

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: P652409

Luminaire Tested: **GALN-SA5B-840-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-840-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24423.5 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

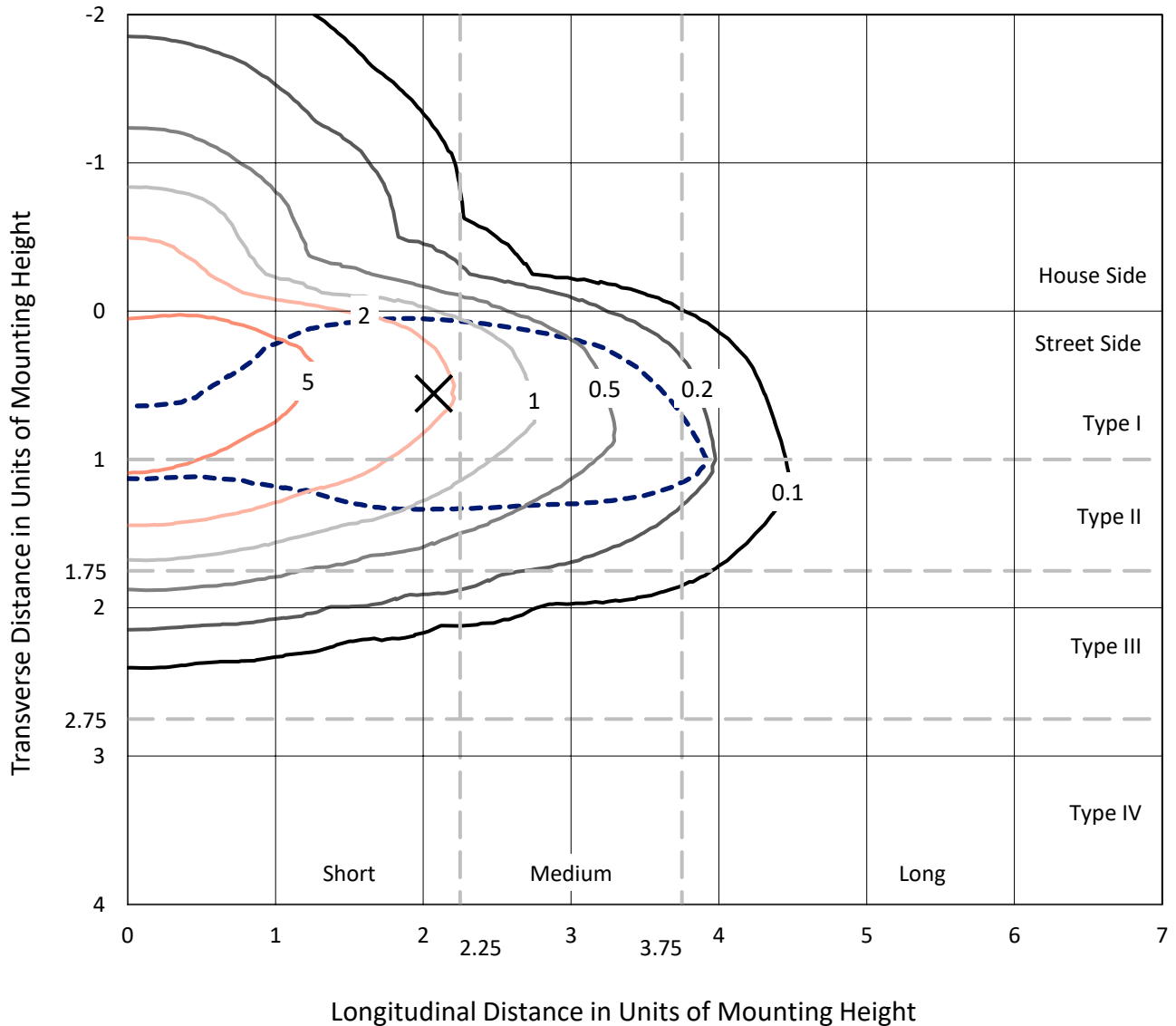
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

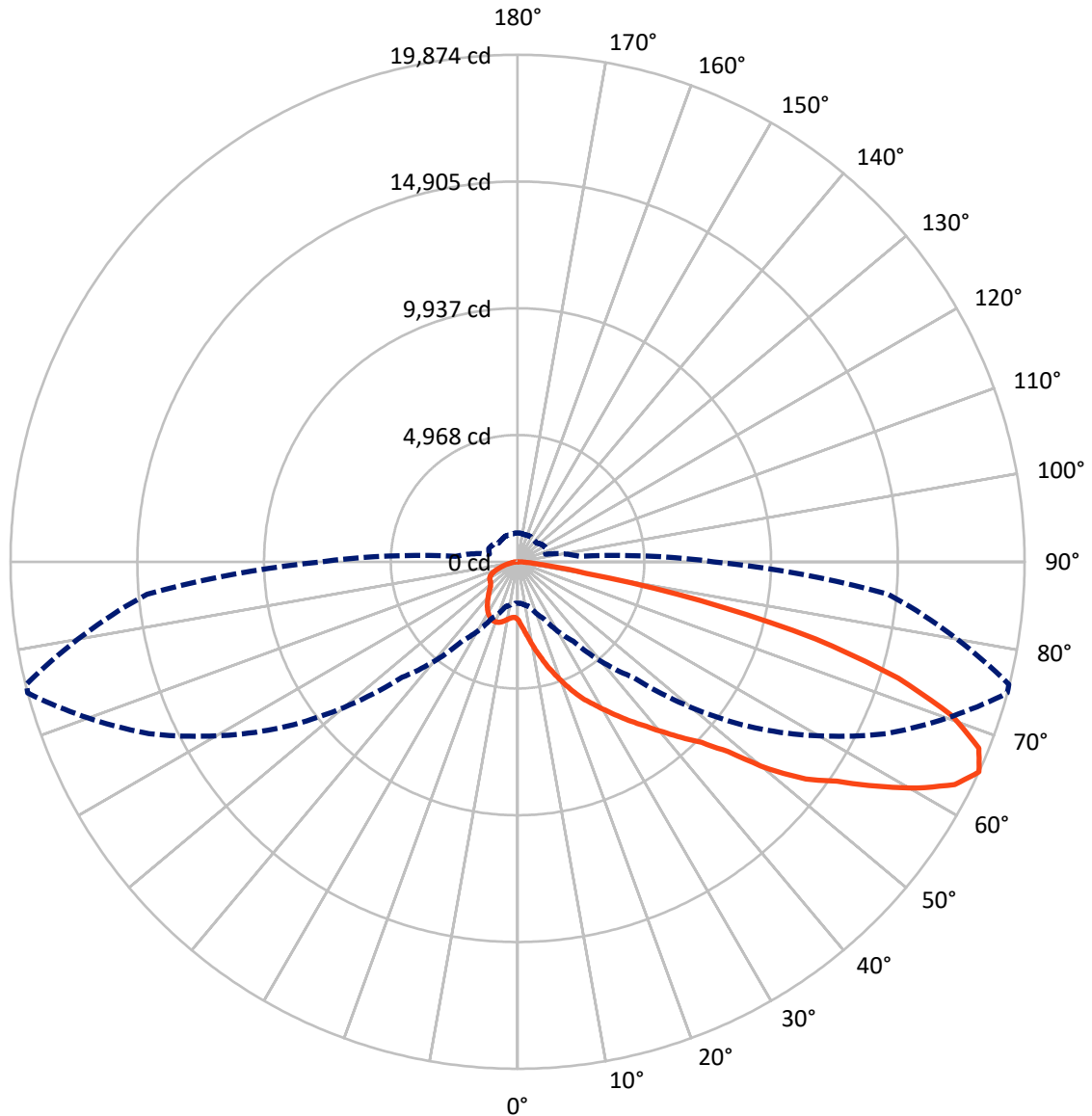
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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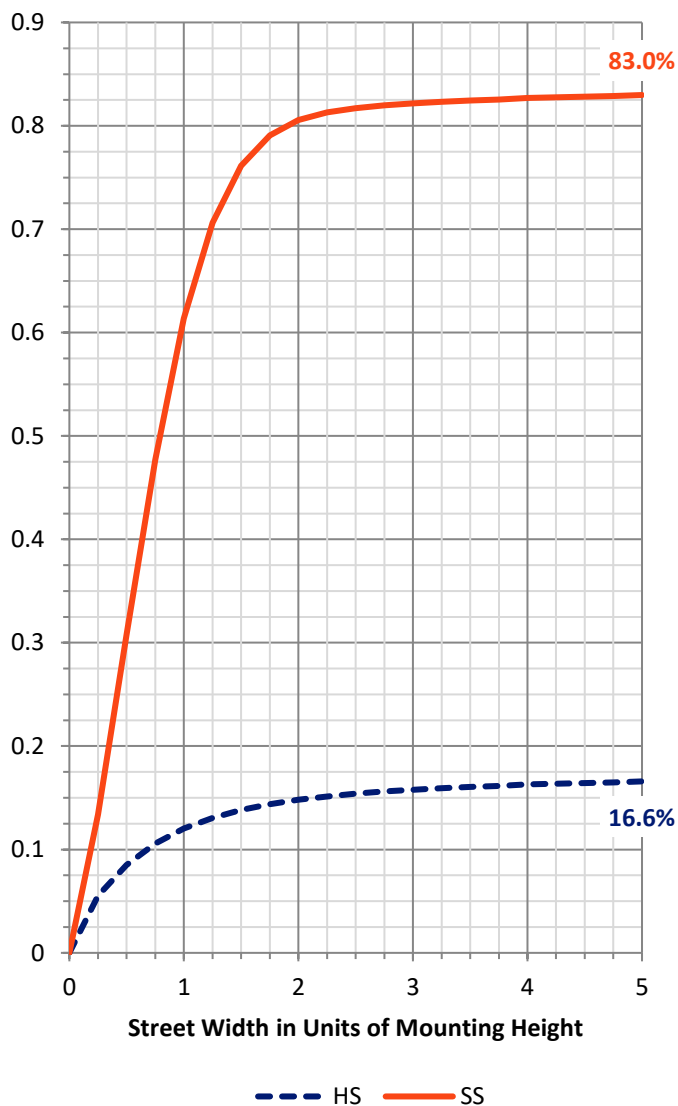
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4105.9	0.0	4105.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	20317.6	0.0	20317.6
	% Fixture	83.2	0.0	83.2
Total	Lumens	24423.5	0.0	24423.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.7	1.1
10°-20°	1079.9	4.4
20°-30°	2086.0	8.5
30°-40°	3388.3	13.9
40°-50°	4660.9	19.1
50°-60°	5503.0	22.5
60°-70°	4821.5	19.7
70°-80°	2301.8	9.4
80°-90°	306.3	1.3
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°	24423.5	100.0
0°-180°	24423.5	100.0

Coefficient of Utilization



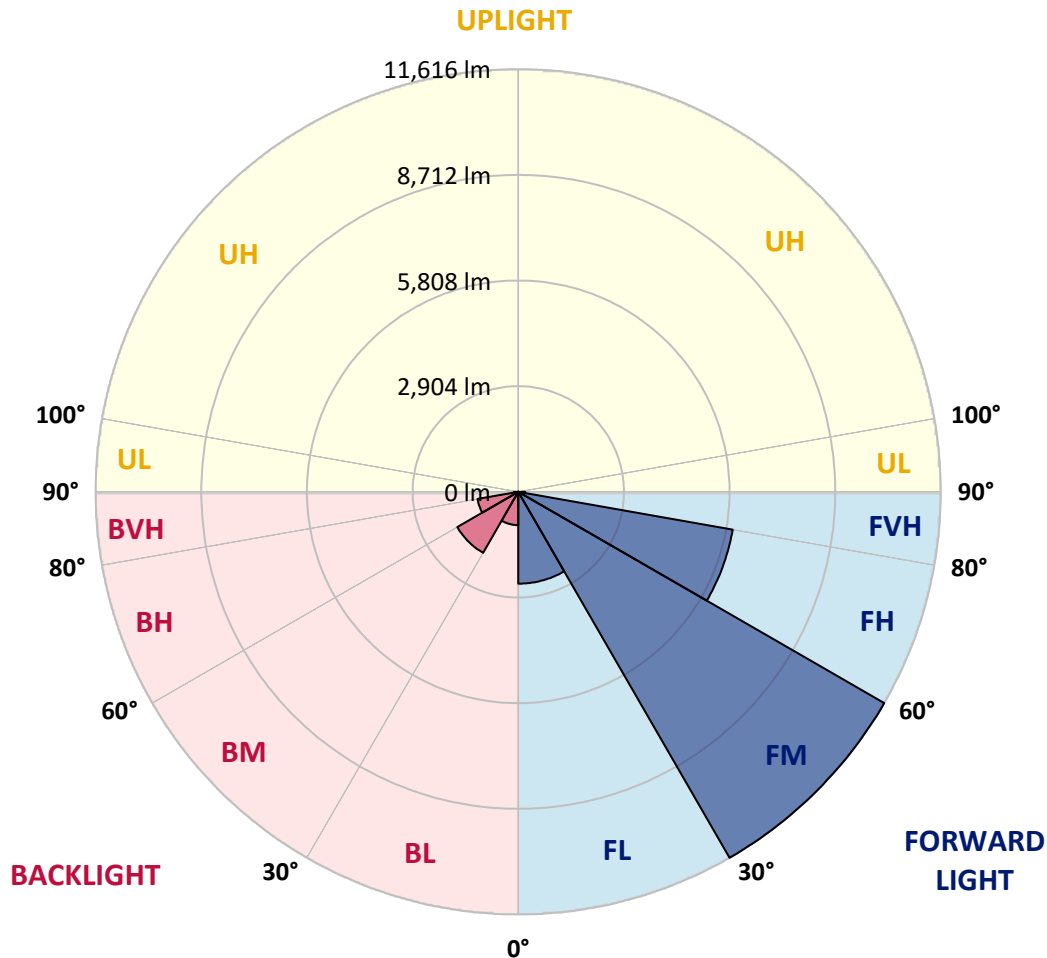
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2525.0	10.3			
FM (30°-60°)	11616.3	47.6			
FH (60°-80°)	5984.8	24.5			G3/7500
FVH (80°-90°)	191.4	0.8			G2/225
BL (0°-30°)	916.6	3.8	B2/1000		
BM (30°-60°)	1935.9	7.9	B2/2500		
BH (60°-80°)	1138.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	114.9	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2269.3	2269.3	2269.3	2269.3	2269.3	2269.3	2269.3	2269.3	2269.3	2269.3	2269.3
2.5°	3015.1	2995.2	2974.0	2915.7	2853.4	2783.2	2682.5	2585.8	2457.4	2453.4	2358.0
5°	3850.9	3837.7	3743.6	3689.4	3545.0	3352.9	3189.9	2936.9	2702.5	2674.6	2489.2
7.5°	4619.3	4567.6	4531.9	4433.8	4290.8	4044.4	3729.1	3387.3	2995.2	2958.1	2650.7
10°	5198.2	5192.9	5174.3	5089.6	4982.3	4737.2	4387.5	3897.4	3366.1	3293.3	2846.9
12.5°	5631.4	5635.4	5632.7	5631.4	5554.6	5346.6	4967.7	4451.1	3741.0	3689.4	3073.4
15°	5916.2	5956.0	5971.9	6038.1	6044.7	5905.6	5579.7	4986.3	4163.6	4086.8	3317.1
17.5°	6104.3	6124.2	6198.3	6310.9	6402.4	6377.2	6087.1	5481.7	4595.5	4467.0	3570.1
20°	6284.5	6318.9	6375.9	6529.5	6691.2	6765.3	6561.3	5989.1	5023.4	4941.2	3849.7
22.5°	6659.4	6708.4	6728.3	6806.5	6944.2	7075.3	6982.7	6475.3	5492.3	5381.1	4146.4
25°	7293.9	7345.5	7290.0	7271.4	7316.4	7381.4	7361.5	6933.6	5934.8	5775.8	4427.2
27.5°	8120.5	8127.2	8018.5	7915.2	7804.0	7770.8	7709.9	7340.2	6318.9	6186.5	4709.3
30°	9008.1	8976.3	8796.2	8609.4	8421.3	8235.8	8060.9	7732.4	6746.8	6594.4	4986.3
32.5°	9832.1	9814.9	9614.8	9324.8	9006.8	8831.9	8478.2	8128.5	7205.2	7058.1	5271.1
35°	10449.4	10474.6	10254.6	9938.1	9591.0	9436.0	8989.5	8544.5	7679.4	7519.1	5581.0
37.5°	10887.9	10874.6	10679.9	10405.7	10101.0	9965.8	9587.0	8998.9	8189.4	8035.8	5920.2
40°	11044.2	11036.3	10891.9	10691.8	10498.5	10450.8	10212.3	9489.0	8773.6	8593.5	6328.2
42.5°	10944.9	10962.1	10866.7	10812.4	10776.7	10811.1	10833.6	10131.4	9410.8	9245.3	6770.6
45°	10640.2	10630.9	10617.6	10706.4	10907.8	11134.3	11448.3	10738.2	10103.7	9971.1	7364.1
47.5°	10095.7	10162.0	10195.1	10440.2	10879.9	11416.5	12155.6	11551.6	11109.1	10993.9	8268.9
50°	9334.0	9387.0	9583.0	10018.9	10674.6	11522.5	12847.2	12881.6	12786.2	12570.3	9251.8
52.5°	8144.4	8226.5	8630.6	9429.4	10253.4	11478.7	13265.8	14022.2	14148.1	13986.4	10220.3
55°	6813.0	6928.3	7354.9	8402.7	9673.1	11240.3	13554.6	14683.2	15185.3	15035.6	11152.8
57.5°	5509.6	5631.4	6069.9	7084.6	8661.0	10713.0	13744.0	15419.7	16597.5	16402.7	12313.3
60°	4129.1	4256.3	4632.6	5677.8	7219.7	9682.4	13615.5	16058.3	18008.2	17924.8	13475.1
62.5°	2664.0	2804.4	3131.6	3996.7	5549.3	8274.2	12927.9	16410.7	19229.6	19129.0	14322.9
65°	1622.8	1638.7	1818.8	2481.2	3798.0	6406.3	11355.5	15943.0	19873.5	19843.1	14581.3
67.5°	1049.1	1074.4	1156.5	1486.3	2277.2	4449.7	9079.7	14399.8	19497.2	19486.6	14047.4
70°	886.2	894.2	931.2	1002.8	1323.4	2698.4	6375.9	11939.8	18067.9	18067.9	12763.7
72.5°	792.2	802.8	816.0	838.6	944.5	1528.8	3804.6	9294.2	15600.0	15703.2	10864.0
75°	719.3	716.7	724.6	728.6	805.4	998.9	1967.2	6874.0	12068.2	11861.5	7867.6
77.5°	616.0	620.0	616.0	633.2	711.4	760.4	998.9	4612.7	7313.8	7046.2	3949.0
80°	506.0	512.7	519.3	529.9	608.0	577.6	600.1	2102.3	2705.1	2648.1	1220.0
82.5°	380.2	389.5	400.1	425.2	478.2	381.6	378.9	898.2	976.3	894.2	449.1
85°	153.7	181.5	274.3	299.4	300.7	209.3	233.1	374.9	398.7	389.5	176.2
87.5°	35.7	42.4	88.7	133.8	123.2	78.1	86.1	121.9	139.1	128.5	59.6
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°	2269.3	2269.3	2269.3	2269.3	2269.3	2269.3	2269.3	2269.3	2269.3	2269.3	2269.3
2.5°	2314.3	2267.9	2188.5	2127.5	2083.8	2045.4	2021.5	2007.0	2001.7	2000.3	2001.7
5°	2392.5	2310.3	2184.5	2105.0	2061.3	2036.1	2021.5	2020.2	2021.5	2022.9	2018.9
7.5°	2499.8	2381.9	2217.5	2143.4	2110.3	2091.7	2085.1	2082.5	2083.8	2082.5	2082.5
10°	2642.8	2481.2	2282.5	2205.7	2177.9	2156.7	2146.1	2139.4	2134.1	2128.8	2126.2
12.5°	2800.4	2591.1	2352.7	2278.5	2238.7	2205.7	2181.8	2164.6	2152.7	2140.8	2138.1
15°	2976.6	2707.8	2430.8	2327.6	2270.6	2221.6	2180.5	2152.7	2131.5	2114.3	2112.9
17.5°	3144.9	2817.7	2483.9	2350.1	2266.6	2197.7	2143.4	2105.0	2078.5	2056.0	2053.3
20°	3325.1	2922.3	2507.7	2335.5	2226.9	2143.4	2071.9	2025.5	1995.0	1969.9	1965.9
22.5°	3506.5	3011.1	2505.1	2289.1	2158.0	2059.9	1984.4	1935.4	1899.7	1874.5	1865.2
25°	3680.0	3082.6	2472.0	2214.9	2062.6	1960.6	1883.8	1838.7	1806.9	1776.4	1776.4
27.5°	3836.4	3125.0	2409.6	2124.9	1964.6	1857.3	1796.3	1755.3	1726.2	1706.2	1694.3
30°	3990.0	3144.9	2324.9	2010.9	1861.2	1769.8	1720.9	1697.0	1670.5	1647.9	1645.3
32.5°	4127.8	3140.9	2218.9	1899.7	1763.2	1698.3	1678.4	1659.9	1632.0	1600.3	1592.3
35°	4261.6	3114.4	2093.1	1777.8	1681.1	1655.9	1661.2	1634.7	1584.4	1544.7	1538.0
37.5°	4407.3	3066.7	1955.3	1678.4	1612.2	1636.0	1649.3	1591.0	1508.8	1446.6	1432.1
40°	4575.6	3012.4	1812.2	1579.1	1557.9	1617.5	1617.5	1510.2	1397.6	1359.1	1348.5
42.5°	4773.0	2967.4	1693.0	1495.6	1512.9	1572.4	1565.9	1402.9	1356.5	1336.7	1331.4
45°	5085.6	2951.5	1569.8	1422.7	1475.7	1519.4	1465.1	1365.8	1339.3	1323.4	1318.1
47.5°	5579.7	2970.0	1461.2	1368.5	1433.3	1466.5	1352.6	1340.6	1322.1	1299.5	1296.9
50°	6038.1	2952.8	1384.4	1337.9	1396.2	1402.9	1306.2	1310.1	1299.5	1274.4	1269.1
52.5°	6413.0	2898.5	1335.3	1322.1	1364.4	1291.6	1262.4	1277.1	1273.0	1241.2	1235.9
55°	6825.0	2865.4	1311.5	1322.1	1343.2	1194.9	1221.4	1242.6	1237.3	1214.7	1213.5
57.5°	7324.4	2872.0	1294.2	1326.1	1322.1	1145.9	1180.3	1205.5	1204.1	1197.6	1197.6
60°	7835.8	2874.6	1267.7	1324.7	1296.9	1107.4	1138.0	1173.7	1176.4	1180.3	1180.3
62.5°	8005.3	2759.4	1216.1	1300.9	1241.2	1070.3	1098.2	1147.2	1144.6	1155.2	1156.5
65°	7688.7	2440.2	1139.3	1246.5	1169.7	1043.8	1067.7	1112.7	1098.2	1126.0	1131.3
67.5°	6998.5	2018.9	1020.0	1148.6	1090.3	1016.1	1047.9	1065.0	1038.6	1092.9	1094.2
70°	6048.7	1576.5	869.0	1009.5	1000.2	986.9	1032.0	1005.5	968.4	1034.6	1021.4
72.5°	5057.8	1204.1	694.2	825.3	879.6	943.2	1004.2	928.6	877.0	896.8	873.0
75°	3799.3	890.2	557.7	646.5	732.6	880.9	979.0	835.9	756.4	737.9	732.6
77.5°	1936.7	581.6	417.3	483.5	549.8	796.2	944.5	727.3	626.6	597.4	584.2
80°	691.5	361.6	294.1	333.8	370.9	684.9	825.3	601.4	486.2	480.9	486.2
82.5°	320.6	233.1	197.4	218.6	219.9	457.0	629.2	449.1	369.6	561.7	474.2
85°	137.8	116.6	111.3	108.7	100.7	204.0	353.7	241.1	376.2	168.2	155.0
87.5°	41.0	46.3	41.0	30.4	22.5	22.5	35.7	13.3	9.3	6.6	6.6
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)