

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: P652465

Luminaire Tested: **GALN-SA6B-840-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-840-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28539.3 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

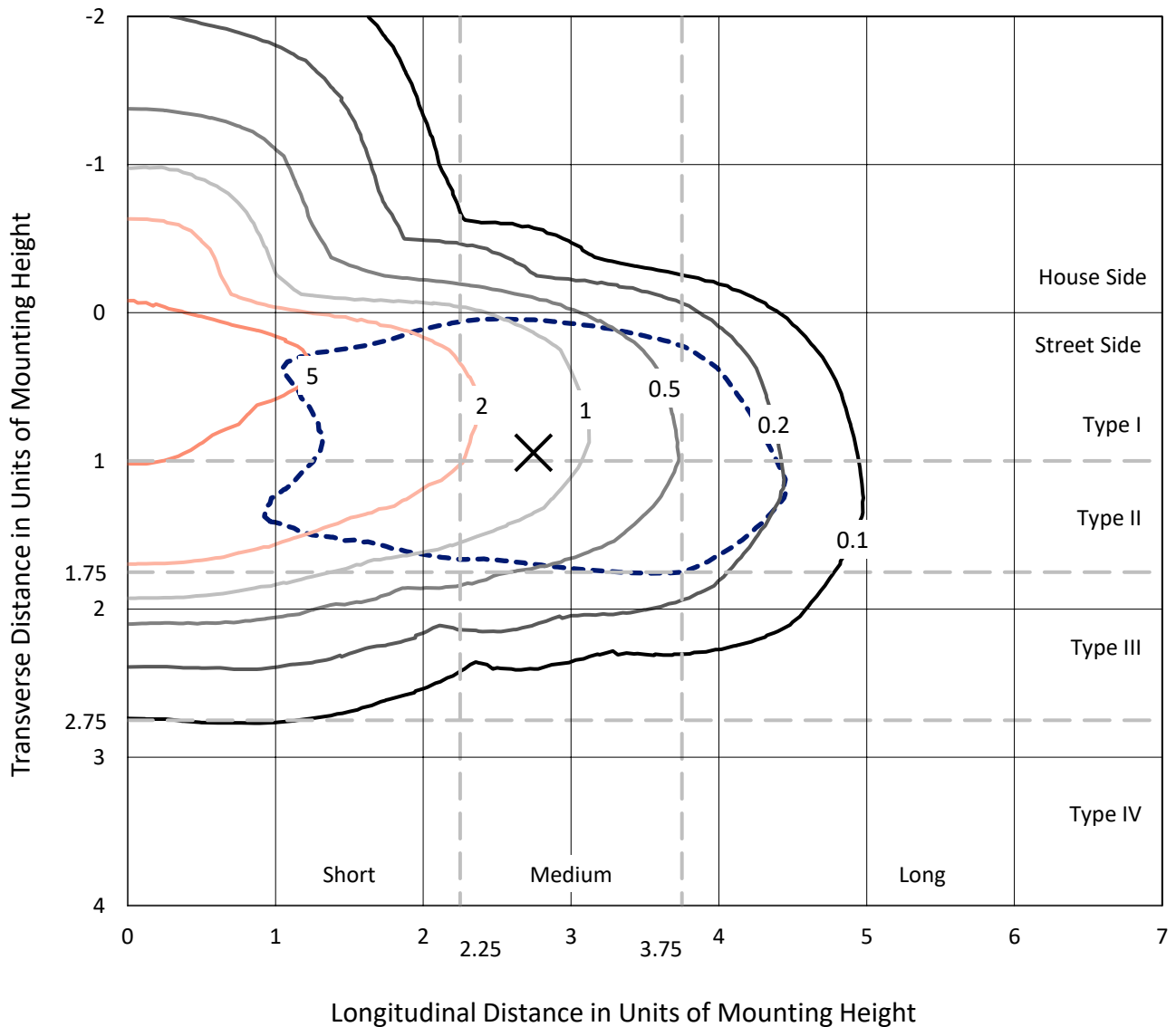
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

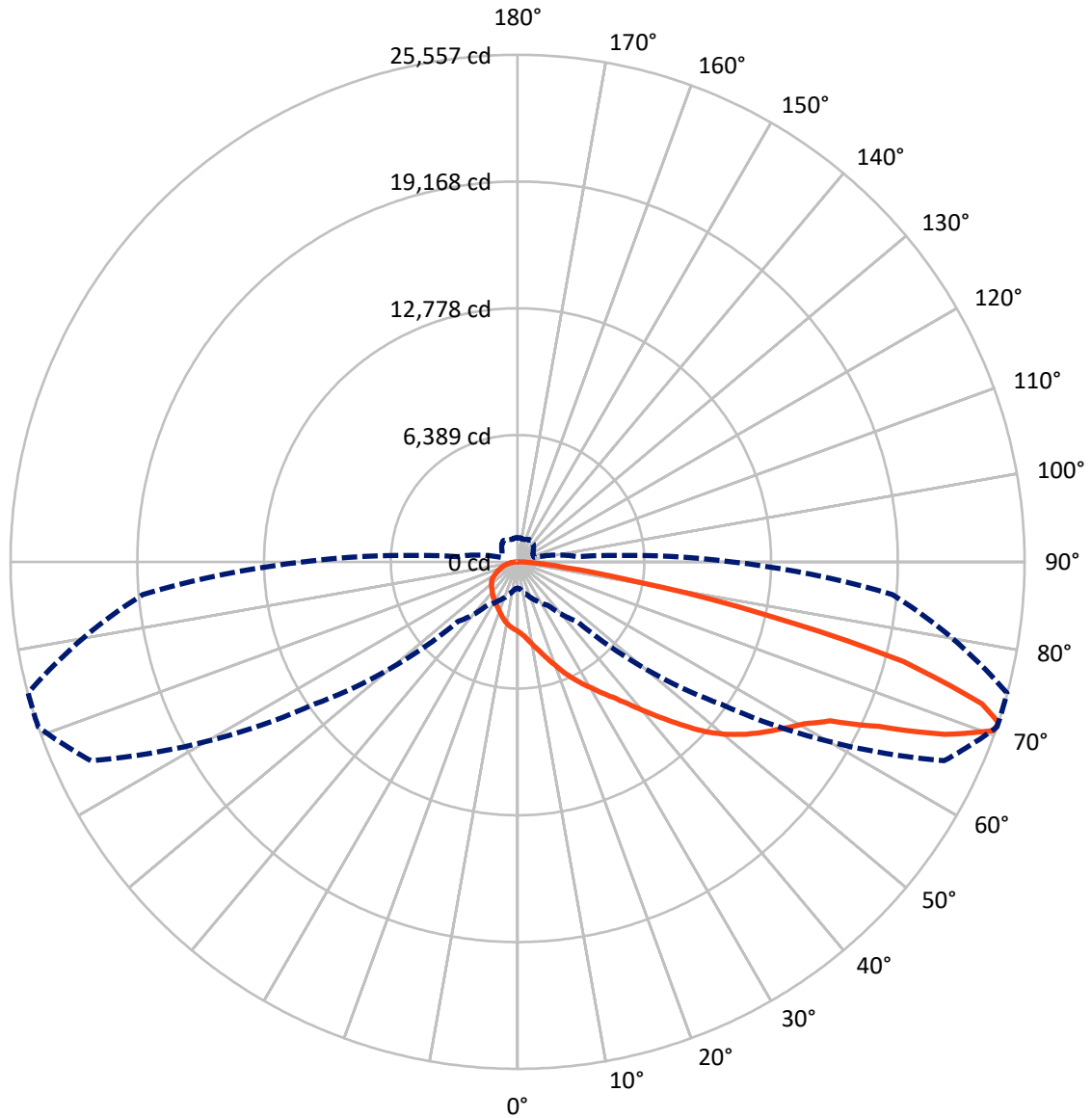
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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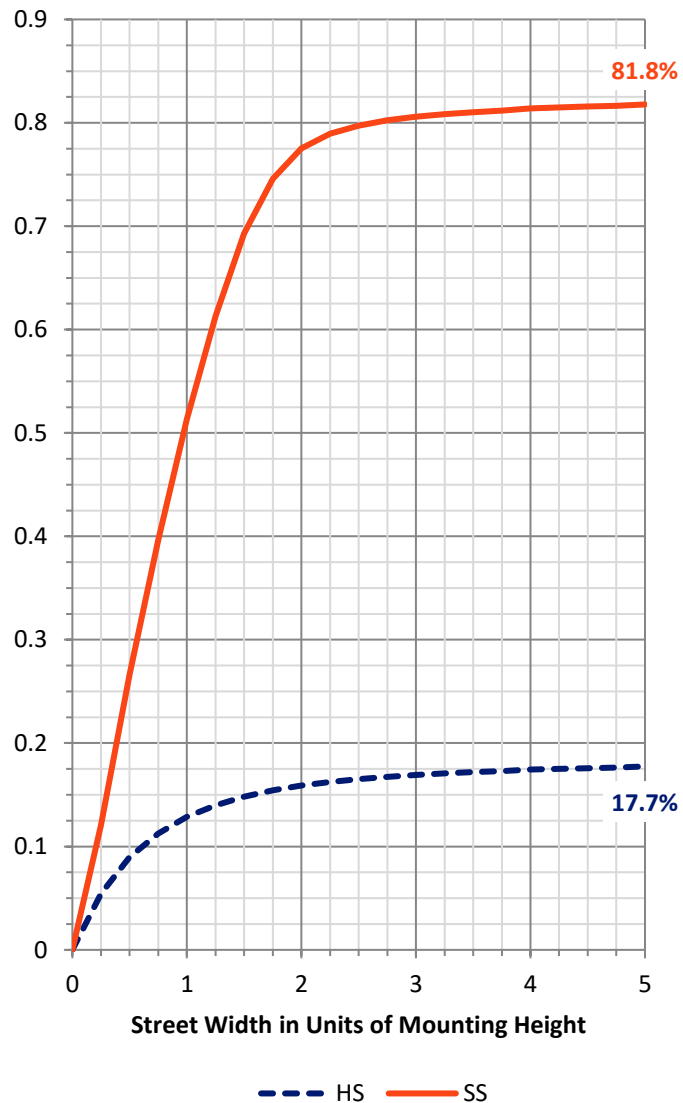
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5132.7	0.0	5132.7
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	23406.6	0.0	23406.6
	% Fixture	82.0	0.0	82.0
Total	Lumens	28539.3	0.0	28539.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.7	1.2
10°-20°	1142.6	4.0
20°-30°	1996.8	7.0
30°-40°	2970.0	10.4
40°-50°	4375.9	15.3
50°-60°	6126.3	21.5
60°-70°	6852.1	24.0
70°-80°	4185.5	14.7
80°-90°	538.4	1.9
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°	28539.3	100.0
0°-180°	28539.3	100.0

Coefficient of Utilization

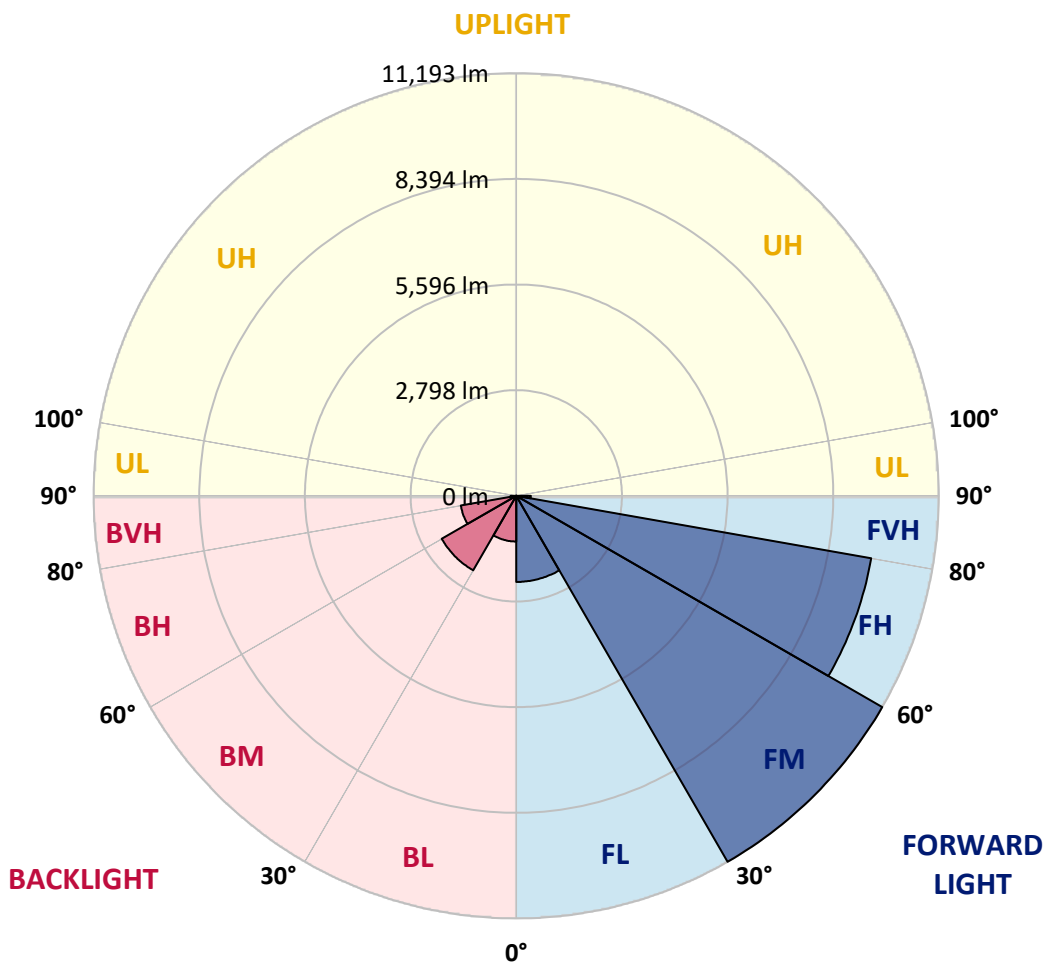


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2280.3	8.0			
FM (30°-60°)	11192.6	39.2			
FH (60°-80°)	9546.3	33.4			G4/12000
FVH (80°-90°)	387.4	1.4			G3/500
BL (0°-30°)	1210.8	4.2	B3/2500		
BM (30°-60°)	2279.6	8.0	B2/2500		
BH (60°-80°)	1491.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	151.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7
2.5°	3888.5	3869.7	3871.3	3844.6	3810.1	3772.5	3719.1	3672.1	3634.4	3612.4	3548.1
5°	4308.9	4290.1	4266.6	4208.5	4183.4	4090.9	3973.2	3866.6	3785.0	3739.5	3610.8
7.5°	4649.3	4644.6	4638.3	4605.3	4541.1	4412.4	4312.1	4127.0	4006.2	3919.9	3700.3
10°	4859.5	4867.3	4872.0	4878.3	4851.6	4784.2	4646.1	4412.4	4258.7	4148.9	3816.4
12.5°	4966.1	4974.0	5000.7	5058.7	5094.8	5086.9	4974.0	4744.9	4533.2	4388.9	3940.3
15°	5032.0	5044.6	5091.6	5168.4	5289.2	5366.1	5311.3	5099.5	4867.3	4696.3	4087.7
17.5°	5104.2	5118.2	5170.0	5279.9	5438.2	5604.5	5664.1	5482.2	5229.7	5025.7	4252.4
20°	5145.0	5163.7	5237.5	5381.8	5566.9	5808.5	6006.1	5910.4	5634.4	5408.5	4442.2
22.5°	5210.8	5226.5	5289.2	5443.0	5664.1	5966.9	6348.0	6327.7	6084.6	5792.8	4650.8
25°	5389.6	5414.8	5446.1	5538.7	5752.0	6128.5	6632.0	6773.2	6520.6	6194.3	4842.2
27.5°	5726.9	5747.3	5745.7	5758.2	5879.0	6268.1	6878.2	7213.9	6953.6	6600.6	5027.3
30°	6111.2	6119.0	6125.3	6097.1	6123.7	6410.8	7104.1	7650.0	7389.6	7017.8	5188.9
32.5°	6578.6	6594.3	6541.0	6468.8	6446.9	6622.5	7290.8	8086.0	7905.7	7441.3	5348.8
35°	7130.8	7171.5	7063.3	6936.2	6846.8	6926.8	7541.8	8531.5	8434.2	7982.5	5560.6
37.5°	7761.3	7811.5	7711.1	7461.8	7334.7	7356.6	7869.6	9082.0	9102.5	8599.0	5875.9
40°	8277.4	8343.3	8346.4	7993.5	7800.5	7825.7	8285.3	9675.0	9908.7	9361.3	6247.6
42.5°	8617.8	8682.1	8749.5	8542.5	8340.1	8482.9	8769.9	10318.1	10815.3	10286.8	6766.9
45°	8991.1	9049.2	9086.8	8992.6	8879.7	9249.9	9355.0	11002.0	11781.6	11320.4	7334.7
47.5°	9424.0	9488.3	9524.4	9435.0	9392.6	9922.9	9985.6	11640.4	12813.7	12324.4	7962.1
50°	10001.3	10049.9	10031.1	9974.6	9965.2	10438.9	10591.0	12238.1	13665.5	13405.1	8613.1
52.5°	10719.6	10777.8	10798.1	10718.1	10682.0	10807.5	11078.9	12782.4	14440.4	14333.7	9307.9
55°	11154.2	11246.7	11557.3	11682.8	11769.0	11284.4	11604.4	13383.2	15135.2	15312.5	10054.6
57.5°	10597.4	10716.5	11411.4	12038.8	12849.8	12476.5	12349.4	14010.6	15830.1	16261.5	10948.7
60°	9239.0	9265.6	10161.3	11317.3	12948.6	14009.0	13903.9	15008.1	16583.0	17218.3	12126.7
62.5°	6409.3	6465.7	7524.5	9369.2	11728.2	14561.2	16548.5	16730.5	17662.2	18650.4	13853.7
65°	3305.0	3231.3	4195.9	5888.4	8842.1	13249.8	18691.2	19897.5	20002.5	20890.4	16285.0
67.5°	2034.5	2067.4	2519.1	3438.3	5228.1	9629.5	18466.9	23767.2	23213.5	23640.1	18542.2
70°	1527.8	1568.5	1879.1	2352.9	3187.4	5505.7	14851.3	24705.1	25478.4	25368.7	19229.2
71°	1328.6	1370.9	1694.0	2141.1	2677.6	4249.3	12512.6	23723.2	25556.9	25538.1	18970.4
72.5°	1132.5	1159.2	1411.7	1813.3	2257.2	2978.7	9400.5	21276.2	24466.7	25092.6	18046.5
75°	889.4	909.8	1022.7	1383.5	1777.2	1829.0	5044.6	15950.9	20095.1	21287.2	15023.9
77.5°	724.7	738.8	796.8	1027.4	1370.9	1295.6	2646.2	10382.4	12589.4	13789.4	8849.9
80°	575.7	591.4	625.9	696.4	1027.4	923.9	1262.7	5261.0	6081.4	6068.8	3532.5
82.5°	447.1	451.8	492.6	511.3	702.7	655.6	683.9	2227.4	2467.4	2548.9	1275.3
85°	282.3	296.5	436.1	392.2	420.4	384.3	337.2	884.6	1090.2	1074.5	509.8
87.5°	86.3	91.0	147.4	166.3	186.7	167.9	123.9	260.4	318.4	345.1	127.1
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°	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7
2.5°	3523.0	3505.8	3444.6	3394.4	3347.3	3295.6	3251.6	3239.1	3228.2	3223.5	3221.9
5°	3556.0	3504.2	3383.4	3284.6	3206.1	3134.0	3088.6	3068.1	3047.8	3047.8	3054.0
7.5°	3603.0	3508.9	3322.3	3174.8	3076.0	3008.5	2975.6	2972.4	2977.1	2981.8	2983.4
10°	3654.8	3505.8	3232.8	3049.3	2961.5	2930.1	2931.6	2958.3	2983.4	3002.3	3005.4
12.5°	3705.0	3487.0	3127.8	2931.6	2875.2	2881.5	2925.4	2985.0	3033.7	3060.3	3061.8
15°	3761.5	3457.2	3000.7	2820.3	2801.5	2850.1	2931.6	3022.6	3096.4	3140.3	3145.0
17.5°	3808.6	3407.0	2867.4	2712.1	2735.6	2825.0	2937.9	3055.6	3145.0	3199.9	3209.3
20°	3861.9	3342.6	2729.3	2608.5	2676.0	2796.7	2925.4	3052.5	3145.0	3198.3	3210.9
22.5°	3904.2	3251.6	2597.6	2523.8	2622.7	2762.3	2883.0	2985.0	3060.3	3088.6	3107.3
25°	3921.4	3137.2	2473.6	2454.8	2580.4	2705.8	2787.3	2845.4	2868.9	2865.8	2873.6
27.5°	3912.1	3005.4	2367.0	2400.0	2527.0	2617.9	2658.7	2654.0	2611.7	2572.5	2591.3
30°	3872.8	2848.6	2277.6	2343.4	2458.0	2508.2	2501.9	2440.8	2360.7	2287.0	2291.7
32.5°	3802.2	2679.2	2194.4	2279.1	2360.7	2382.6	2340.3	2260.4	2145.8	2050.1	2036.0
35°	3742.6	2517.5	2120.7	2205.4	2263.5	2252.5	2211.7	2108.1	2004.6	1919.9	1905.8
37.5°	3733.2	2379.5	2050.1	2122.3	2155.2	2139.5	2089.4	2001.5	1963.9	1899.6	1891.7
40°	3783.4	2282.3	1977.9	2034.5	2050.1	2037.6	1982.7	1932.4	1967.0	1951.3	1951.3
42.5°	3919.9	2230.5	1913.7	1946.6	1959.2	1968.5	1929.3	1887.0	1929.3	1857.2	1833.6
45°	4136.4	2232.1	1855.7	1860.4	1898.0	1930.9	1904.3	1841.5	1819.6	1675.3	1647.0
47.5°	4454.8	2285.4	1808.6	1778.8	1846.2	1901.1	1863.5	1772.5	1675.3	1579.6	1562.3
50°	4826.5	2381.1	1766.2	1694.0	1777.2	1863.5	1835.2	1728.6	1628.2	1570.1	1559.1
52.5°	5239.1	2501.9	1714.5	1599.9	1692.5	1846.2	1841.5	1722.3	1584.3	1545.1	1535.7
55°	5748.8	2621.1	1650.1	1490.2	1617.2	1832.1	1824.3	1670.6	1574.9	1546.6	1543.5
57.5°	6341.8	2793.6	1557.6	1378.8	1531.0	1774.1	1756.8	1639.2	1543.5	1523.1	1521.5
60°	7297.0	3061.8	1425.8	1276.8	1443.1	1672.1	1694.0	1585.9	1493.3	1488.6	1487.1
62.5°	8553.5	3438.3	1289.3	1171.8	1341.1	1540.4	1603.1	1513.7	1440.0	1463.5	1466.6
65°	10288.3	3755.1	1148.2	1082.3	1228.2	1413.3	1516.8	1446.3	1380.3	1425.8	1425.8
67.5°	11419.3	3761.5	1019.5	989.8	1113.7	1306.7	1425.8	1366.2	1303.5	1380.3	1383.5
70°	11184.0	3295.6	912.9	892.6	1002.3	1192.1	1325.4	1278.4	1206.2	1275.3	1250.1
71°	10804.4	3036.8	870.6	854.9	958.4	1137.2	1278.4	1239.2	1167.1	1212.6	1198.4
72.5°	10198.9	2636.8	801.6	804.7	892.6	1068.2	1212.6	1171.8	1099.6	1124.7	1120.0
75°	8620.9	2302.7	685.5	699.6	767.1	950.6	1080.8	1049.4	975.6	975.6	970.9
77.5°	5389.6	1609.3	569.4	577.3	650.9	814.1	928.6	902.0	831.3	807.8	801.6
80°	2010.9	831.3	445.5	454.9	500.4	641.5	768.6	743.5	671.4	644.7	619.6
82.5°	760.8	417.2	327.8	320.0	368.6	489.4	602.3	572.6	516.0	451.8	432.9
85°	287.0	207.1	200.7	194.5	216.5	290.2	373.3	367.0	307.5	262.0	257.3
87.5°	75.3	67.4	78.5	58.0	61.1	54.9	56.4	23.5	11.0	4.7	3.1
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)