

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: P648504

Luminaire Tested: **GALN-SA6B-835-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648504  
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-SA6B-835-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 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: 26925.8 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

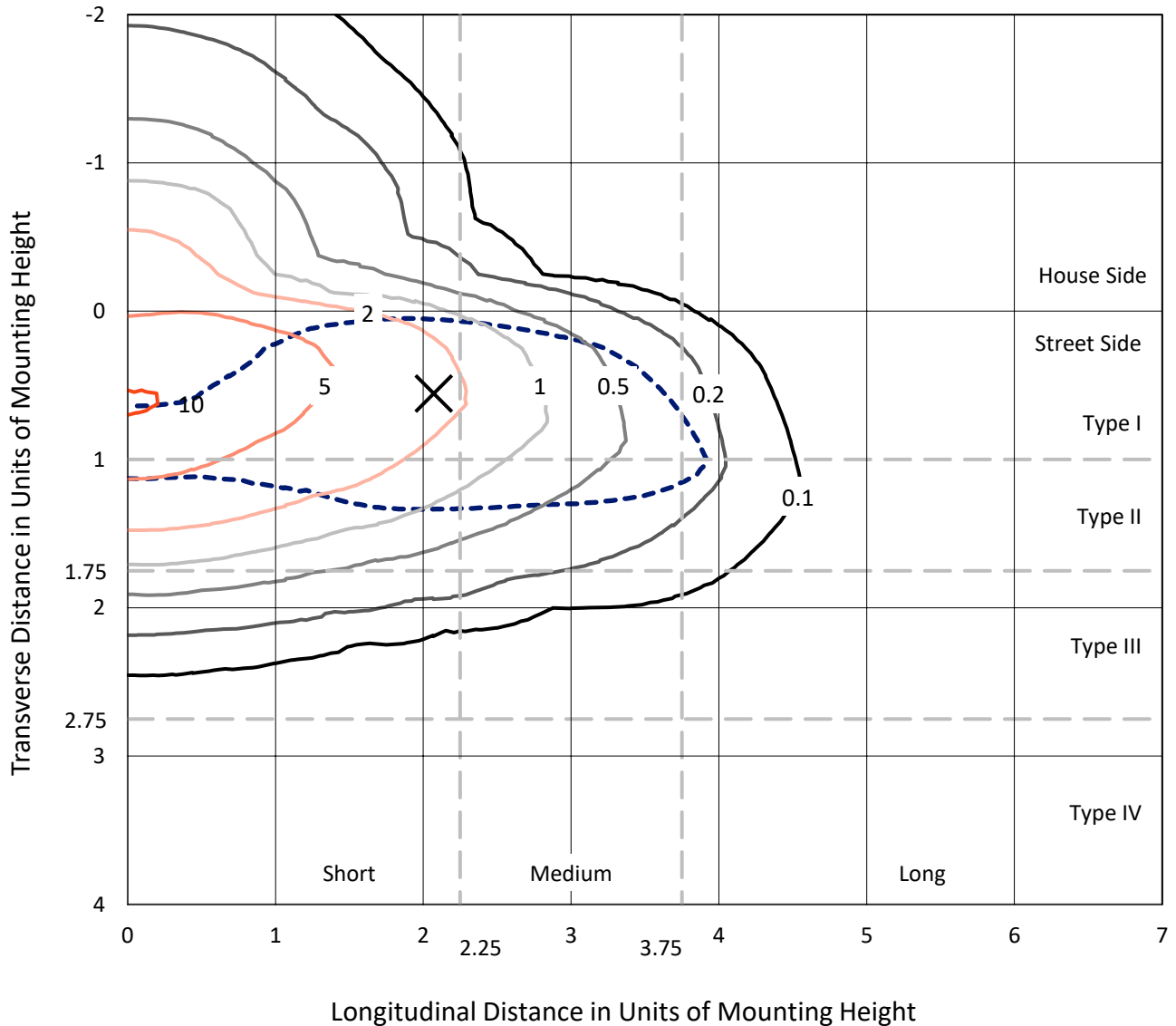
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

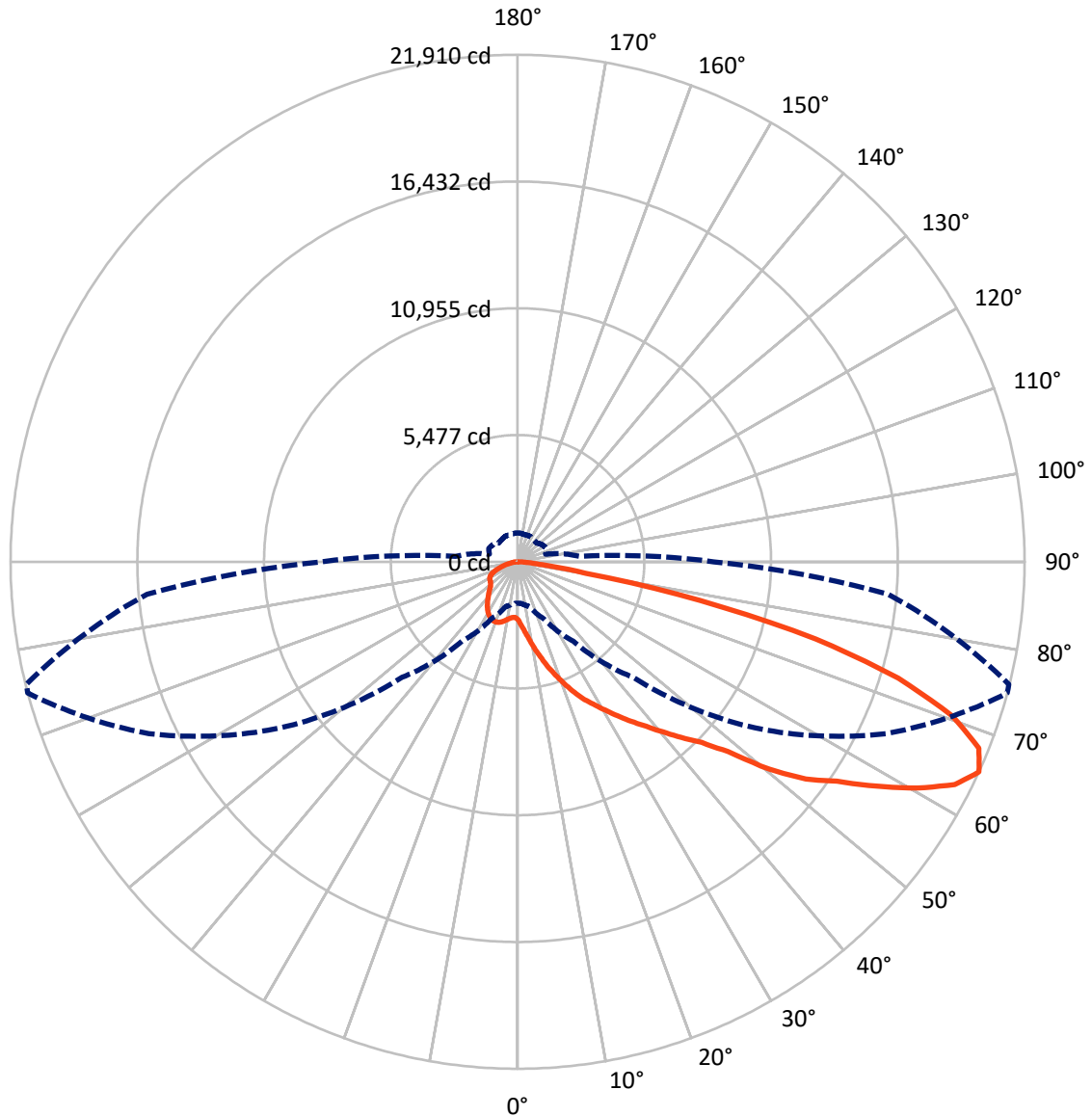
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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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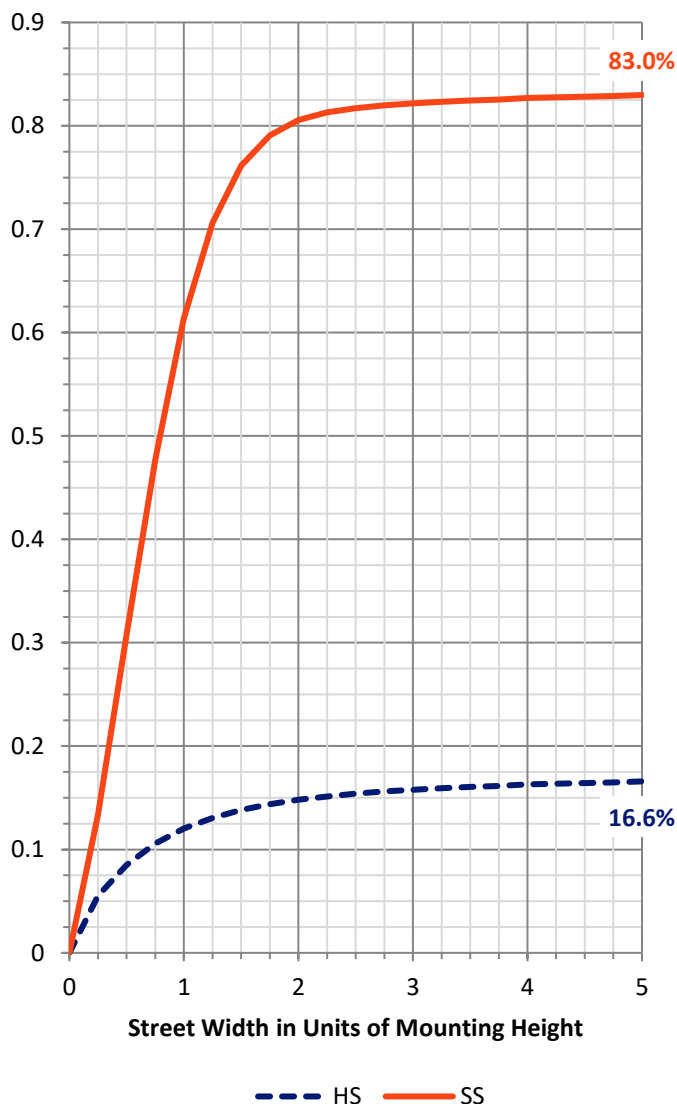
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4526.6	0.0	4526.6
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	22399.2	0.0	22399.2
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	26925.8	0.0	26925.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.0	1.1
10°-20°	1190.5	4.4
20°-30°	2299.7	8.5
30°-40°	3735.5	13.9
40°-50°	5138.5	19.1
50°-60°	6066.8	22.5
60°-70°	5315.5	19.7
70°-80°	2537.7	9.4
80°-90°	337.7	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°	26925.8	100.0
0°-180°	26925.8	100.0

**Coefficient of Utilization**

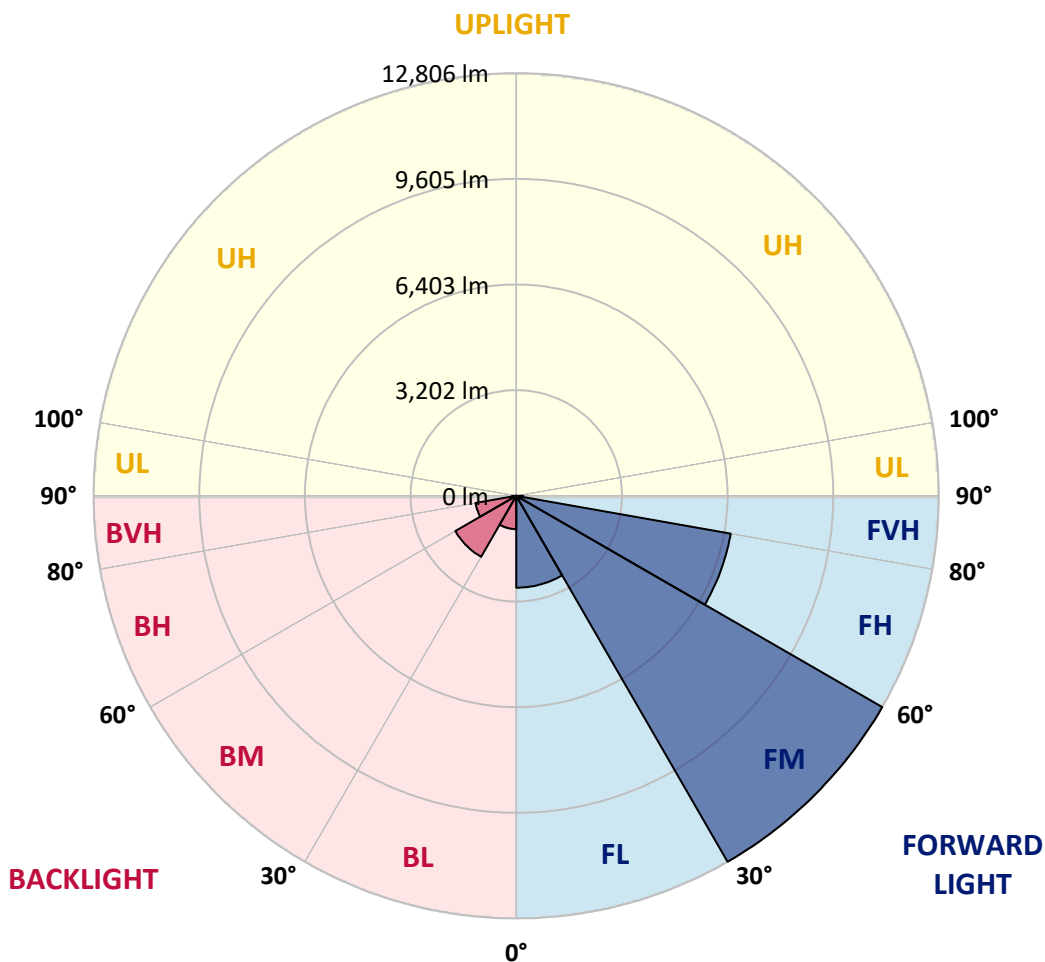


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2783.7	10.3			
FM (30°-60°)	12806.5	47.6			
FH (60°-80°)	6598.0	24.5			G3/7500
FVH (80°-90°)	211.0	0.8			G2/225
BL (0°-30°)	1010.5	3.8	B3/2500		
BM (30°-60°)	2134.3	7.9	B2/2500		
BH (60°-80°)	1255.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	126.6	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°	2501.8	2501.8	2501.8	2501.8	2501.8	2501.8	2501.8	2501.8	2501.8	2501.8	2501.8
2.5°	3324.0	3302.1	3278.7	3214.4	3145.8	3068.4	2957.4	2850.8	2709.1	2704.7	2599.6
5°	4245.5	4230.9	4127.2	4067.4	3908.2	3696.4	3516.8	3237.8	2979.3	2948.6	2744.2
7.5°	5092.6	5035.6	4996.2	4888.1	4730.4	4458.7	4111.1	3734.4	3302.1	3261.2	2922.4
10°	5730.8	5725.0	5704.5	5611.1	5492.7	5222.5	4837.0	4296.6	3711.0	3630.7	3138.5
12.5°	6208.3	6212.7	6209.8	6208.3	6123.7	5894.3	5476.7	4907.1	4124.3	4067.4	3388.3
15°	6522.4	6566.2	6583.7	6656.8	6664.0	6510.6	6151.4	5497.1	4590.2	4505.5	3656.9
17.5°	6729.7	6751.7	6833.4	6957.6	7058.4	7030.6	6710.8	6043.4	5066.3	4924.6	3935.9
20°	6928.4	6966.4	7029.1	7198.5	7376.7	7458.5	7233.6	6602.6	5538.0	5447.5	4244.1
22.5°	7341.6	7395.7	7417.6	7503.8	7655.7	7800.2	7698.0	7138.7	6055.0	5932.3	4571.2
25°	8041.3	8098.2	8036.9	8016.4	8066.1	8137.6	8115.7	7644.0	6542.8	6367.6	4880.8
27.5°	8952.5	8959.9	8840.1	8726.1	8603.5	8567.0	8499.8	8092.3	6966.4	6820.3	5191.9
30°	9931.0	9896.0	9697.4	9491.4	9284.0	9079.6	8886.8	8524.6	7438.0	7270.1	5497.1
32.5°	10839.5	10820.4	10599.9	10280.1	9929.6	9736.8	9346.8	8961.3	7943.4	7781.3	5811.1
35°	11520.0	11547.8	11305.3	10956.3	10573.6	10402.8	9910.6	9419.9	8466.2	8289.5	6152.9
37.5°	12003.4	11988.8	11774.1	11471.8	11135.9	10987.0	10569.2	9920.8	9028.5	8859.1	6526.8
40°	12175.7	12167.0	12007.8	11787.3	11574.1	11521.5	11258.6	10461.2	9672.6	9473.9	6976.5
42.5°	12066.2	12085.2	11980.1	11920.2	11880.8	11918.7	11943.6	11169.5	10375.0	10192.5	7464.3
45°	11730.3	11720.1	11705.5	11803.3	12025.3	12275.1	12621.2	11838.4	11138.8	10992.8	8118.6
47.5°	11130.1	11203.1	11239.6	11509.8	11994.6	12586.2	13401.0	12735.1	12247.3	12120.3	9116.1
50°	10290.3	10348.8	10564.9	11045.4	11768.3	12703.0	14163.5	14201.4	14096.3	13858.2	10199.7
52.5°	8978.8	9069.4	9514.8	10395.5	11303.9	12654.8	14625.0	15458.8	15597.6	15419.4	11267.4
55°	7511.1	7638.2	8108.4	9263.6	10664.2	12391.9	14943.3	16187.6	16741.1	16576.1	12295.5
57.5°	6074.0	6208.3	6691.8	7810.5	9548.4	11810.6	15152.1	16999.6	18297.9	18083.2	13574.9
60°	4552.2	4692.4	5107.2	6259.5	7959.4	10674.4	15010.5	17703.6	19853.4	19761.4	14855.7
62.5°	2937.0	3091.8	3452.5	4406.2	6117.8	9122.0	14252.5	18092.0	21199.9	21088.9	15790.4
65°	1789.1	1806.5	2005.2	2735.4	4187.1	7062.7	12519.0	17576.5	21909.7	21876.1	16075.1
67.5°	1156.6	1184.4	1275.0	1638.6	2510.5	4905.7	10009.9	15875.1	21494.8	21483.2	15486.6
70°	977.0	985.8	1026.7	1105.6	1459.0	2974.9	7029.1	13163.0	19919.1	19919.1	14071.4
72.5°	873.4	885.0	899.7	924.5	1041.3	1685.3	4194.4	10246.5	17198.2	17312.1	11977.2
75°	793.0	790.1	798.9	803.3	887.9	1101.2	2168.8	7578.3	13304.7	13076.9	8673.6
77.5°	679.1	683.5	679.1	698.1	784.3	838.3	1101.2	5085.3	8063.1	7768.1	4353.6
80°	557.9	565.2	572.5	584.2	670.3	636.7	661.6	2317.8	2982.2	2919.4	1345.0
82.5°	419.1	429.4	441.1	468.8	527.2	420.6	417.7	990.2	1076.3	985.8	495.1
85°	169.4	200.1	302.3	330.0	331.5	230.8	257.1	413.3	439.6	429.4	194.3
87.5°	39.5	46.7	97.9	147.5	135.9	86.1	94.9	134.4	153.3	141.6	65.7
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°	2501.8	2501.8	2501.8	2501.8	2501.8	2501.8	2501.8	2501.8	2501.8	2501.8	2501.8
2.5°	2551.4	2500.3	2412.7	2345.5	2297.3	2255.0	2228.7	2212.6	2206.7	2205.2	2206.7
5°	2637.5	2547.0	2408.3	2320.7	2272.4	2244.7	2228.7	2227.2	2228.7	2230.1	2225.8
7.5°	2755.8	2625.9	2444.8	2363.0	2326.5	2306.0	2298.7	2295.8	2297.3	2295.8	2295.8
10°	2913.6	2735.4	2516.3	2431.7	2401.0	2377.6	2365.9	2358.6	2352.8	2347.0	2344.0
12.5°	3087.4	2856.6	2593.8	2511.9	2468.2	2431.7	2405.4	2386.3	2373.2	2360.1	2357.1
15°	3281.6	2985.2	2679.9	2566.0	2503.2	2449.1	2403.9	2373.2	2349.9	2330.9	2329.4
17.5°	3467.1	3106.4	2738.3	2590.9	2498.8	2422.9	2363.0	2320.7	2291.4	2266.6	2263.7
20°	3665.7	3221.7	2764.6	2574.7	2455.0	2363.0	2284.2	2233.0	2199.4	2171.7	2167.3
22.5°	3865.8	3319.6	2761.7	2523.7	2379.1	2271.0	2187.8	2133.8	2094.3	2066.6	2056.3
25°	4057.1	3398.5	2725.2	2441.9	2273.9	2161.5	2076.8	2027.1	1992.0	1958.4	1958.4
27.5°	4229.5	3445.2	2656.6	2342.6	2165.9	2047.5	1980.4	1935.1	1902.9	1881.1	1867.9
30°	4398.9	3467.1	2563.1	2217.0	2051.9	1951.2	1897.1	1870.8	1841.6	1816.8	1813.9
32.5°	4550.7	3462.7	2446.2	2094.3	1943.9	1872.3	1850.4	1829.9	1799.3	1764.3	1755.5
35°	4698.2	3433.5	2307.5	1959.9	1853.3	1825.6	1831.4	1802.2	1746.7	1702.9	1695.6
37.5°	4858.9	3380.9	2155.6	1850.4	1777.3	1803.6	1818.3	1754.0	1663.5	1594.8	1578.8
40°	5044.4	3321.1	1997.9	1740.8	1717.5	1783.2	1783.2	1664.9	1540.8	1498.4	1486.8
42.5°	5262.0	3271.4	1866.4	1648.8	1667.9	1733.6	1726.3	1546.6	1495.5	1473.6	1467.7
45°	5606.7	3253.9	1730.7	1568.5	1626.9	1675.2	1615.3	1505.7	1476.5	1459.0	1453.2
47.5°	6151.4	3274.3	1610.9	1508.6	1580.2	1616.7	1491.1	1478.0	1457.6	1432.7	1429.8
50°	6656.8	3255.3	1526.1	1475.0	1539.3	1546.6	1440.0	1444.4	1432.7	1404.9	1399.1
52.5°	7070.0	3195.4	1472.1	1457.6	1504.3	1424.0	1391.8	1407.8	1403.5	1368.4	1362.6
55°	7524.2	3158.9	1445.8	1457.6	1480.9	1317.3	1346.5	1369.9	1364.1	1339.2	1337.8
57.5°	8074.8	3166.2	1426.9	1461.9	1457.6	1263.3	1301.3	1329.0	1327.6	1320.2	1320.2
60°	8638.5	3169.2	1397.7	1460.5	1429.8	1220.9	1254.5	1294.0	1296.9	1301.3	1301.3
62.5°	8825.5	3042.1	1340.7	1434.1	1368.4	1180.1	1210.7	1264.8	1261.8	1273.5	1275.0
65°	8476.4	2690.2	1256.0	1374.2	1289.6	1150.9	1177.1	1226.8	1210.7	1241.4	1247.2
67.5°	7715.5	2225.8	1124.5	1266.2	1202.0	1120.2	1155.2	1174.2	1145.0	1204.9	1206.4
70°	6668.4	1737.9	958.1	1112.9	1102.6	1088.1	1137.7	1108.5	1067.6	1140.6	1126.0
72.5°	5576.0	1327.6	765.3	909.8	969.7	1039.8	1107.0	1023.8	966.8	988.7	962.5
75°	4188.6	981.4	614.8	712.7	807.7	971.2	1079.3	921.5	833.9	813.5	807.7
77.5°	2135.2	641.1	460.0	533.1	606.1	877.7	1041.3	801.8	690.8	658.7	644.1
80°	762.3	398.7	324.2	368.0	409.0	755.0	909.8	663.0	536.0	530.2	536.0
82.5°	353.4	257.1	217.6	241.0	242.4	503.9	693.7	495.1	407.5	619.2	522.8
85°	151.9	128.5	122.7	119.7	111.0	224.9	389.9	265.8	414.8	185.5	170.9
87.5°	45.3	51.1	45.3	33.6	24.8	24.8	39.5	14.6	10.3	7.3	7.3
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)