

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: P646903

Luminaire Tested: **GALN-SA4C-835-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-835-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12845.9 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

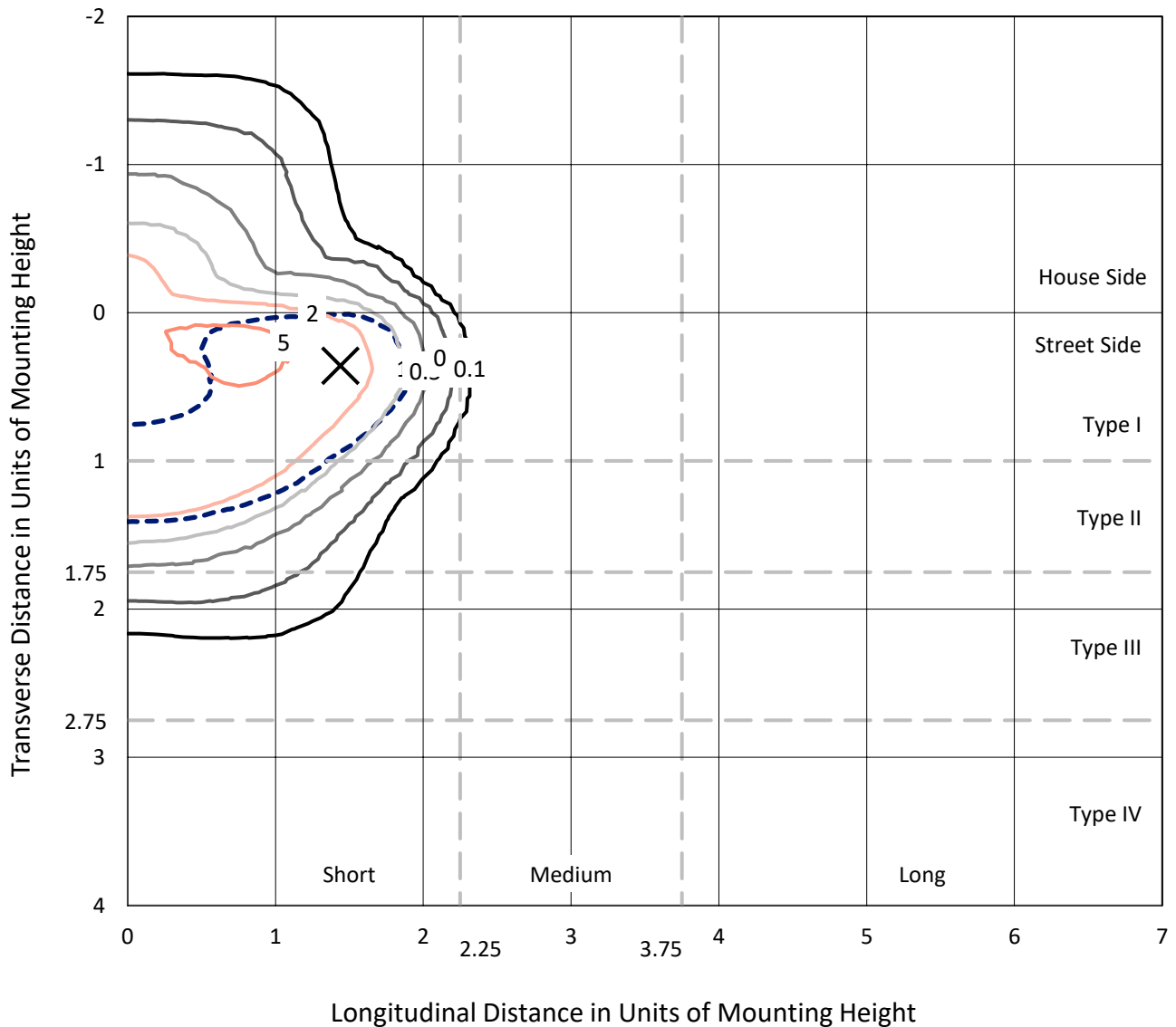
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

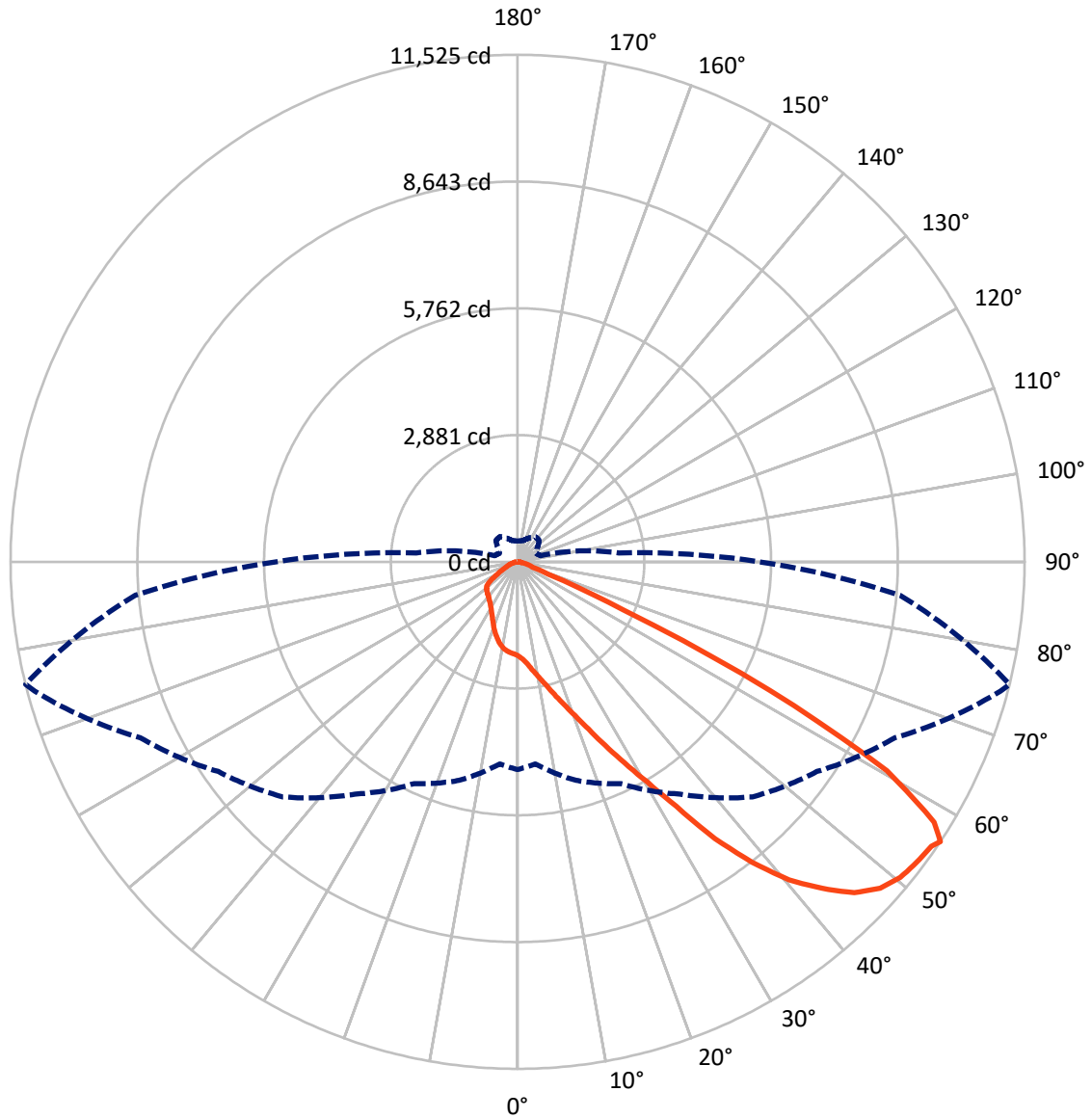
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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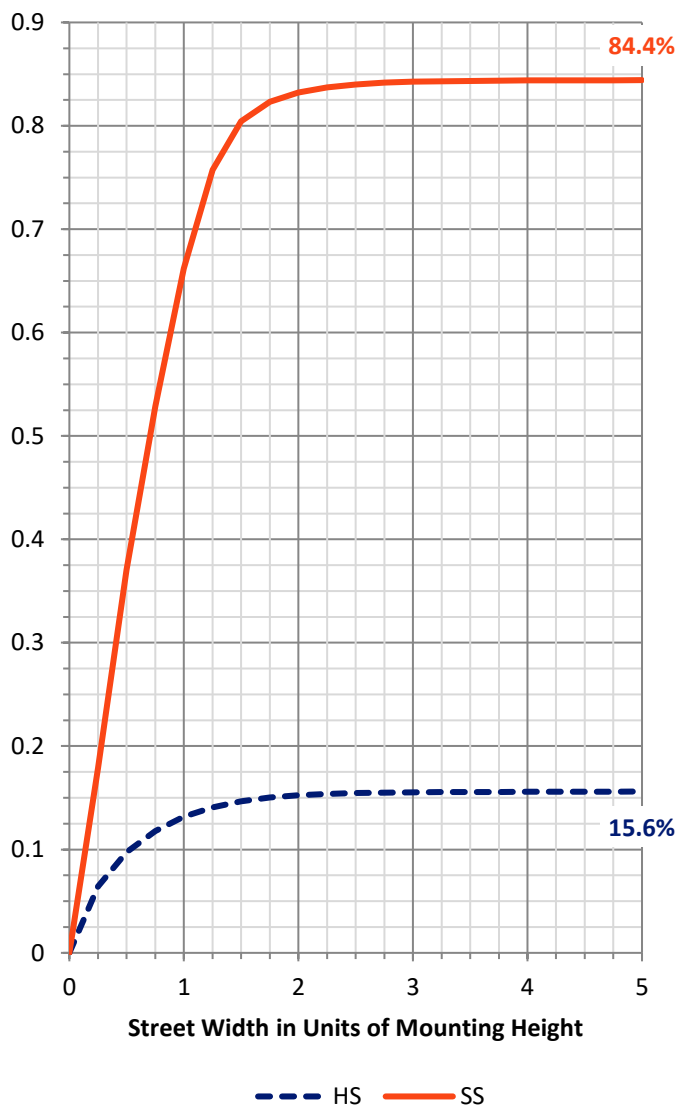
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2018.0	0.0	2018.0
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	10827.9	0.0	10827.9
	% Fixture	84.3	0.0	84.3
Total	Lumens	12845.9	0.0	12845.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.4	1.7
10°-20°	692.0	5.4
20°-30°	1254.8	9.8
30°-40°	2163.9	16.8
40°-50°	3515.3	27.4
50°-60°	3705.3	28.8
60°-70°	1132.1	8.8
70°-80°	145.1	1.1
80°-90°	22.0	0.2
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°	12845.9	100.0
0°-180°	12845.9	100.0

Coefficient of Utilization

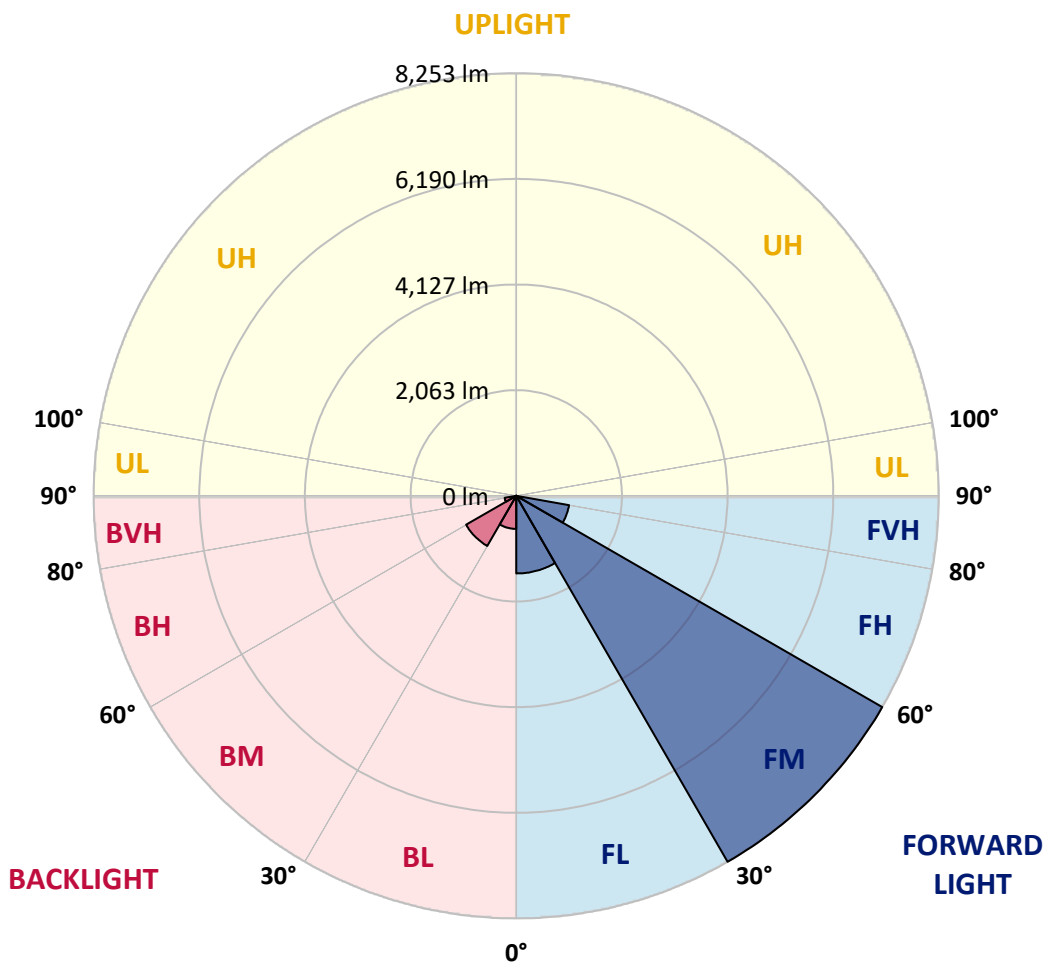


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1516.6	11.8			
FM (30°-60°)	8253.5	64.2			
FH (60°-80°)	1047.0	8.2			G1/1800
FVH (80°-90°)	10.8	0.1			G1/100
BL (0°-30°)	645.6	5.0	B2/1000		
BM (30°-60°)	1131.0	8.8	B2/2500		
BH (60°-80°)	230.2	1.8	B1/500		G1/500
BVH (80°-90°)	11.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2138.2	2138.2	2138.2	2138.2	2138.2	2138.2	2138.2	2138.2	2138.2	2138.2	2138.2
2.5°	2462.6	2405.8	2408.2	2403.4	2396.3	2370.3	2292.2	2280.3	2228.2	2214.0	2166.6
5°	2758.6	2708.9	2737.3	2694.7	2654.4	2630.7	2502.9	2443.7	2360.8	2330.1	2263.7
7.5°	2943.3	2919.7	2910.2	2912.5	2874.6	2815.4	2758.6	2628.4	2517.1	2493.4	2353.7
10°	3033.3	3019.1	3033.3	3026.2	3042.7	3049.9	2950.4	2872.3	2708.9	2668.6	2450.8
12.5°	3054.6	3083.0	3094.9	3125.7	3165.9	3234.6	3227.4	3120.9	2903.1	2877.0	2600.0
15°	3106.7	3130.4	3118.5	3168.3	3244.0	3360.1	3421.6	3405.0	3170.6	3123.2	2772.8
17.5°	3154.1	3111.4	3151.7	3251.2	3326.9	3504.5	3653.7	3722.4	3461.9	3407.4	2931.5
20°	3218.0	3206.2	3199.0	3248.7	3383.7	3620.5	3916.5	4042.0	3788.6	3731.9	3158.8
22.5°	3412.2	3414.5	3409.8	3336.4	3433.5	3701.0	4146.2	4456.4	4179.3	4132.0	3416.9
25°	3667.9	3637.1	3613.4	3554.2	3542.4	3774.5	4378.2	4963.1	4648.2	4615.1	3696.3
27.5°	3937.9	3937.9	3866.8	3812.3	3736.6	3956.7	4591.4	5455.6	5214.2	5169.1	3940.2
30°	4231.4	4248.0	4238.5	4122.5	4075.2	4155.7	4809.2	6085.6	5862.9	5806.1	4342.8
32.5°	4664.8	4629.3	4669.5	4572.4	4432.7	4503.7	5152.5	6649.1	6705.9	6625.4	4870.8
35°	5237.8	5216.5	5190.4	5031.8	4866.0	4922.9	5638.0	7342.9	7764.4	7724.1	5403.6
37.5°	5751.6	5739.8	5718.5	5609.6	5417.7	5486.4	6189.7	8065.1	8796.8	8664.1	6156.6
40°	6291.6	6355.5	6286.8	6189.7	6014.5	6166.0	6838.5	8493.7	9665.8	9504.8	6731.9
42.5°	7023.2	6973.5	7004.2	6826.7	6731.9	6897.7	7489.7	8922.3	10340.6	10148.9	7342.9
45°	7802.3	7804.6	7721.7	7664.9	7418.6	7598.6	7889.9	9159.1	10878.1	10729.0	7804.6
47.5°	8301.9	8299.5	8389.5	8479.5	8226.1	8048.5	8162.1	9384.0	11155.2	11086.5	7972.7
50°	8223.8	8247.4	8363.5	8699.7	8832.3	8593.1	8417.9	9317.7	11280.7	11273.6	8117.2
52.5°	7153.4	7231.6	7425.7	7911.2	8578.9	8874.9	8685.5	9440.9	11342.3	11354.1	8332.7
55°	5446.2	5488.8	5858.2	6447.8	7186.6	8200.0	8578.9	9538.0	11389.6	11411.0	8593.1
56°	4724.0	4610.3	5143.1	5562.2	6445.4	7553.6	8309.0	9462.2	11361.2	11524.6	8723.4
57.5°	3566.1	3490.3	3921.3	4444.5	5294.6	6464.4	7470.8	9104.6	11169.4	11167.1	8536.3
60°	2169.0	2093.2	2424.7	2732.6	3208.5	3980.5	5048.4	7250.5	9443.2	9642.1	6911.9
62.5°	1290.5	1337.8	1664.7	1851.7	2005.7	2086.1	2611.8	4309.6	6301.0	6443.1	4288.3
65°	859.6	876.1	1122.4	1430.2	1498.9	1193.4	1063.2	1745.2	2732.6	2645.0	1768.8
67.5°	530.4	568.3	753.0	1075.1	1191.0	871.4	504.3	651.1	753.0	753.0	511.5
70°	322.0	341.0	502.0	731.7	816.9	561.2	367.0	367.0	362.3	355.2	305.4
72.5°	153.9	165.8	255.7	376.5	383.6	296.0	284.2	310.2	303.1	300.8	253.4
75°	66.3	71.0	90.0	118.4	135.0	125.5	172.9	222.6	229.7	222.6	182.4
77.5°	21.3	23.6	33.1	42.6	45.0	54.5	73.4	92.3	106.6	99.4	90.0
80°	2.3	4.7	9.5	21.3	33.1	42.6	54.5	61.5	68.7	68.7	64.0
82.5°	2.3	2.3	9.5	18.9	30.8	40.2	52.1	59.2	68.7	71.0	66.3
85°	0.0	2.3	7.1	16.6	26.1	26.1	23.6	23.6	16.6	16.6	16.6
87.5°	0.0	0.0	2.3	2.3	2.3	4.7	4.7	4.7	4.7	4.7	4.7
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°	2138.2	2138.2	2138.2	2138.2	2138.2	2138.2	2138.2	2138.2	2138.2	2138.2	2138.2
2.5°	2157.2	2152.4	2088.5	2048.2	2027.0	1984.3	1958.3	1939.3	1925.1	1908.6	1910.9
5°	2185.6	2169.0	2062.4	1989.1	1901.4	1854.1	1813.8	1780.7	1759.3	1754.6	1745.2
7.5°	2266.1	2178.5	2017.5	1884.8	1773.6	1726.2	1690.7	1669.4	1678.8	1657.5	1674.1
10°	2327.6	2197.4	1963.0	1771.2	1659.9	1624.4	1605.5	1622.0	1645.7	1636.2	1624.4
12.5°	2403.4	2216.4	1875.4	1662.3	1558.1	1532.0	1565.2	1596.0	1643.4	1662.3	1638.6
15°	2488.7	2237.7	1764.1	1536.8	1470.5	1491.8	1548.6	1603.0	1650.4	1674.1	1688.3
17.5°	2592.8	2230.5	1655.2	1437.4	1387.6	1449.2	1517.8	1567.6	1638.6	1674.1	1664.7
20°	2689.9	2206.9	1534.4	1337.8	1340.3	1397.0	1453.9	1534.4	1572.3	1619.6	1603.0
22.5°	2782.3	2164.3	1408.9	1269.2	1269.2	1356.8	1385.2	1437.4	1470.5	1494.1	1491.8
25°	2912.5	2083.7	1304.7	1202.9	1231.3	1288.1	1311.8	1328.4	1314.2	1333.1	1335.5
27.5°	3004.8	2000.9	1219.4	1143.7	1195.8	1238.4	1231.3	1221.9	1188.7	1162.7	1179.2
30°	3104.4	1903.8	1146.1	1103.5	1131.8	1169.7	1141.3	1112.9	1060.8	1018.2	1020.6
32.5°	3246.4	1858.8	1082.1	1056.1	1094.0	1098.7	1067.9	1025.3	973.2	932.9	930.6
35°	3511.6	1830.4	1027.7	1025.3	1032.4	1034.8	1004.0	951.9	930.6	897.5	909.3
37.5°	3776.8	1816.2	989.8	980.3	978.0	980.3	944.8	895.0	935.3	932.9	937.7
40°	4115.4	1880.1	935.3	923.5	925.8	925.8	880.9	866.6	937.7	944.8	947.2
42.5°	4458.8	1960.6	899.8	861.9	871.4	871.4	847.7	831.2	880.9	833.5	826.4
45°	4757.1	2079.0	861.9	800.4	824.0	835.9	828.8	800.4	769.5	689.0	689.0
47.5°	4854.2	2183.2	816.9	741.2	760.1	812.2	790.9	731.7	677.2	610.9	606.2
50°	5024.7	2296.9	781.4	672.5	712.8	776.7	755.4	696.2	634.6	587.2	589.6
52.5°	5199.9	2427.1	715.1	591.9	641.7	748.2	748.2	682.0	587.2	554.1	549.4
55°	5462.8	2422.4	596.7	485.4	573.0	705.6	717.5	610.9	525.7	499.6	499.6
56°	5500.7	2313.5	537.5	454.6	542.2	693.8	696.2	591.9	502.0	473.6	473.6
57.5°	5216.5	2088.5	471.2	416.7	504.3	672.5	674.9	575.4	483.0	442.8	438.1
60°	4013.6	1413.6	393.1	371.8	457.0	606.2	618.0	523.3	423.8	393.1	390.7
62.5°	2266.1	783.8	345.7	336.2	393.1	516.2	551.7	457.0	359.9	343.3	348.0
65°	1034.8	431.0	291.3	272.3	317.3	397.8	445.1	376.5	296.0	277.0	277.0
67.5°	378.9	293.6	248.6	215.5	222.6	258.1	288.8	243.9	196.5	168.1	175.2
70°	270.0	246.3	217.8	187.1	172.9	168.1	165.8	137.3	97.1	75.8	80.5
72.5°	217.8	203.7	182.4	158.6	135.0	113.7	97.1	71.0	45.0	30.8	28.4
75°	156.3	149.2	132.6	113.7	94.7	80.5	66.3	45.0	23.6	11.8	11.8
77.5°	80.5	80.5	78.1	71.0	59.2	47.4	37.9	26.1	14.2	4.7	4.7
80°	61.5	66.3	68.7	61.5	54.5	42.6	30.8	18.9	9.5	2.3	2.3
82.5°	59.2	68.7	73.4	64.0	54.5	40.2	30.8	18.9	9.5	2.3	2.3
85°	14.2	14.2	21.3	23.6	30.8	33.1	26.1	16.6	7.1	2.3	2.3
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	2.3	2.3	2.3	2.3	0.0
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)