.2	1584.2	1587.8	1636.5	1685.3	1694.3
55°	5308.4	2210.3	1477.8	1441.7	1393.0	1490.4	1542.7	1549.9	1560.8	1596.9	1602.3
57.5°	5432.9	2221.1	1387.6	1340.7	1304.6	1411.0	1499.4	1504.8	1497.6	1540.9	1548.1
60°	5470.8	2215.7	1320.8	1228.8	1207.1	1326.2	1436.3	1447.1	1445.3	1508.4	1521.1
62.5°	5312.0	2147.1	1254.1	1135.0	1120.5	1239.6	1347.9	1391.2	1400.2	1490.4	1506.6
65°	4938.5	2006.4	1165.6	1035.7	1035.7	1147.6	1263.1	1322.6	1347.9	1468.8	1486.8
67.5°	4446.0	1840.4	1075.4	950.9	947.3	1059.2	1172.9	1234.2	1273.9	1438.1	1448.9
70°	3689.9	1616.7	963.6	858.9	858.9	959.9	1062.8	1136.8	1194.5	1380.4	1380.4
72.5°	2527.9	1344.3	828.2	754.2	756.0	849.9	954.5	1037.5	1106.1	1264.9	1268.5
75°	1598.7	1050.2	680.3	642.4	649.6	738.0	846.3	932.9	1070.0	1250.5	1255.9
77.5°	849.9	738.0	541.3	532.3	541.3	622.5	743.4	862.5	1073.6	1084.4	1066.4
80°	550.3	523.3	427.6	409.6	413.2	501.6	662.2	819.2	862.5	873.3	833.6
82.5°	299.5	332.0	303.1	285.1	285.1	391.6	564.8	651.4	618.9	514.3	490.8
85°	128.1	155.2	157.0	137.1	131.7	241.8	378.9	355.5	330.2	315.8	312.2
87.5°	36.1	50.5	50.5	37.9	28.9	66.8	75.8	21.7	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)