

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: P647430

Luminaire Tested: **GALN-SA5D-835-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647430
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-SA5D-835-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 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: 30631 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

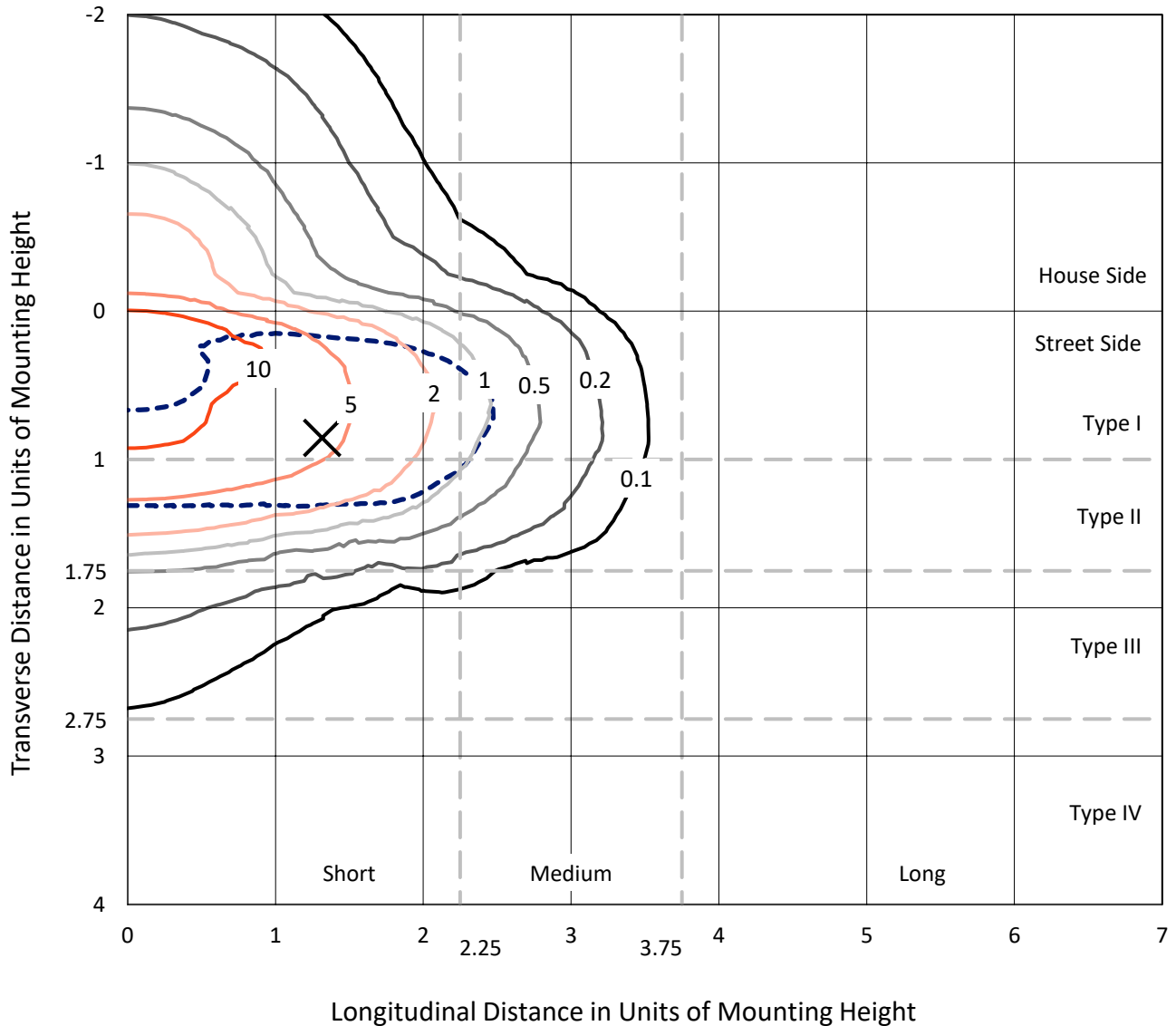
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

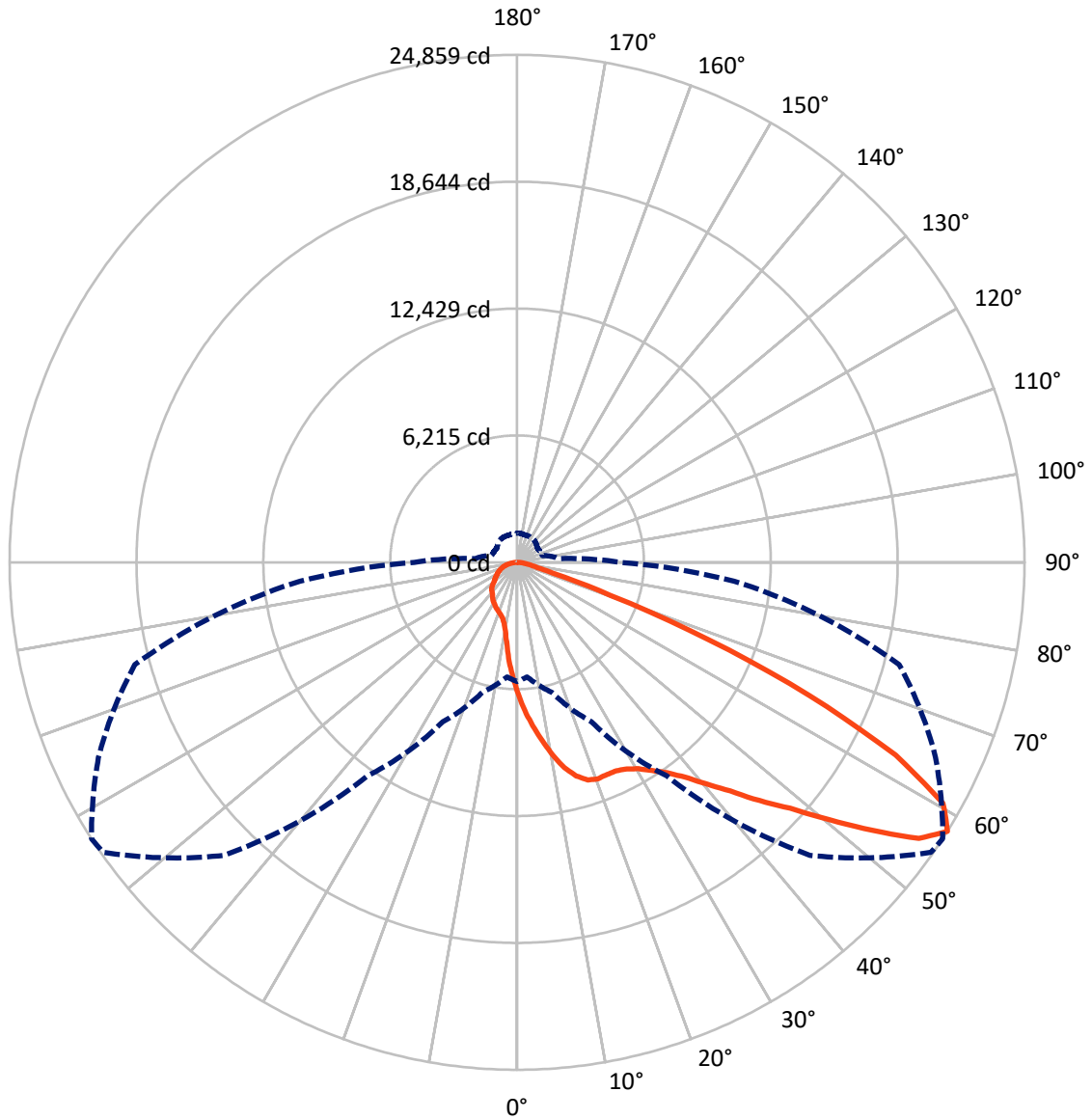
✕ Max cd
 - - - 1/2 Max cd



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

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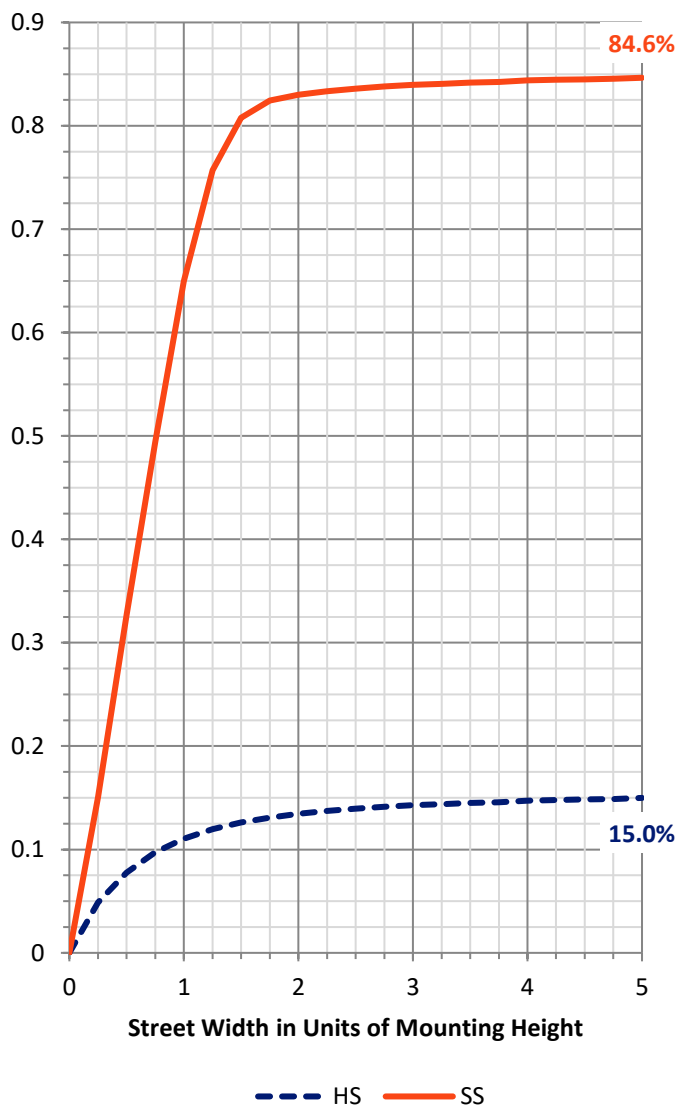
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4658.1	0.0	4658.1
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	25972.8	0.0	25972.8
	% Fixture	84.8	0.0	84.8
Total	Lumens	30631.0	0.0	30631.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.5	2.0
10°-20°	1822.7	6.0
20°-30°	3026.7	9.9
30°-40°	4559.0	14.9
40°-50°	6844.9	22.3
50°-60°	7672.3	25.0
60°-70°	4490.2	14.7
70°-80°	1328.2	4.3
80°-90°	268.5	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°	30631.0	100.0
0°-180°	30631.0	100.0

Coefficient of Utilization



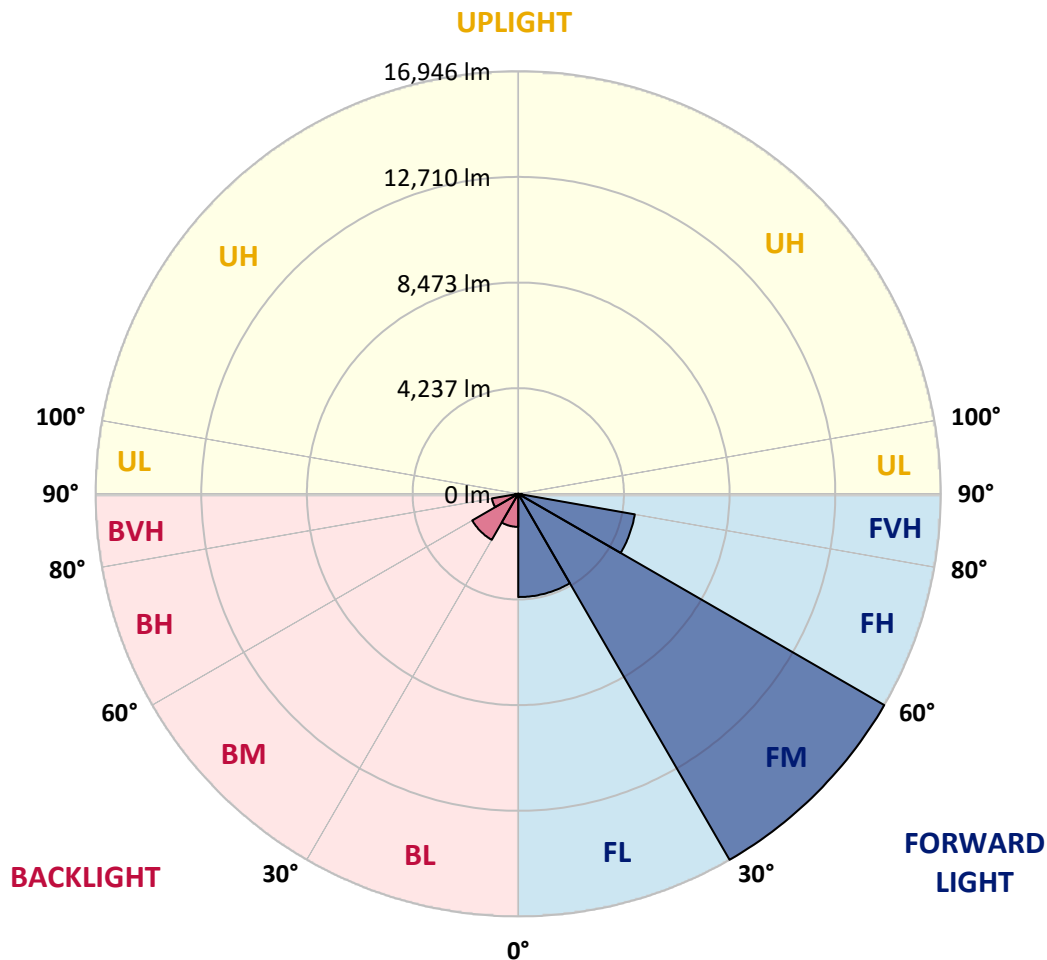
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4140.6	13.5			
FM (30°-60°)	16946.4	55.3			
FH (60°-80°)	4746.6	15.5			G2/5000
FVH (80°-90°)	139.3	0.5			G2/225
BL (0°-30°)	1327.3	4.3	B3/2500		
BM (30°-60°)	2129.9	7.0	B2/2500		
BH (60°-80°)	1071.8	3.5	B3/2500		G3/2500
BVH (80°-90°)	129.2	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°	6435.2	6435.2	6435.2	6435.2	6435.2	6435.2	6435.2	6435.2	6435.2	6435.2	6435.2
2.5°	7996.2	7909.0	7840.3	7780.0	7701.1	7488.2	7275.2	7271.9	7102.5	6841.0	6572.7
5°	9299.1	9181.7	9196.7	9009.0	8821.2	8512.6	8061.6	8038.1	7677.6	7188.0	6690.1
7.5°	10147.4	10149.1	10102.2	9994.8	9792.0	9441.6	8930.2	8814.5	8313.1	7570.4	6824.2
10°	10103.8	10149.1	10227.9	10320.2	10382.2	10209.5	9743.3	9602.6	8950.3	8033.1	6973.5
12.5°	9523.7	9594.1	9706.5	9937.8	10311.8	10596.8	10437.5	10323.5	9688.1	8494.2	7137.7
15°	9161.6	9203.5	9265.5	9421.4	9823.8	10506.3	10918.7	10858.4	10383.8	9015.7	7322.2
17.5°	9050.9	9092.8	9112.9	9208.5	9495.2	10194.4	11108.2	11215.5	11000.9	9495.2	7508.3
20°	9161.6	9181.7	9181.7	9238.7	9463.3	10011.7	11099.8	11316.2	11507.3	10070.3	7682.7
22.5°	9451.6	9460.0	9448.2	9468.3	9636.1	10061.9	11021.0	11289.3	11916.4	10558.2	7818.5
25°	9922.8	9936.2	9859.1	9812.1	9934.5	10283.3	11064.6	11311.1	12236.6	11024.4	7909.0
27.5°	10457.7	10474.4	10380.5	10271.6	10328.6	10556.6	11235.7	11456.9	12476.4	11483.8	7966.1
30°	11113.2	11119.9	10962.3	10831.6	10794.7	10964.0	11527.4	11733.6	12774.9	12025.4	8051.6
32.5°	11783.9	11834.2	11631.3	11446.9	11384.9	11436.8	11958.3	12157.8	13130.3	12607.2	8189.1
35°	12696.0	12704.4	12461.3	12236.6	12032.0	12099.2	12509.9	12654.1	13621.6	13279.5	8383.6
37.5°	13834.5	13911.6	13576.4	13157.1	12905.6	12808.4	13177.3	13334.9	14310.7	14104.5	8677.0
40°	15098.7	15127.2	14840.6	14579.0	14119.6	13837.9	14092.7	14263.8	15160.8	15088.7	9017.3
42.5°	15893.6	15955.6	15977.3	15950.6	15605.1	15132.3	15229.6	15310.1	16166.8	16012.6	9366.1
45°	16161.8	16254.1	16565.9	17226.5	17263.4	16797.3	16570.9	16648.1	17263.4	16944.8	9699.8
47.5°	15717.5	15875.1	16450.2	17805.0	18819.4	18854.6	18172.2	18002.8	18262.7	17717.8	9941.2
50°	14569.0	14602.5	15482.7	17444.5	19548.8	20821.4	20115.5	19800.3	19211.8	18289.5	10107.2
52.5°	12791.6	12830.2	13567.9	15769.5	19099.4	22196.3	22389.1	21825.7	20175.9	18733.9	10216.2
55°	9495.2	9718.2	10529.7	12657.5	16970.0	22067.2	24196.6	23876.3	21341.1	19086.0	10387.2
57.5°	5838.3	5633.8	6596.1	8611.6	12763.1	20293.2	24754.9	24858.9	22623.8	19381.1	10673.9
60°	2686.1	2726.3	3123.7	4441.6	7780.0	15875.1	23316.3	23973.6	23333.1	19371.0	10746.0
62.5°	1851.1	1814.2	1713.6	1950.0	3547.9	10040.2	19694.6	20808.0	21911.2	18769.1	10459.3
65°	1654.9	1618.0	1423.5	1358.1	1629.7	4376.2	14317.5	15722.5	18448.8	17250.0	9745.1
67.5°	1546.0	1495.6	1294.5	1167.0	1163.6	1742.1	8442.2	10134.1	13683.6	14584.0	8444.0
70°	1431.9	1391.7	1192.1	1051.3	991.0	1094.9	3710.6	4857.4	8884.9	10509.6	6577.7
72.5°	1317.9	1271.0	1091.5	940.6	861.8	819.9	1421.8	1849.4	5020.0	6301.1	4032.4
75°	1151.9	1128.5	975.9	851.7	766.2	662.3	902.1	1029.5	2401.1	2894.0	2023.8
77.5°	1007.7	982.6	866.9	744.5	682.4	538.2	640.5	699.2	1012.7	1173.7	913.8
80°	737.7	762.9	731.0	657.3	608.6	422.5	430.9	479.5	602.0	665.6	558.4
82.5°	467.8	514.7	563.4	506.4	461.1	333.6	298.5	316.9	410.8	436.0	248.1
85°	196.1	199.5	327.0	308.5	263.2	197.9	179.4	189.5	219.6	229.7	115.7
87.5°	75.5	73.8	115.7	107.3	82.1	57.0	57.0	63.7	87.2	80.5	36.9
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°	6435.2	6435.2	6435.2	6435.2	6435.2	6435.2	6435.2	6435.2	6435.2	6435.2	6435.2
2.5°	6457.0	6338.0	6101.5	5808.1	5593.5	5352.0	5139.1	4986.5	4929.5	4902.7	4852.4
5°	6452.0	6217.3	5727.6	5214.5	4802.1	4379.6	4022.4	3791.1	3770.9	3616.7	3601.6
7.5°	6453.6	6094.9	5315.2	4560.7	3931.9	3499.3	3204.2	3127.1	3034.8	3011.3	3023.1
10°	6458.7	5938.9	4872.5	3913.4	3304.8	3021.4	2910.8	2880.6	2883.9	2894.0	2895.7
12.5°	6465.4	5788.0	4413.1	3422.2	2952.7	2835.3	2823.6	2850.4	2878.9	2900.7	2905.7
15°	6473.8	5615.3	3965.4	3026.5	2776.6	2766.6	2805.1	2850.4	2890.7	2922.5	2927.6
17.5°	6463.7	5414.1	3589.8	2783.3	2679.3	2728.0	2791.7	2848.7	2885.6	2915.8	2919.2
20°	6440.3	5189.4	3227.7	2612.3	2619.1	2697.8	2766.6	2820.2	2860.5	2875.6	2887.3
22.5°	6349.7	4921.2	2912.4	2479.8	2546.9	2655.9	2738.1	2769.9	2724.7	2692.8	2701.2
25°	6195.4	4572.4	2619.1	2372.6	2481.6	2597.2	2681.1	2603.9	2567.1	2553.6	2560.3
27.5°	6002.6	4190.1	2397.7	2260.2	2397.7	2531.8	2508.3	2495.0	2478.2	2456.3	2461.4
30°	5794.7	3816.2	2209.9	2173.0	2307.2	2384.3	2394.3	2416.1	2397.7	2364.2	2377.6
32.5°	5601.9	3464.1	2067.4	2099.2	2243.5	2231.7	2307.2	2332.3	2246.8	2134.5	2139.5
35°	5437.5	3137.1	1960.1	2027.1	2134.5	2139.5	2215.0	2127.7	2035.6	1981.9	1985.2
37.5°	5313.5	2882.3	1889.6	1965.1	1995.3	2059.0	2018.7	1973.5	1961.7	1924.8	1926.6
40°	5239.8	2659.2	1844.4	1916.5	1911.5	1955.1	1826.0	1871.2	1888.0	1876.2	1877.9
42.5°	5165.9	2501.7	1797.5	1849.4	1847.7	1762.2	1733.7	1772.3	1815.9	1820.9	1817.6
45°	5107.3	2379.2	1748.8	1747.1	1780.7	1646.5	1638.1	1661.6	1723.7	1753.8	1752.2
47.5°	5041.9	2277.0	1675.1	1628.1	1638.1	1574.5	1561.0	1571.1	1646.5	1695.1	1708.6
50°	4959.7	2174.7	1582.8	1519.1	1477.2	1507.4	1510.7	1512.4	1587.8	1643.2	1654.9
52.5°	4894.3	2097.6	1477.2	1430.2	1380.0	1447.0	1472.1	1475.5	1520.7	1566.1	1574.5
55°	4932.9	2054.0	1373.2	1339.7	1294.5	1385.0	1433.6	1440.3	1450.4	1483.9	1489.0
57.5°	5048.5	2064.1	1289.4	1245.8	1212.2	1311.2	1393.3	1398.4	1391.7	1431.9	1438.6
60°	5083.8	2059.0	1227.4	1141.8	1121.7	1232.4	1334.6	1344.7	1343.1	1401.7	1413.5
62.5°	4936.3	1995.3	1165.3	1054.6	1041.2	1151.9	1252.5	1292.7	1301.1	1385.0	1400.1
65°	4589.2	1864.5	1083.1	962.5	962.5	1066.4	1173.7	1229.0	1252.5	1364.8	1381.6
67.5°	4131.4	1710.2	999.3	883.6	880.2	984.2	1089.9	1146.9	1183.7	1336.3	1346.4
70°	3428.8	1502.3	895.4	798.1	798.1	892.0	987.6	1056.3	1110.0	1282.7	1282.7
72.5°	2349.1	1249.1	769.6	700.9	702.5	789.7	887.0	964.1	1027.8	1175.4	1178.7
75°	1485.6	975.9	632.1	596.9	603.6	685.8	786.4	866.9	994.3	1162.0	1167.0
77.5°	789.7	685.8	503.0	494.6	503.0	578.5	690.8	801.5	997.6	1007.7	991.0
80°	511.4	486.2	397.4	380.6	384.0	466.1	615.4	761.2	801.5	811.5	774.6
82.5°	278.4	308.5	281.7	264.9	264.9	363.9	524.8	605.3	575.1	477.9	456.1
85°	119.0	144.2	145.9	127.4	122.4	224.6	352.1	330.3	306.9	293.4	290.1
87.5°	33.5	47.0	47.0	35.2	26.9	62.0	70.4	20.1	0.0	1.6	3.4
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)