

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: P647373

Luminaire Tested: **GALN-SA4D-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-835-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21621.8 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

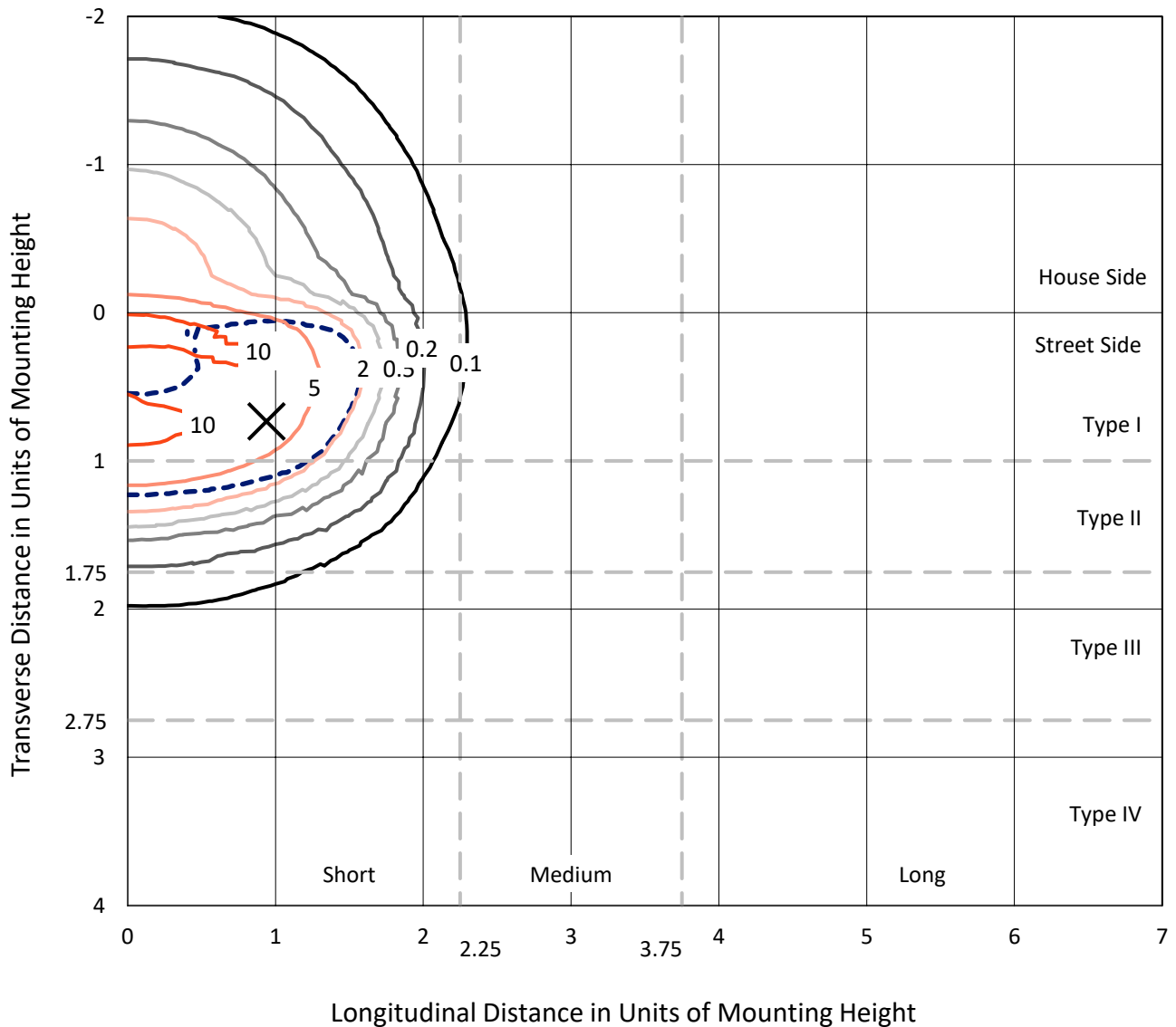
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

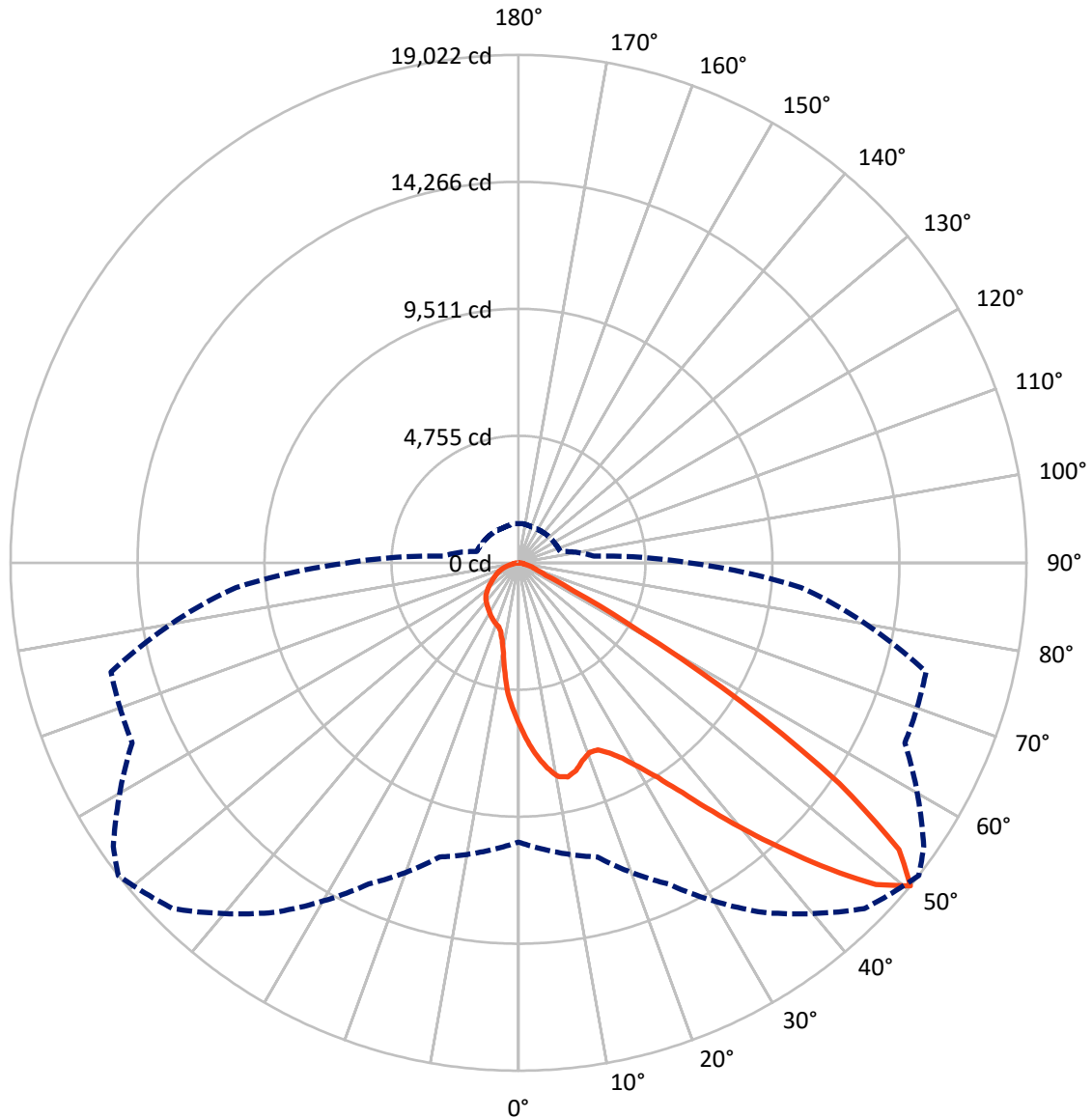
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Short - N/A

REPORT NUMBER: P647373
CATALOG NUMBER: GALN-SA4D-835-U-AFL-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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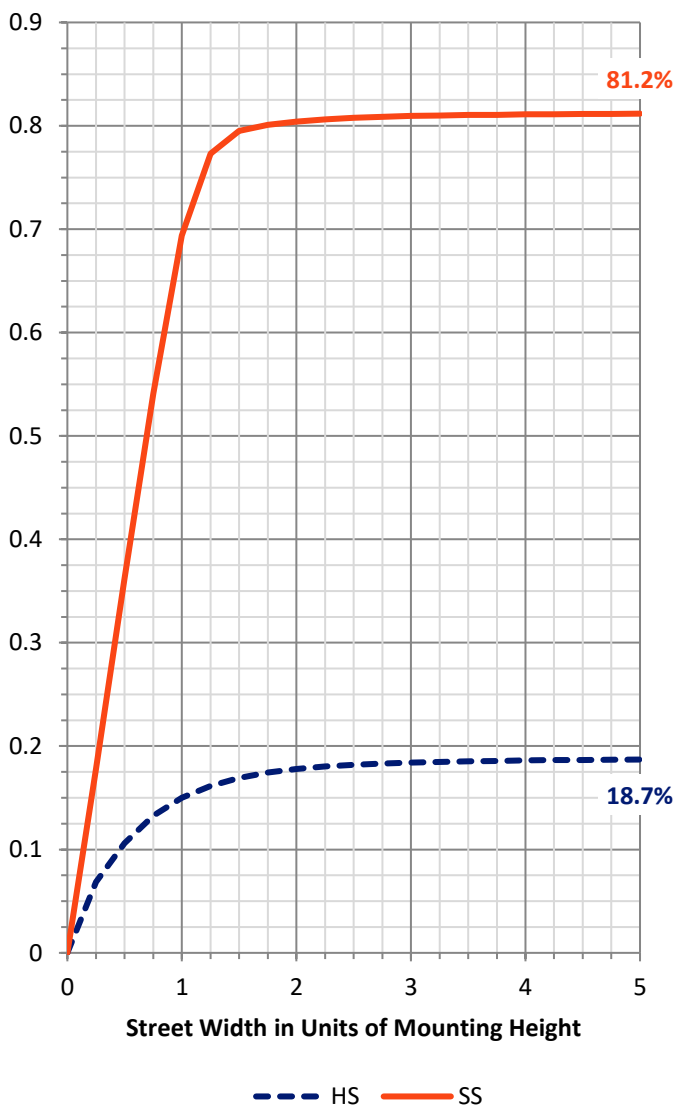
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4064.4	0.0	4064.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	17557.4	0.0	17557.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	21621.8	0.0	21621.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.8	2.6
10°-20°	1505.6	7.0
20°-30°	2536.2	11.7
30°-40°	4256.0	19.7
40°-50°	6510.6	30.1
50°-60°	4746.7	22.0
60°-70°	1056.4	4.9
70°-80°	381.0	1.8
80°-90°	67.4	0.3
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°	21621.8	100.0
0°-180°	21621.8	100.0

Coefficient of Utilization

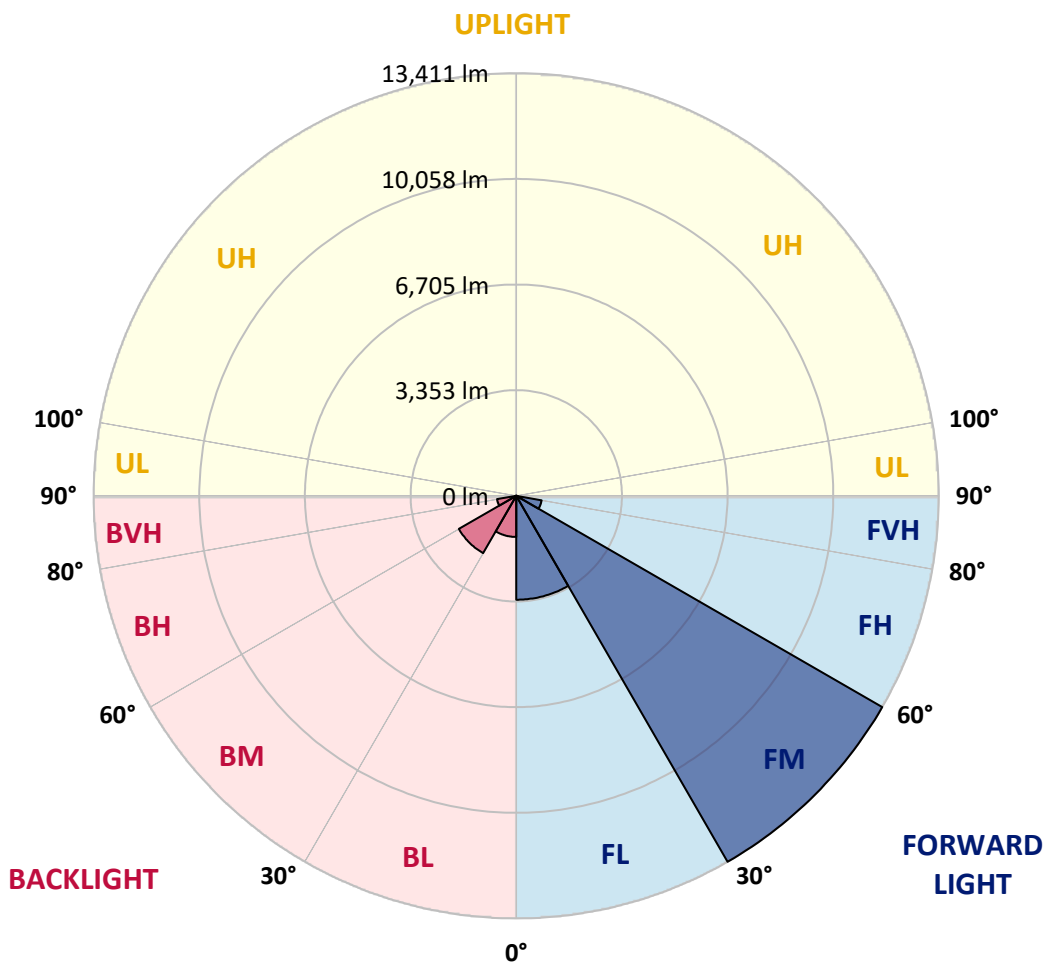


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3298.1	15.3			
FM (30°-60°)	13410.9	62.0			
FH (60°-80°)	818.2	3.8			G1/1800
FVH (80°-90°)	30.2	0.1			G1/100
BL (0°-30°)	1305.6	6.0	B3/2500		
BM (30°-60°)	2102.4	9.7	B2/2500		
BH (60°-80°)	619.2	2.9	B2/1000		G2/1000
BVH (80°-90°)	37.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6094.8	6094.8	6094.8	6094.8	6094.8	6094.8	6094.8	6094.8	6094.8	6094.8	6094.8
2.5°	7176.2	7038.1	7053.7	6954.7	6847.9	6816.6	6707.2	6603.0	6524.7	6358.0	6204.3
5°	7843.2	7801.6	7739.0	7660.9	7580.1	7382.0	7270.0	7139.7	6853.1	6595.1	6339.8
7.5°	7939.7	7931.9	7965.8	7965.8	7994.4	7918.9	7759.8	7668.7	7363.8	6944.3	6470.0
10°	7262.2	7285.7	7449.8	7663.5	7960.5	8166.4	8140.3	8116.9	7783.3	7210.1	6623.8
12.5°	6722.8	6670.7	6767.1	6949.5	7395.0	7892.8	8228.9	8231.5	8145.5	7634.8	6735.8
15°	6417.9	6454.4	6480.5	6566.5	6902.6	7478.4	8070.0	8244.5	8622.4	7934.5	6913.0
17.5°	6613.4	6490.9	6485.7	6506.5	6678.5	7111.0	7775.5	8075.2	8883.0	8320.1	7131.9
20°	6868.7	6866.1	6793.2	6767.1	6764.5	7150.1	7582.7	7989.2	9021.0	8820.4	7353.4
22.5°	7316.9	7316.9	7197.0	7139.7	7017.2	7332.6	7608.7	7885.0	9250.4	9164.4	7460.2
25°	8067.3	7944.9	7739.0	7598.3	7528.0	7640.0	7885.0	8132.5	9451.0	9529.2	7681.7
27.5°	8760.5	8567.7	8466.0	8223.7	8129.9	8064.7	8288.8	8539.0	9685.6	10097.3	7801.6
30°	9547.4	9513.5	9331.2	9018.4	8786.5	8666.7	8872.6	9120.1	10115.5	10678.3	8077.8
32.5°	10954.5	10647.0	10399.5	10016.4	9638.7	9383.2	9586.5	9750.7	10829.4	11285.5	8380.1
35°	12473.7	12374.6	11947.3	11256.8	10678.3	10449.0	10568.9	10691.3	11660.7	12213.1	8888.1
37.5°	13966.8	13831.2	13479.5	12898.4	12194.8	11728.4	11814.4	11957.7	12593.5	13463.8	9508.4
40°	15040.3	14873.6	14696.4	14610.4	13912.0	13273.7	13224.1	13260.6	13854.7	14636.4	10196.2
42.5°	15118.5	15324.3	15379.1	15725.6	15561.4	15037.7	14732.8	14740.7	15058.6	15796.0	10892.0
45°	14954.3	14764.1	15168.0	16113.9	16655.9	16900.8	16387.5	16322.3	15803.8	16468.2	11238.6
47.5°	13231.9	13284.1	13966.8	15462.4	17028.4	18122.9	18003.0	17786.8	16202.5	16444.8	11183.8
50°	10459.4	10774.7	11407.9	13271.0	15986.2	18315.7	19021.9	18521.6	15965.4	15798.6	10626.2
52.5°	6965.1	7095.4	7512.3	9917.4	12854.1	16371.8	17849.3	17964.0	15746.4	14951.7	9920.1
55°	3100.8	3090.4	3676.7	5180.2	8064.7	12458.0	14584.3	15282.7	14904.8	14089.2	9232.1
57.5°	1313.3	1357.6	1597.3	2238.4	3965.9	7517.6	9880.9	10493.3	11462.7	11569.5	7082.4
60°	888.5	893.8	958.9	1120.5	1659.9	3530.8	5182.8	5917.6	6610.8	6563.8	3757.5
62.5°	698.4	716.6	766.1	831.2	984.9	1602.6	2319.1	2728.2	2772.5	2332.2	1425.4
65°	596.7	599.3	648.8	703.5	771.3	932.9	1117.9	1138.7	1151.7	1110.1	1047.5
67.5°	492.5	497.7	536.7	599.3	661.9	713.9	766.1	792.2	852.1	969.4	953.7
70°	390.9	398.7	432.5	484.7	542.0	573.2	638.4	661.9	716.6	807.7	844.2
72.5°	297.1	299.7	328.3	364.8	416.9	448.2	502.9	529.0	565.5	643.6	677.5
75°	213.7	221.5	242.3	260.6	268.4	289.2	341.4	370.0	422.1	456.0	458.6
77.5°	112.0	117.3	122.5	122.5	148.5	187.6	221.5	237.1	273.6	299.7	286.7
80°	44.3	46.9	59.9	80.8	104.2	135.5	158.9	166.8	198.0	213.7	221.5
82.5°	26.1	28.7	39.1	57.3	75.6	96.4	114.6	122.5	143.3	161.5	166.8
85°	13.0	15.7	23.5	36.5	49.5	59.9	57.3	54.7	54.7	52.1	54.7
87.5°	5.2	5.2	7.8	7.8	7.8	10.4	13.0	13.0	13.0	15.7	15.7
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°	6094.8	6094.8	6094.8	6094.8	6094.8	6094.8	6094.8	6094.8	6094.8	6094.8	6094.8
2.5°	6102.6	5998.4	5902.0	5724.8	5532.0	5477.2	5253.1	5172.4	5115.0	5047.3	5026.5
5°	6133.9	5995.8	5685.8	5328.7	5044.7	4679.9	4440.2	4182.2	3994.6	3947.7	3934.7
7.5°	6199.0	5961.9	5427.8	4888.3	4307.3	3812.2	3434.4	3231.1	3051.4	3040.9	3022.6
10°	6272.0	5860.3	5146.3	4299.5	3556.9	3098.3	2871.5	2782.9	2738.6	2728.2	2723.0
12.5°	6332.0	5839.5	4831.0	3726.2	3025.3	2749.0	2681.3	2673.5	2691.7	2697.0	2707.4
15°	6358.0	5756.1	4450.6	3212.9	2694.3	2592.7	2621.4	2652.6	2665.6	2699.5	2673.5
17.5°	6407.5	5649.3	3981.6	2806.4	2509.4	2527.6	2577.1	2613.6	2634.4	2657.8	2624.0
20°	6433.6	5552.8	3541.2	2564.0	2444.2	2478.0	2545.8	2574.5	2600.5	2610.9	2571.8
22.5°	6410.1	5354.8	3152.9	2368.6	2381.7	2426.0	2485.9	2517.1	2501.5	2459.8	2436.4
25°	6347.5	5076.0	2749.0	2243.5	2293.0	2371.2	2418.1	2394.6	2366.0	2342.6	2334.7
27.5°	6345.0	4734.6	2457.2	2128.9	2217.5	2324.3	2308.7	2287.8	2300.8	2282.6	2261.8
30°	6358.0	4403.7	2217.5	2063.8	2162.7	2214.9	2233.1	2212.3	2227.9	2194.0	2204.5
32.5°	6290.2	4080.6	2061.2	1988.2	2097.6	2095.0	2155.0	2170.6	2134.1	2063.8	2074.2
35°	6318.9	3820.0	1928.2	1954.3	2024.7	2024.7	2071.6	2053.3	1956.9	1915.2	1925.6
37.5°	6516.9	3564.7	1863.1	1907.4	1954.3	1975.1	1959.5	1881.3	1857.9	1857.9	1863.1
40°	6704.6	3345.8	1824.0	1897.0	1889.1	1902.2	1787.5	1795.3	1795.3	1797.9	1784.9
42.5°	6871.3	3197.2	1792.8	1834.4	1847.5	1779.7	1709.4	1701.5	1719.8	1717.2	1706.8
45°	6931.3	3074.8	1748.4	1764.1	1774.5	1662.5	1628.6	1613.0	1633.8	1641.6	1652.1
47.5°	6701.9	2973.1	1699.0	1667.6	1646.8	1573.8	1529.6	1500.9	1526.9	1571.2	1581.7
50°	6407.5	2840.3	1620.7	1560.8	1516.5	1485.3	1454.0	1425.4	1443.5	1474.9	1467.0
52.5°	5972.3	2631.8	1521.8	1459.2	1383.6	1391.5	1362.8	1347.2	1357.6	1357.6	1349.7
55°	5352.2	2162.7	1355.0	1310.7	1248.2	1269.0	1274.2	1253.3	1232.5	1250.8	1235.1
57.5°	3653.2	1526.9	1209.0	1209.0	1146.5	1175.2	1172.5	1123.1	1073.6	1078.7	1068.3
60°	2113.2	1216.9	1115.2	1104.8	1039.7	1063.2	1068.3	1034.5	958.9	964.1	953.7
62.5°	1201.3	1039.7	974.5	958.9	945.9	966.7	966.7	922.5	857.3	862.5	852.1
65°	1021.4	964.1	870.3	867.7	862.5	867.7	846.9	800.0	742.6	719.2	721.8
67.5°	927.6	891.1	800.0	776.5	760.8	758.3	719.2	674.9	648.8	628.0	625.4
70°	813.0	784.3	716.6	685.3	669.7	633.2	594.1	565.5	529.0	518.5	529.0
72.5°	643.6	641.0	615.0	581.1	547.2	518.5	484.7	445.6	411.7	403.9	385.6
75°	445.6	450.8	456.0	450.8	422.1	385.6	346.6	315.3	273.6	250.2	244.9
77.5°	291.8	299.7	307.5	297.1	278.8	244.9	218.8	179.8	148.5	130.3	127.7
80°	213.7	224.1	229.3	221.5	200.6	174.6	146.0	114.6	91.2	75.6	75.6
82.5°	164.2	174.6	179.8	166.8	146.0	125.0	104.2	80.8	62.6	49.5	46.9
85°	57.3	54.7	65.1	67.7	80.8	75.6	62.6	46.9	36.5	26.1	23.5
87.5°	15.7	15.7	18.2	18.2	15.7	13.0	13.0	13.0	10.4	7.8	7.8
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)