

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: P648064

Luminaire Tested: **GALN-SA7A-835-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648064
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-SA7A-835-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25417.8 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

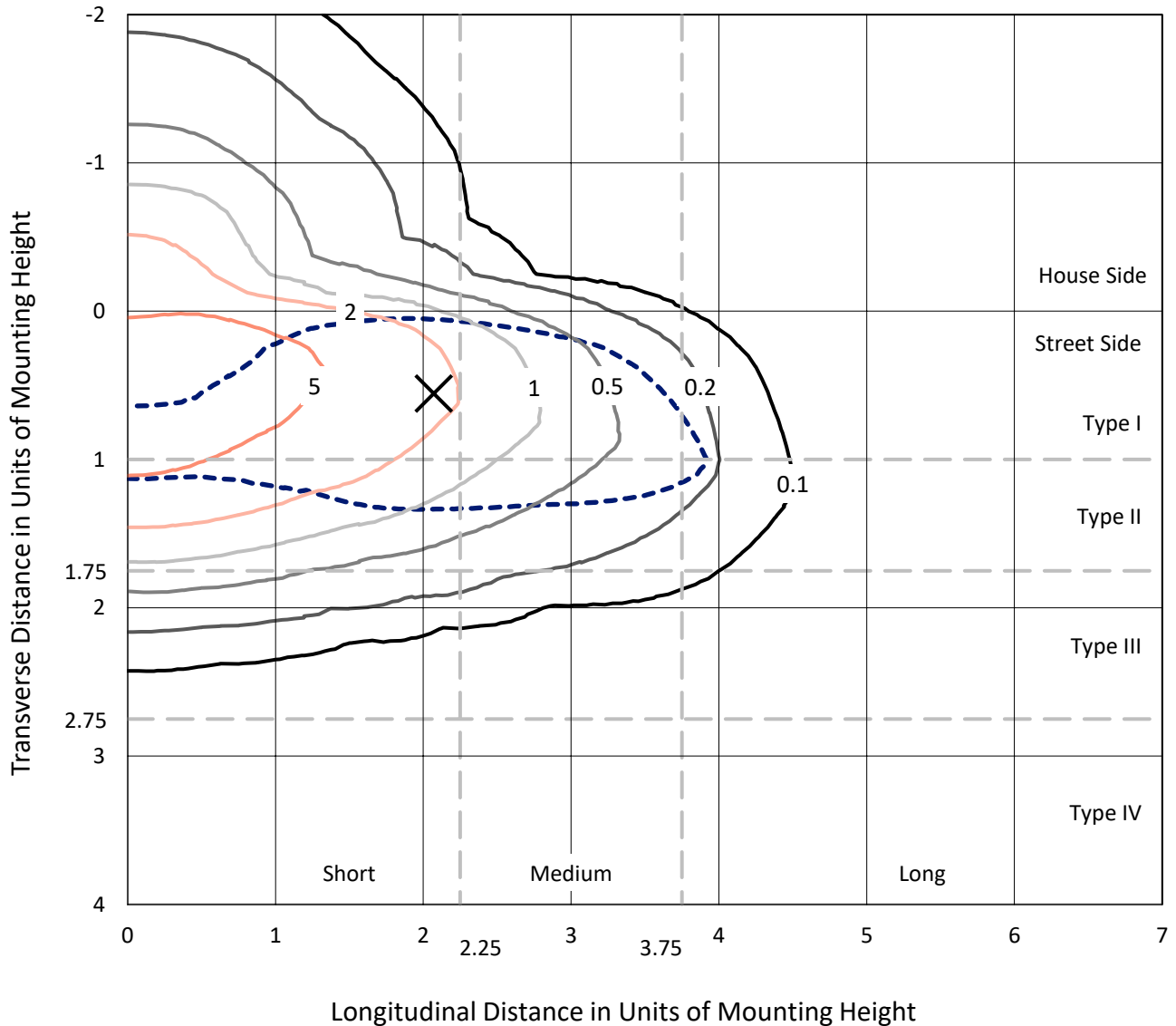
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

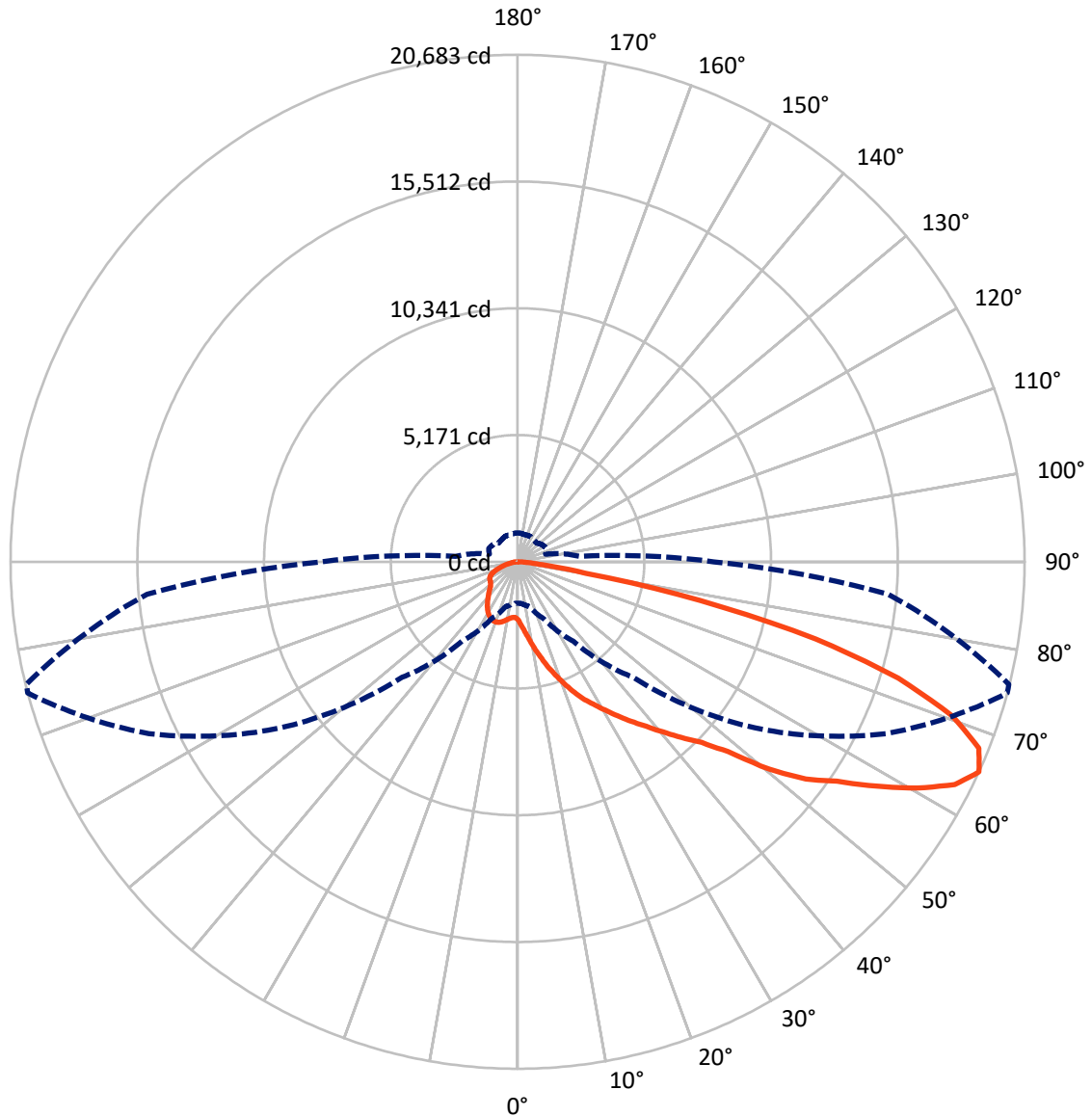
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA7A-835-U-T2R

Luminous Intensity Polar Plot



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

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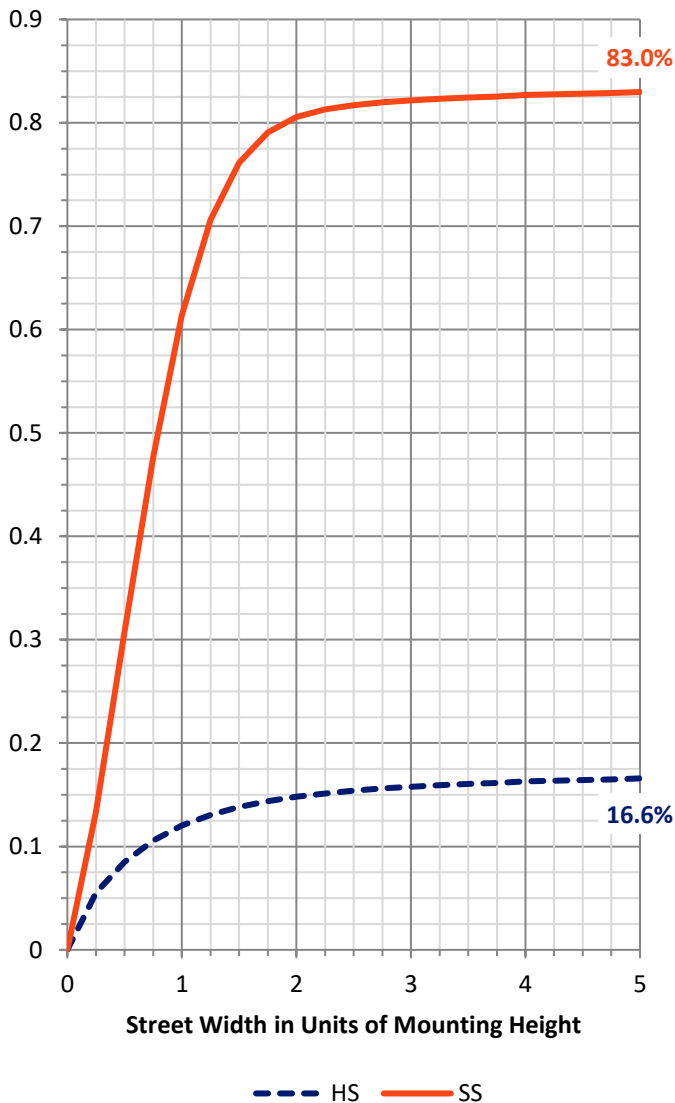
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4273.1	0.0	4273.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	21144.7	0.0	21144.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	25417.8	0.0	25417.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.9	1.1
10°-20°	1123.9	4.4
20°-30°	2170.9	8.5
30°-40°	3526.3	13.9
40°-50°	4850.7	19.1
50°-60°	5727.0	22.5
60°-70°	5017.8	19.7
70°-80°	2395.5	9.4
80°-90°	318.8	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°	25417.8	100.0
0°-180°	25417.8	100.0

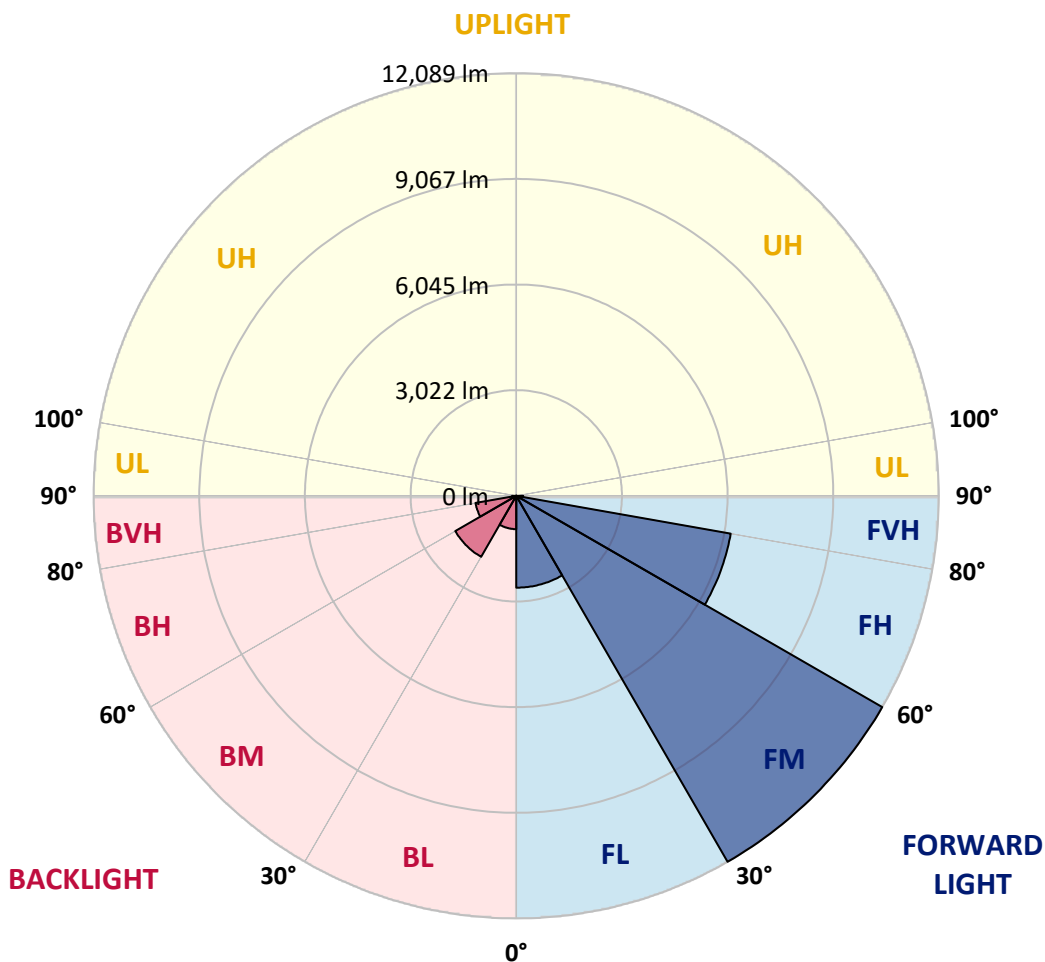


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2627.8	10.3			
FM (30°-60°)	12089.2	47.6			
FH (60°-80°)	6228.5	24.5			G3/7500
FVH (80°-90°)	199.2	0.8			G2/225
BL (0°-30°)	953.9	3.8	B2/1000		
BM (30°-60°)	2014.7	7.9	B2/2500		
BH (60°-80°)	1184.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	119.6	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°	2361.6	2361.6	2361.6	2361.6	2361.6	2361.6	2361.6	2361.6	2361.6	2361.6	2361.6
2.5°	3137.8	3117.1	3095.0	3034.4	2969.6	2896.6	2791.8	2691.1	2557.4	2553.3	2454.0
5°	4007.7	3993.9	3896.1	3839.5	3689.3	3489.4	3319.8	3056.4	2812.5	2783.5	2590.5
7.5°	4807.4	4753.6	4716.4	4614.4	4465.4	4209.0	3880.9	3525.2	3117.1	3078.5	2758.7
10°	5409.8	5404.3	5385.0	5296.8	5185.1	4930.1	4566.1	4056.0	3503.1	3427.3	2962.7
12.5°	5860.7	5864.7	5862.0	5860.7	5780.7	5564.2	5169.9	4632.3	3893.3	3839.5	3198.5
15°	6157.0	6198.4	6215.0	6283.9	6290.8	6146.0	5806.9	5189.3	4333.1	4253.2	3452.2
17.5°	6352.8	6373.5	6450.7	6567.9	6663.0	6636.9	6334.9	5704.9	4782.6	4648.8	3715.5
20°	6540.3	6576.2	6635.5	6795.3	6963.5	7040.7	6828.5	6232.9	5227.9	5142.4	4006.4
22.5°	6930.5	6981.5	7002.1	7083.5	7226.9	7363.4	7266.9	6738.8	5715.9	5600.1	4315.2
25°	7590.9	7644.6	7586.7	7567.4	7614.3	7681.9	7661.2	7215.9	6176.4	6010.9	4607.5
27.5°	8451.2	8458.0	8345.0	8237.5	8121.7	8087.1	8023.7	7639.1	6576.2	6438.3	4901.1
30°	9374.9	9341.7	9154.2	8959.9	8764.1	8571.1	8389.1	8047.2	7021.5	6862.9	5189.3
32.5°	10232.3	10214.4	10006.3	9704.3	9373.4	9191.5	8823.4	8459.4	7498.5	7345.5	5485.6
35°	10874.8	10901.0	10672.1	10342.6	9981.4	9820.2	9355.5	8892.3	7992.0	7825.2	5808.3
37.5°	11331.1	11317.3	11114.7	10829.3	10512.2	10371.6	9977.3	9365.1	8522.8	8362.9	6161.2
40°	11493.8	11485.5	11335.3	11127.1	10925.8	10876.2	10628.1	9875.3	9130.8	8943.3	6585.8
42.5°	11390.4	11408.3	11309.1	11252.6	11215.3	11251.2	11274.6	10544.0	9793.9	9621.6	7046.3
45°	11073.3	11063.7	11049.9	11142.2	11351.8	11587.5	11914.3	11175.4	10515.0	10377.1	7663.9
47.5°	10506.7	10575.7	10610.1	10865.1	11322.9	11881.2	12650.5	12021.9	11561.4	11441.4	8605.6
50°	9714.0	9769.1	9973.1	10426.7	11109.2	11991.5	13370.2	13406.0	13306.8	13082.1	9628.5
52.5°	8476.0	8561.4	8981.9	9813.3	10670.7	11946.0	13805.8	14593.0	14724.0	14555.8	10636.3
55°	7090.4	7210.3	7654.3	8744.8	10066.9	11697.9	14106.4	15280.9	15803.4	15647.7	11606.9
57.5°	5733.8	5860.7	6317.0	7373.0	9013.7	11149.1	14303.5	16047.5	17273.1	17070.5	12814.6
60°	4297.3	4429.6	4821.2	5908.9	7513.7	10076.6	14169.8	16712.0	18741.4	18654.5	14023.6
62.5°	2772.4	2918.6	3259.2	4159.4	5775.2	8611.0	13454.3	17078.7	20012.5	19907.7	14906.0
65°	1688.9	1705.4	1892.9	2582.2	3952.6	6667.2	11817.8	16592.1	20682.6	20650.8	15174.9
67.5°	1091.9	1118.1	1203.5	1546.8	2369.9	4630.9	9449.2	14985.9	20291.0	20279.9	14619.2
70°	922.3	930.6	969.2	1043.7	1377.3	2808.3	6635.5	12425.8	18803.4	18803.4	13283.3
72.5°	824.4	835.5	849.2	872.7	983.0	1591.0	3959.5	9672.6	16235.0	16342.5	11306.3
75°	748.6	745.9	754.1	758.3	838.2	1039.5	2047.3	7153.8	12559.5	12344.5	8187.8
77.5°	641.0	645.2	641.0	659.0	740.3	791.4	1039.5	4800.5	7611.5	7333.0	4109.7
80°	526.6	533.5	540.4	551.5	632.8	601.1	624.5	2187.9	2815.2	2755.9	1269.7
82.5°	395.6	405.4	416.3	442.6	497.7	397.1	394.3	934.7	1016.1	930.6	467.4
85°	159.9	188.9	285.4	311.6	313.0	217.8	242.7	390.2	415.0	405.4	183.4
87.5°	37.2	44.1	92.4	139.2	128.2	81.4	89.6	126.8	144.8	133.7	62.0
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°	2361.6	2361.6	2361.6	2361.6	2361.6	2361.6	2361.6	2361.6	2361.6	2361.6	2361.6
2.5°	2408.5	2360.3	2277.5	2214.1	2168.6	2128.7	2103.8	2088.7	2083.2	2081.8	2083.2
5°	2489.9	2404.4	2273.4	2190.7	2145.2	2119.0	2103.8	2102.4	2103.8	2105.2	2101.1
7.5°	2601.5	2478.8	2307.9	2230.7	2196.2	2176.9	2170.0	2167.3	2168.6	2167.3	2167.3
10°	2750.4	2582.2	2375.4	2295.4	2266.5	2244.5	2233.4	2226.5	2221.0	2215.5	2212.8
12.5°	2914.5	2696.7	2448.5	2371.3	2329.9	2295.4	2270.6	2252.7	2240.3	2227.9	2225.1
15°	3097.9	2817.9	2529.8	2422.3	2363.0	2312.0	2269.3	2240.3	2218.2	2200.3	2199.0
17.5°	3272.9	2932.4	2585.0	2445.7	2358.9	2287.2	2230.7	2190.7	2163.1	2139.7	2136.9
20°	3460.4	3041.3	2609.8	2430.6	2317.5	2230.7	2156.2	2108.0	2076.3	2050.1	2045.9
22.5°	3649.3	3133.6	2607.0	2382.3	2245.8	2143.8	2065.2	2014.2	1977.0	1950.8	1941.1
25°	3829.9	3208.1	2572.5	2305.1	2146.6	2040.4	1960.5	1913.6	1880.5	1848.7	1848.7
27.5°	3992.6	3252.3	2507.8	2211.3	2044.6	1932.8	1869.4	1826.7	1796.4	1775.7	1763.3
30°	4152.5	3272.9	2419.5	2092.8	1937.0	1841.9	1790.9	1766.1	1738.5	1715.0	1712.3
32.5°	4295.9	3268.8	2309.2	1977.0	1835.0	1767.5	1746.7	1727.5	1698.5	1665.4	1657.1
35°	4435.1	3241.2	2178.3	1850.2	1749.5	1723.3	1728.9	1701.2	1648.8	1607.5	1600.6
37.5°	4586.7	3191.6	2034.9	1746.7	1677.8	1702.6	1716.4	1655.7	1570.3	1505.5	1490.3
40°	4761.9	3135.1	1886.0	1643.4	1621.3	1683.4	1683.4	1571.6	1454.5	1414.5	1403.4
42.5°	4967.3	3088.2	1761.9	1556.5	1574.5	1636.5	1629.6	1460.0	1411.7	1391.1	1385.5
45°	5292.6	3071.6	1633.7	1480.7	1535.9	1581.3	1524.8	1421.4	1393.8	1377.3	1371.7
47.5°	5806.9	3091.0	1520.7	1424.1	1491.7	1526.1	1407.6	1395.2	1375.9	1352.5	1349.7
50°	6283.9	3073.0	1440.7	1392.4	1453.1	1460.0	1359.4	1363.5	1352.5	1326.2	1320.8
52.5°	6674.1	3016.5	1389.7	1375.9	1420.0	1344.2	1313.9	1329.0	1324.9	1291.8	1286.3
55°	7102.8	2982.1	1364.8	1375.9	1398.0	1243.6	1271.1	1293.2	1287.6	1264.2	1262.8
57.5°	7622.6	2988.9	1346.9	1380.0	1375.9	1192.5	1228.4	1254.6	1253.2	1246.3	1246.3
60°	8154.7	2991.7	1319.4	1378.6	1349.7	1152.6	1184.3	1221.5	1224.2	1228.4	1228.4
62.5°	8331.2	2871.7	1265.6	1353.8	1291.8	1114.0	1142.9	1193.9	1191.2	1202.2	1203.5
65°	8001.7	2539.5	1185.6	1297.3	1217.3	1086.4	1111.2	1158.1	1142.9	1171.8	1177.4
67.5°	7283.4	2101.1	1061.6	1195.3	1134.6	1057.4	1090.5	1108.4	1080.9	1137.4	1138.8
70°	6294.9	1640.6	904.4	1050.6	1040.9	1027.1	1074.0	1046.4	1007.8	1076.7	1062.9
72.5°	5263.7	1253.2	722.4	858.9	915.4	981.6	1045.0	966.5	912.7	933.3	908.5
75°	3954.0	926.4	580.4	672.8	762.4	916.8	1018.8	869.9	787.2	767.9	762.4
77.5°	2015.6	605.3	434.3	503.2	572.1	828.6	983.0	756.8	652.1	621.8	608.0
80°	719.7	376.4	306.1	347.4	386.0	712.8	858.9	625.9	506.0	500.4	506.0
82.5°	333.6	242.7	205.4	227.5	228.9	475.7	654.8	467.4	384.6	584.5	493.5
85°	143.4	121.3	115.8	113.1	104.8	212.3	368.1	251.0	391.5	175.1	161.3
87.5°	42.8	48.2	42.8	31.7	23.4	23.4	37.2	13.8	9.6	6.9	6.9
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)