

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: P651500

Luminaire Tested: **GALN-SA7D-840-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651500
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-SA7D-840-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45758.8 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

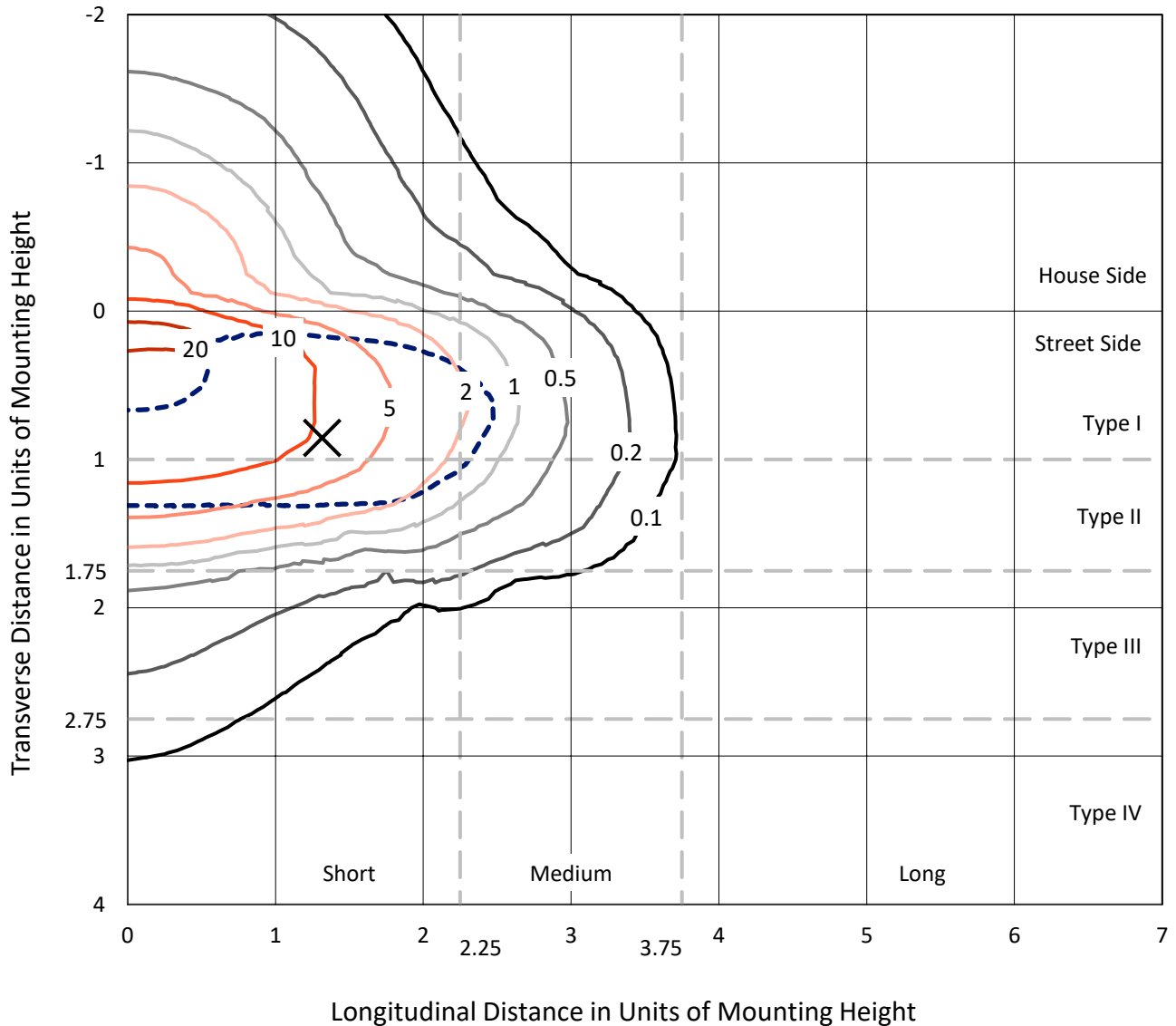
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651500
 CATALOG NUMBER: GALN-SA7D-840-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

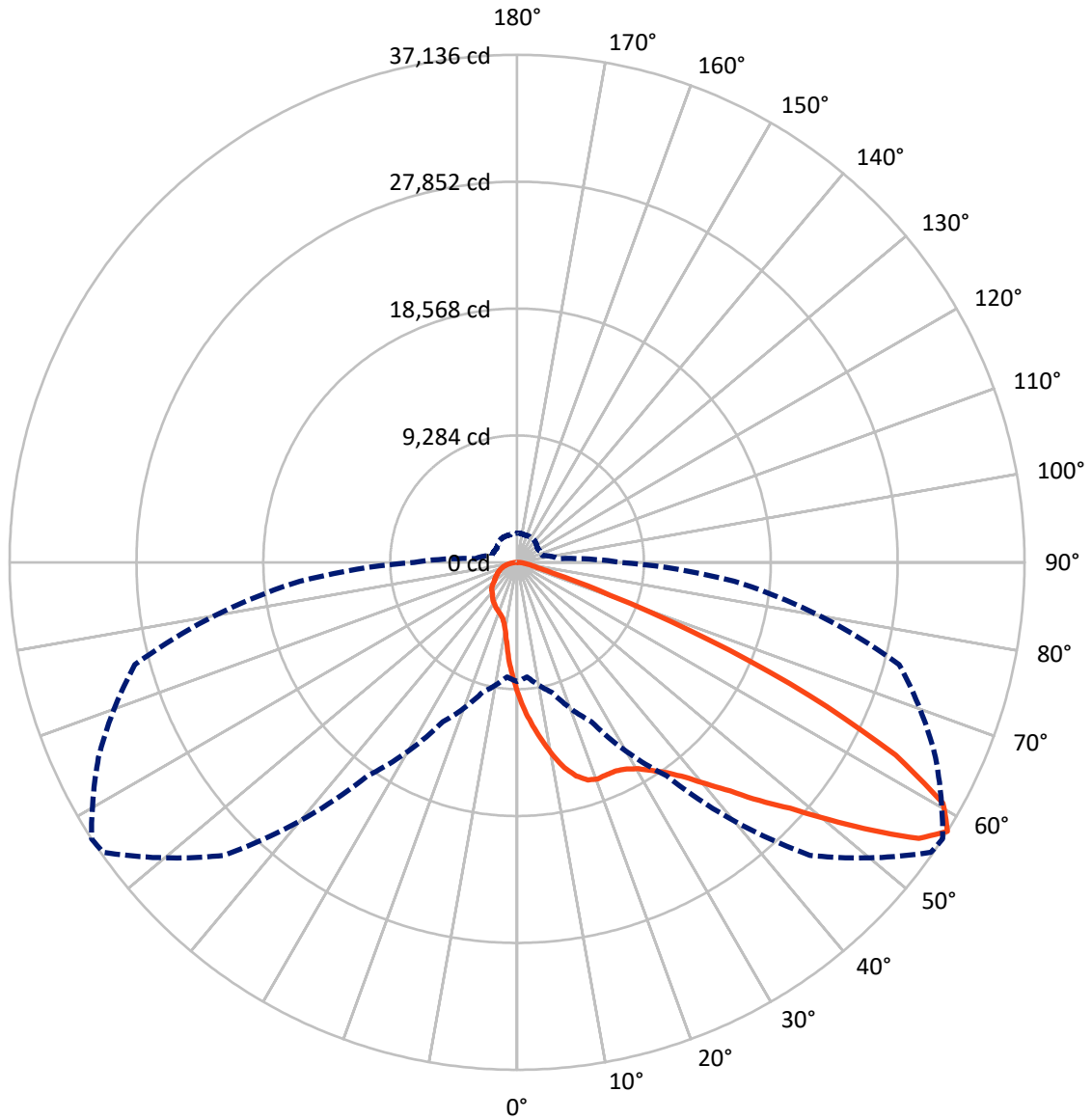
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 fc
 Type II - Short - N/A

REPORT NUMBER: P651500
CATALOG NUMBER: GALN-SA7D-840-U-AFL

Luminous Intensity Polar Plot



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

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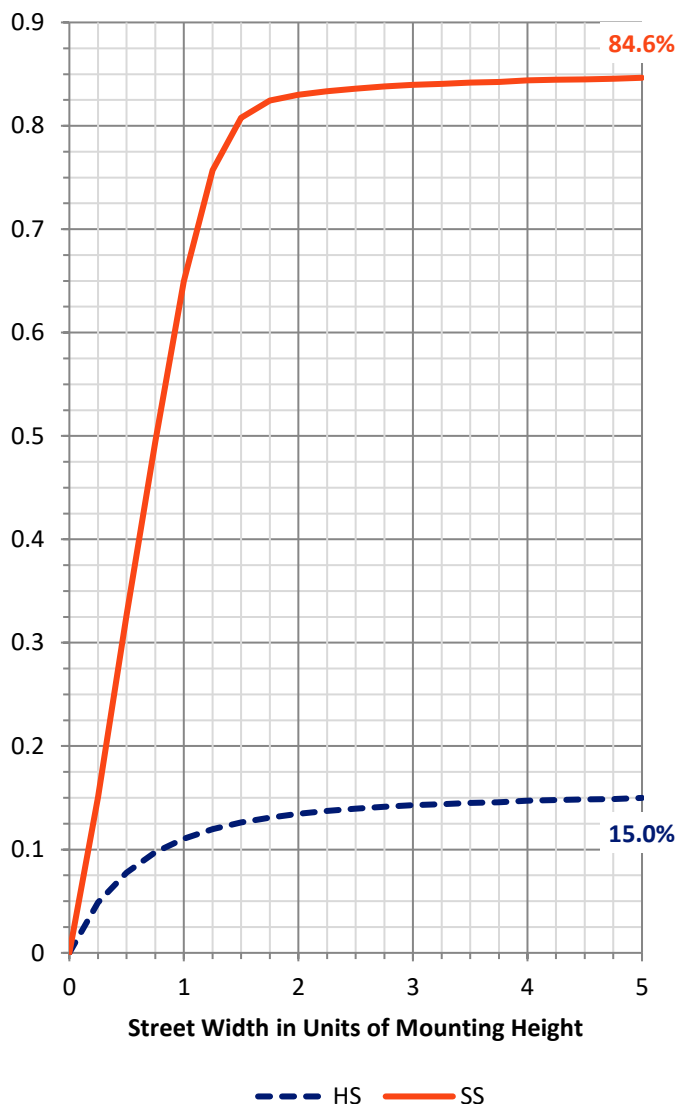
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6958.6	0.0	6958.6
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	38800.2	0.0	38800.2
	% Fixture	84.8	0.0	84.8
Total	Lumens	45758.8	0.0	45758.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	923.9	2.0
10°-20°	2722.9	6.0
20°-30°	4521.4	9.9
30°-40°	6810.6	14.9
40°-50°	10225.5	22.3
50°-60°	11461.5	25.0
60°-70°	6707.8	14.7
70°-80°	1984.1	4.3
80°-90°	401.0	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°	45758.8	100.0
0°-180°	45758.8	100.0

Coefficient of Utilization

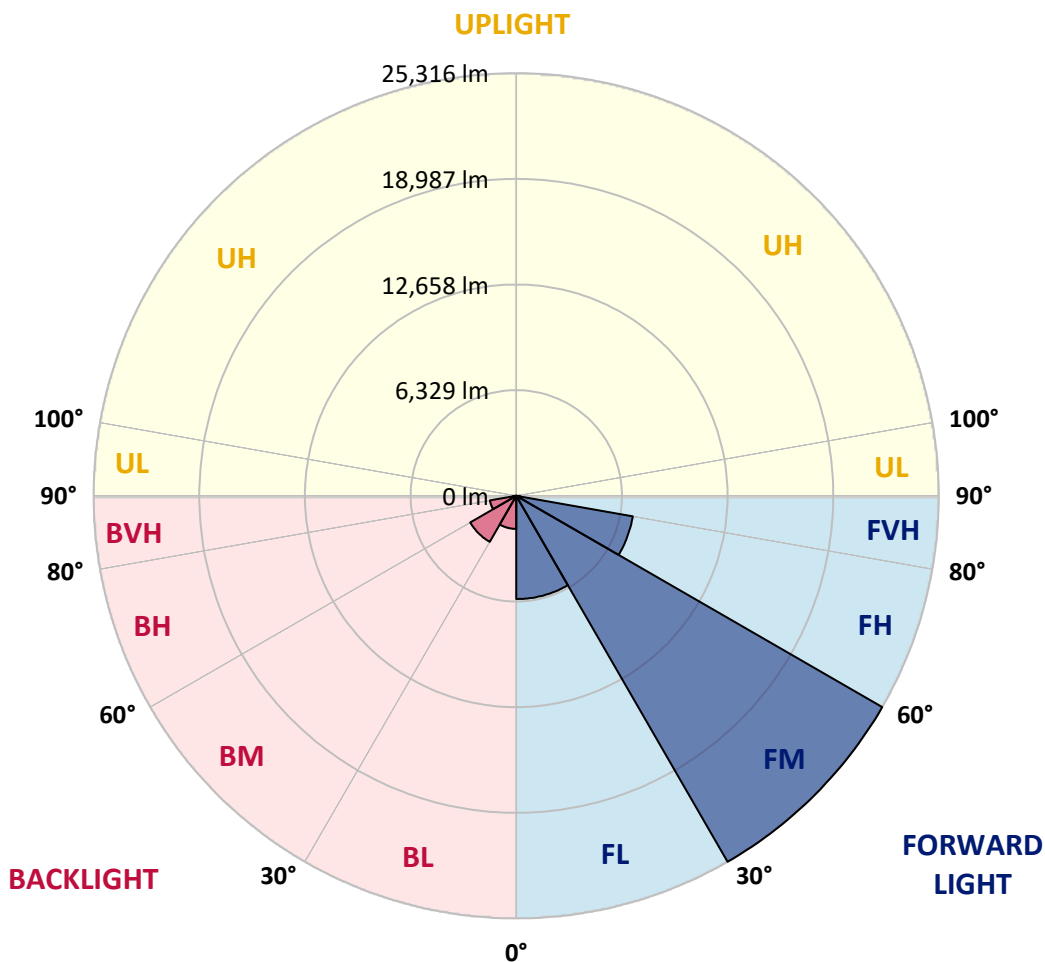


REPORT NUMBER: P651500
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6185.5	13.5			
FM (30°-60°)	25315.8	55.3			
FH (60°-80°)	7090.8	15.5			G3/7500
FVH (80°-90°)	208.1	0.5			G2/225
BL (0°-30°)	1982.8	4.3	B3/2500		
BM (30°-60°)	3181.8	7.0	B3/5000		
BH (60°-80°)	1601.1	3.5	B3/2500		G3/2500
BVH (80°-90°)	193.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	9613.4	9613.4	9613.4	9613.4	9613.4	9613.4	9613.4	9613.4	9613.4	9613.4	9613.4
2.5°	11945.4	11815.1	11712.4	11622.3	11504.5	11186.4	10868.3	10863.3	10610.3	10219.6	9818.8
5°	13891.6	13716.3	13738.8	13458.3	13177.7	12716.8	12043.0	12008.0	11469.5	10738.1	9994.1
7.5°	15159.0	15161.5	15091.4	14931.1	14628.0	14104.5	13340.5	13167.7	12418.8	11309.2	10194.5
10°	15093.9	15161.5	15279.3	15417.0	15509.7	15251.7	14555.4	14344.9	13370.6	12000.5	10417.5
12.5°	14227.2	14332.4	14500.3	14845.9	15404.5	15830.3	15592.3	15422.0	14472.7	12689.3	10662.9
15°	13686.2	13748.8	13841.5	14074.5	14675.6	15695.1	16311.2	16221.0	15512.2	13468.3	10938.5
17.5°	13520.8	13583.5	13613.5	13756.3	14184.6	15229.2	16594.3	16754.6	16434.0	14184.6	11216.5
20°	13686.2	13716.3	13716.3	13801.4	14137.0	14956.1	16581.7	16904.9	17190.4	15043.8	11477.0
22.5°	14119.5	14132.1	14114.5	14144.6	14395.1	15031.3	16464.0	16864.7	17801.6	15772.7	11679.9
25°	14823.4	14843.4	14728.2	14658.0	14840.9	15361.9	16529.2	16897.4	18280.0	16469.1	11815.1
27.5°	15622.4	15647.5	15507.2	15344.4	15429.6	15770.2	16784.6	17115.3	18638.2	17155.3	11900.3
30°	16601.8	16611.8	16376.4	16181.0	16125.8	16378.8	17220.5	17528.5	19084.1	17964.3	12028.1
32.5°	17603.7	17678.8	17375.7	17100.2	17007.5	17085.2	17864.2	18162.2	19615.1	18833.5	12233.4
35°	18966.3	18978.8	18615.6	18280.0	17974.4	18074.6	18688.3	18903.7	20348.9	19838.0	12524.0
37.5°	20667.1	20782.3	20281.3	19655.1	19279.4	19134.1	19685.2	19920.6	21378.4	21070.3	12962.3
40°	22555.7	22598.3	22169.9	21779.2	21092.9	20672.0	21052.8	21308.2	22648.4	22540.7	13470.8
42.5°	23742.9	23835.6	23868.2	23828.1	23312.1	22605.7	22751.1	22871.2	24151.2	23920.8	13991.8
45°	24143.7	24281.5	24747.4	25734.3	25789.3	25093.0	24754.9	24870.1	25789.3	25313.4	14490.3
47.5°	23480.0	23715.4	24574.5	26598.4	28113.8	28166.4	27147.0	26894.0	27282.2	26468.2	14851.0
50°	21764.2	21814.3	23129.3	26059.9	29203.4	31104.6	30050.0	29579.1	28700.0	27322.3	15098.9
52.5°	19109.1	19166.7	20268.8	23557.6	28532.1	33158.4	33446.5	32604.9	30140.2	27986.0	15261.7
55°	14184.6	14517.8	15730.1	18908.7	25351.0	32965.6	36146.7	35668.2	31881.0	28512.1	15517.2
57.5°	8721.7	8416.1	9853.8	12864.6	19066.5	30315.5	36980.8	37136.1	33797.2	28952.9	15945.5
60°	4012.7	4072.8	4666.5	6635.2	11622.3	23715.4	34831.7	35813.6	34856.8	28937.9	16053.3
62.5°	2765.3	2710.2	2559.9	2913.1	5300.2	14998.7	29421.3	31084.5	32732.6	28038.7	15624.9
65°	2472.2	2417.1	2126.6	2028.9	2434.7	6537.5	21388.5	23487.4	27560.2	25769.3	14557.9
67.5°	2309.4	2234.3	1933.7	1743.3	1738.3	2602.5	12611.6	15139.0	20441.6	21786.7	12614.2
70°	2139.1	2079.0	1780.9	1570.5	1480.3	1635.7	5543.1	7256.4	13272.9	15700.0	9826.3
72.5°	1968.8	1898.6	1630.6	1405.2	1287.5	1224.8	2124.0	2762.8	7499.4	9413.1	6024.0
75°	1720.8	1685.7	1457.8	1272.4	1144.7	989.4	1347.6	1537.9	3586.9	4323.2	3023.3
77.5°	1505.4	1467.8	1295.0	1112.1	1019.5	804.1	956.8	1044.5	1512.9	1753.3	1365.1
80°	1102.1	1139.7	1092.1	981.9	909.2	631.2	643.7	716.4	899.2	994.4	834.1
82.5°	698.9	769.0	841.6	756.5	688.8	498.5	445.8	473.4	613.7	651.3	370.7
85°	293.1	298.1	488.5	460.9	393.3	295.5	268.0	283.1	328.2	343.1	172.8
87.5°	112.7	110.2	172.8	160.3	122.7	85.2	85.2	95.2	130.3	120.3	55.1
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°	9613.4	9613.4	9613.4	9613.4	9613.4	9613.4	9613.4	9613.4	9613.4	9613.4	9613.4
2.5°	9645.9	9468.1	9114.9	8676.6	8356.0	7995.3	7677.2	7449.2	7364.1	7324.0	7248.9
5°	9638.4	9287.8	8556.4	7789.9	7173.7	6542.6	6009.0	5663.4	5633.3	5402.8	5380.3
7.5°	9641.0	9104.9	7940.2	6813.0	5873.7	5227.5	4786.6	4671.4	4533.7	4498.6	4516.2
10°	9648.5	8872.0	7278.9	5846.2	4936.9	4513.6	4348.3	4303.2	4308.3	4323.2	4325.8
12.5°	9658.5	8646.6	6592.6	5112.3	4411.0	4235.6	4218.0	4258.2	4300.7	4333.3	4340.8
15°	9671.0	8388.6	5923.8	4521.1	4148.0	4132.9	4190.5	4258.2	4318.3	4365.9	4373.4
17.5°	9656.0	8088.0	5362.8	4158.0	4002.7	4075.3	4170.5	4255.6	4310.7	4355.9	4360.8
20°	9621.0	7752.3	4821.7	3902.5	3912.5	4030.2	4132.9	4213.1	4273.2	4295.7	4313.2
22.5°	9485.6	7351.6	4350.8	3704.6	3804.8	3967.6	4090.4	4137.9	4070.3	4022.7	4035.2
25°	9255.2	6830.6	3912.5	3544.3	3707.1	3880.0	4005.2	3890.0	3834.9	3814.8	3824.8
27.5°	8967.2	6259.5	3581.8	3376.4	3581.8	3782.2	3747.2	3727.1	3702.1	3669.5	3677.0
30°	8656.6	5700.9	3301.3	3246.2	3446.6	3561.8	3576.9	3609.4	3581.8	3531.8	3551.8
32.5°	8368.5	5174.9	3088.4	3136.0	3351.4	3333.9	3446.6	3484.2	3356.4	3188.6	3196.1
35°	8123.1	4686.5	2928.1	3028.3	3188.6	3196.1	3308.8	3178.6	3040.8	2960.7	2965.7
37.5°	7937.7	4305.8	2822.9	2935.6	2980.7	3075.9	3015.7	2948.1	2930.6	2875.5	2878.0
40°	7827.5	3972.6	2755.3	2863.0	2855.4	2920.6	2727.7	2795.3	2820.4	2802.9	2805.4
42.5°	7717.3	3737.2	2685.1	2762.8	2760.2	2632.5	2589.9	2647.6	2712.7	2720.2	2715.2
45°	7629.6	3554.3	2612.5	2610.0	2660.1	2459.7	2447.2	2482.2	2574.9	2620.1	2617.5
47.5°	7531.9	3401.5	2502.3	2432.2	2447.2	2352.0	2331.9	2347.0	2459.7	2532.3	2552.4
50°	7409.2	3248.7	2364.6	2269.4	2206.7	2251.8	2256.8	2259.3	2372.0	2454.7	2472.2
52.5°	7311.5	3133.5	2206.7	2136.6	2061.5	2161.6	2199.2	2204.3	2271.9	2339.5	2352.0
55°	7369.1	3068.4	2051.5	2001.3	1933.7	2068.9	2141.6	2151.6	2166.7	2216.7	2224.3
57.5°	7541.9	3083.4	1926.2	1861.0	1810.9	1958.8	2081.5	2089.0	2079.0	2139.1	2149.1
60°	7594.6	3075.9	1833.5	1705.8	1675.7	1841.0	1993.8	2008.8	2006.4	2094.0	2111.6
62.5°	7374.1	2980.7	1740.9	1575.5	1555.5	1720.8	1871.1	1931.2	1943.7	2068.9	2091.5
65°	6855.7	2785.3	1618.1	1437.8	1437.8	1593.0	1753.3	1836.0	1871.1	2038.9	2064.0
67.5°	6171.8	2554.9	1492.9	1320.0	1315.0	1470.3	1628.1	1713.3	1768.4	1996.3	2011.3
70°	5122.3	2244.3	1337.5	1192.3	1192.3	1332.6	1475.3	1578.1	1658.2	1916.1	1916.1
72.5°	3509.2	1866.1	1149.7	1047.0	1049.5	1179.8	1325.0	1440.3	1535.4	1755.8	1760.9
75°	2219.2	1457.8	944.3	891.7	901.7	1024.4	1174.7	1295.0	1485.4	1735.8	1743.3
77.5°	1179.8	1024.4	751.4	738.9	751.4	864.1	1032.0	1197.3	1490.3	1505.4	1480.3
80°	764.0	726.4	593.7	568.6	573.6	696.3	919.3	1137.2	1197.3	1212.3	1157.2
82.5°	415.8	460.9	420.8	395.8	395.8	543.5	784.0	904.2	859.2	713.8	681.3
85°	177.9	215.4	217.9	190.4	182.8	335.6	526.0	493.4	458.3	438.3	433.4
87.5°	50.1	70.1	70.1	52.6	40.1	92.7	105.2	30.0	0.0	2.5	5.0
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)