

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: P648337

Luminaire Tested: **GALN-SA3B-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648337  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-835-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11687.1 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

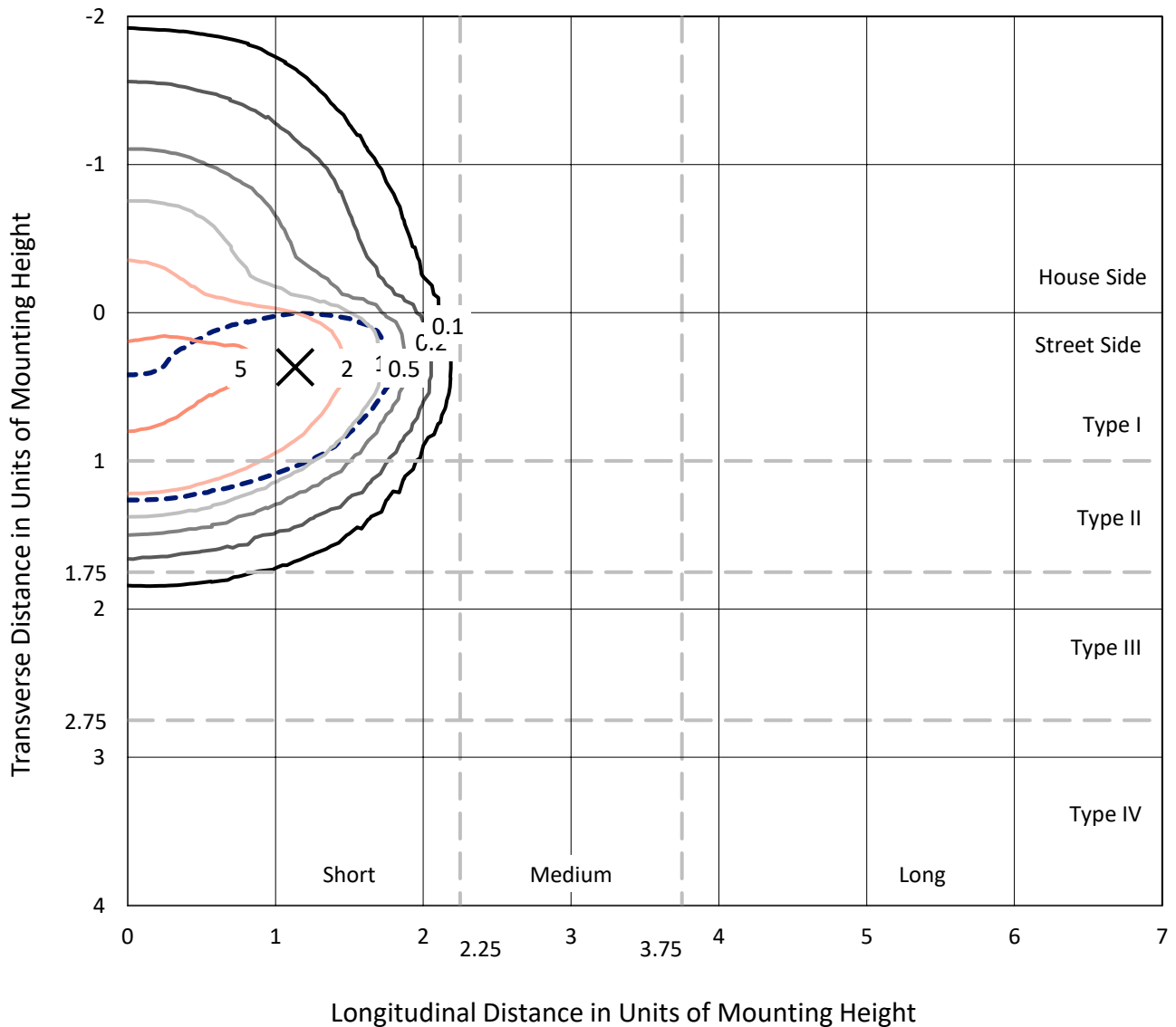
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

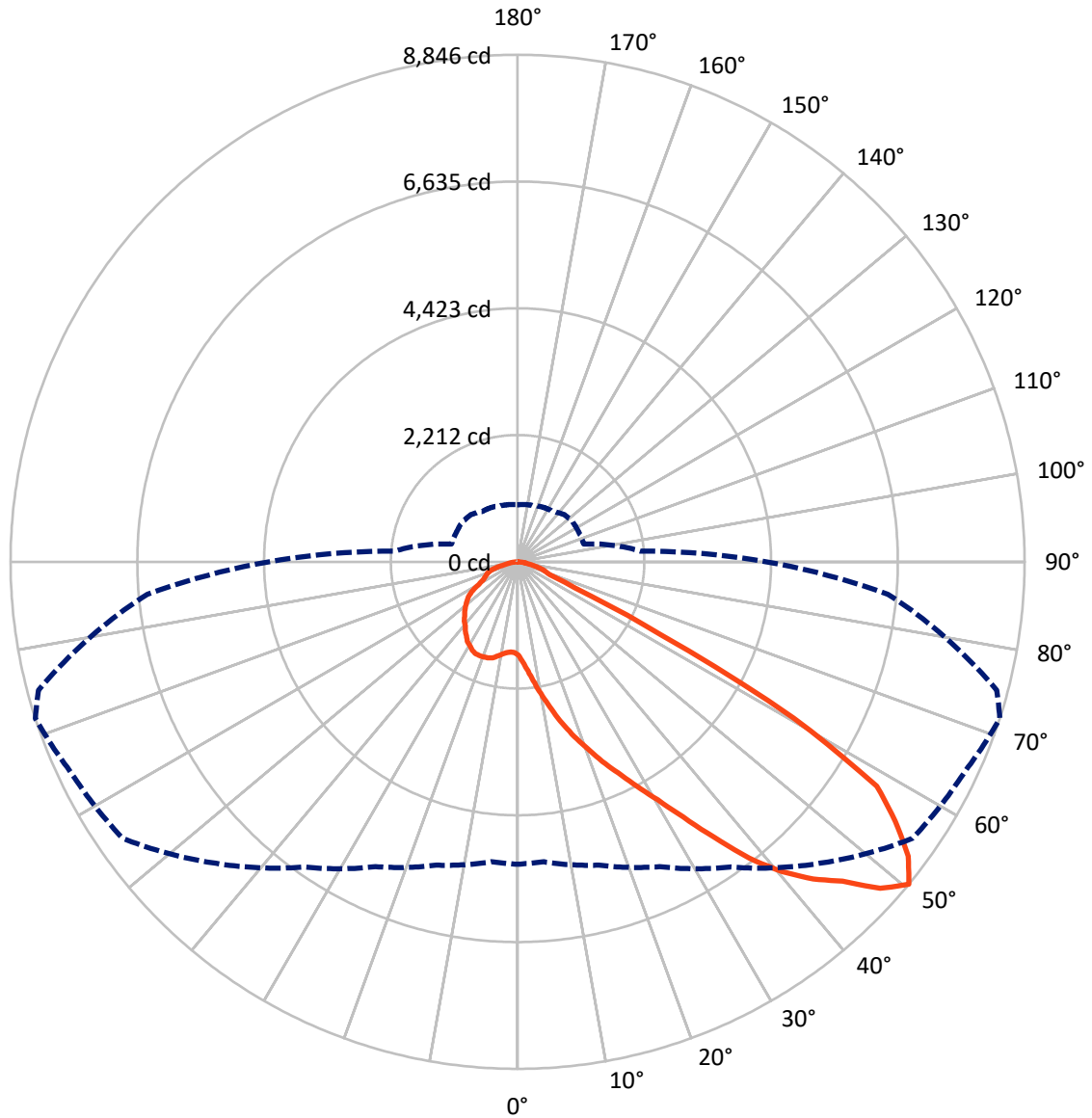
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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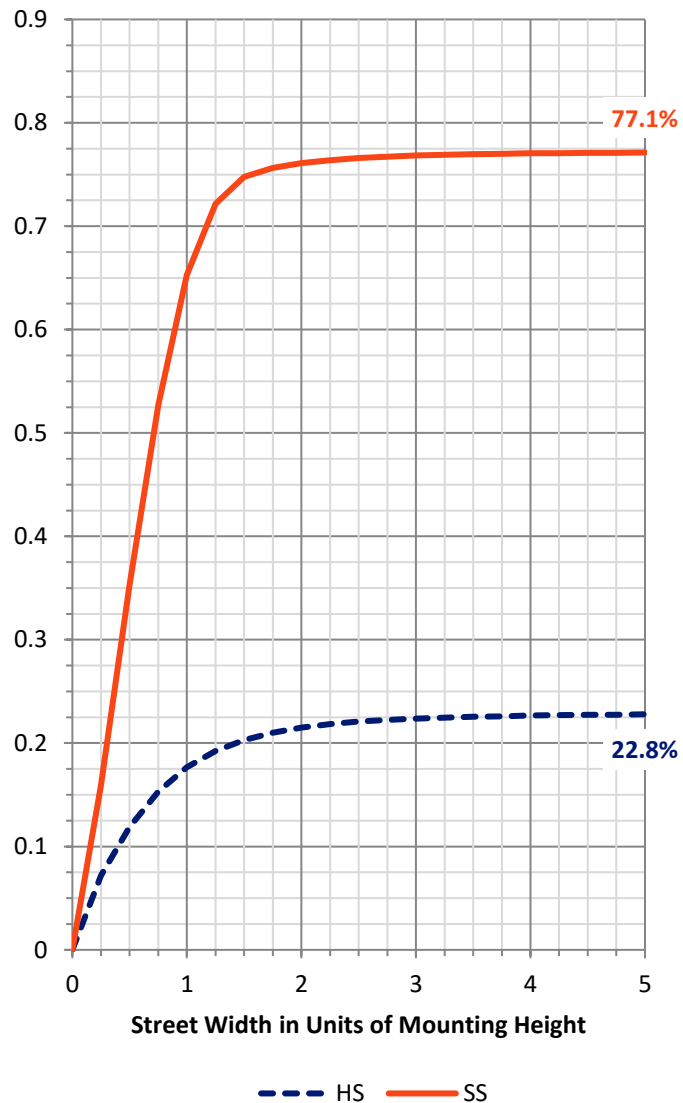
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2677.6	0.0	2677.6
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	9009.5	0.0	9009.5
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	11687.1	0.0	11687.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.4	1.6
10°-20°	715.4	6.1
20°-30°	1387.1	11.9
30°-40°	2298.0	19.7
40°-50°	3215.4	27.5
50°-60°	2712.6	23.2
60°-70°	826.8	7.1
70°-80°	290.1	2.5
80°-90°	50.4	0.4
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°	11687.1	100.0
0°-180°	11687.1	100.0

**Coefficient of Utilization**



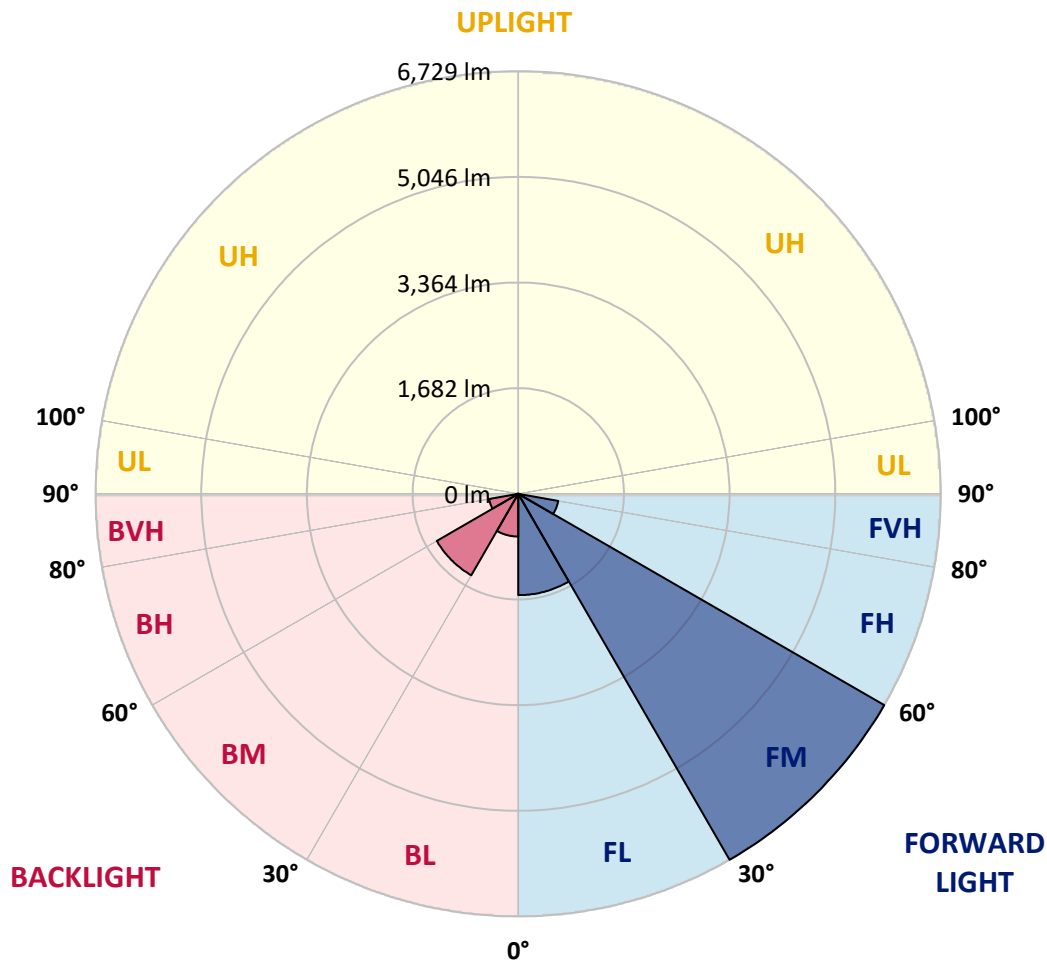
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1613.2	13.8			
FM (30°-60°)	6728.5	57.6			
FH (60°-80°)	645.1	5.5			G0/660
FVH (80°-90°)	22.6	0.2			G1/100
BL (0°-30°)	680.6	5.8	B2/1000		
BM (30°-60°)	1497.3	12.8	B2/2500		
BH (60°-80°)	471.7	4.0	B1/500		G1/500
BVH (80°-90°)	27.8	0.2			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°	72°	75°	85°
0°	1626.9	1626.9	1626.9	1626.9	1626.9	1626.9	1626.9	1626.9	1626.9	1626.9	1626.9
2.5°	2092.6	2079.6	2040.6	2027.5	1981.2	1897.4	1868.5	1783.1	1747.0	1713.7	1674.7
5°	2646.5	2585.8	2581.4	2507.6	2400.6	2338.4	2153.3	2029.0	1914.7	1856.9	1749.8
7.5°	2999.4	3000.8	3000.8	2940.1	2854.7	2697.1	2530.8	2306.6	2134.5	2049.2	1867.0
10°	3334.9	3305.9	3290.0	3284.2	3226.4	3073.1	2895.2	2617.6	2381.8	2282.1	1955.2
12.5°	3572.0	3547.5	3583.6	3564.8	3522.9	3423.0	3255.3	2938.6	2643.6	2509.1	2097.0
15°	3684.8	3702.2	3731.1	3783.1	3764.4	3726.8	3541.7	3268.3	2925.6	2773.8	2222.8
17.5°	3858.4	3810.6	3845.4	3910.5	3962.5	3945.1	3839.6	3507.0	3204.7	3018.2	2392.0
20°	3979.8	3952.3	3969.7	4044.9	4084.0	4182.3	4127.3	3819.3	3472.2	3275.6	2591.5
22.5°	4326.9	4286.5	4230.0	4241.6	4256.1	4325.4	4338.5	4162.0	3783.1	3574.9	2781.0
25°	4755.0	4717.4	4650.9	4582.9	4540.9	4527.9	4572.8	4431.1	4081.1	3865.6	2984.9
27.5°	5226.4	5162.8	5120.9	4980.6	4867.8	4850.5	4828.8	4752.1	4434.0	4201.1	3214.8
30°	5684.9	5634.2	5577.9	5353.7	5236.5	5217.8	5110.7	5132.4	4817.2	4558.3	3475.1
32.5°	6032.0	6036.3	5907.6	5738.4	5628.5	5528.7	5489.6	5551.9	5308.9	5100.6	3765.8
35°	6312.5	6325.5	6202.6	6049.3	5930.8	6000.1	5982.8	6011.7	5896.0	5641.5	4104.3
37.5°	6585.8	6520.7	6389.2	6315.4	6253.2	6367.5	6515.0	6539.5	6561.2	6261.9	4497.6
40°	6630.7	6636.5	6559.8	6611.9	6533.8	6705.8	7048.6	7016.8	7105.0	6843.3	4924.2
42.5°	6567.0	6580.1	6610.4	6684.2	6872.2	7079.0	7588.1	7457.9	7564.9	7332.1	5339.3
45°	6463.0	6409.4	6447.0	6727.5	7053.0	7512.8	8081.2	7979.9	7945.3	7750.0	5833.8
47.5°	5965.4	6020.4	6137.5	6483.2	6972.0	7588.1	8431.2	8408.0	8512.1	8374.7	6283.6
50°	5275.6	5253.9	5479.5	5868.6	6499.1	7440.5	8412.3	8622.1	8846.2	8655.3	6484.6
52.5°	3950.9	4066.6	4260.4	4743.4	5642.9	6636.5	8001.6	8351.6	8533.8	8493.4	6322.6
55°	2497.5	2532.2	2649.4	3223.5	4033.4	5326.2	6859.2	7670.5	7995.8	8147.7	6173.7
57.5°	1213.3	1148.3	1291.4	1752.7	2329.7	3582.1	5290.1	6681.3	7388.5	7663.2	5849.7
60°	633.4	658.0	714.4	879.2	1204.6	1859.8	3297.3	4452.8	5533.1	5955.3	4434.0
62.5°	524.9	533.6	571.2	653.6	801.2	1070.1	1683.4	2170.7	2821.5	3201.8	2522.1
65°	445.4	449.8	490.2	545.2	639.2	753.5	866.2	906.7	1097.6	1126.6	896.6
67.5°	371.7	376.0	419.4	471.4	532.2	562.6	591.5	588.6	610.3	601.6	600.2
70°	286.3	290.6	335.5	390.5	420.9	403.5	493.1	513.4	522.1	529.3	540.9
72.5°	206.8	215.5	250.2	289.2	273.3	313.8	406.4	436.8	448.3	452.7	467.1
75°	150.4	153.3	162.0	150.4	173.5	218.4	286.3	323.9	338.4	342.7	364.4
77.5°	66.6	68.0	69.5	86.8	111.3	135.9	170.6	201.0	221.3	227.1	232.9
80°	34.7	36.2	44.9	59.3	79.6	99.8	124.3	141.7	154.7	156.2	162.0
82.5°	21.7	23.2	31.8	42.0	56.4	73.8	91.1	105.5	115.7	117.1	118.6
85°	10.1	13.0	18.8	26.0	37.6	47.7	49.2	42.0	44.9	46.3	43.4
87.5°	2.9	4.3	5.8	4.3	5.8	5.8	7.2	8.7	8.7	8.7	10.1
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°	1626.9	1626.9	1626.9	1626.9	1626.9	1626.9	1626.9	1626.9	1626.9	1626.9	1626.9
2.5°	1653.0	1639.9	1589.3	1570.5	1521.4	1530.1	1504.0	1502.6	1496.8	1495.4	1493.9
5°	1693.5	1653.0	1592.2	1546.0	1518.5	1515.6	1496.8	1496.8	1502.6	1506.9	1496.8
7.5°	1759.9	1713.7	1611.0	1567.6	1543.1	1538.8	1525.7	1515.6	1528.6	1524.3	1512.7
10°	1836.6	1755.6	1647.2	1609.6	1569.1	1559.0	1559.0	1563.3	1541.6	1548.9	1537.3
12.5°	1922.0	1813.5	1693.5	1650.1	1602.3	1596.5	1593.6	1561.9	1573.4	1567.6	1538.8
15°	2030.4	1880.0	1752.7	1679.0	1638.5	1612.5	1574.8	1569.1	1561.9	1547.4	1534.4
17.5°	2147.5	1952.3	1780.2	1687.7	1626.9	1608.1	1579.2	1548.9	1527.2	1530.1	1520.0
20°	2247.4	2018.9	1790.3	1696.4	1618.2	1582.1	1537.3	1518.5	1495.4	1493.9	1492.5
22.5°	2365.9	2108.5	1804.8	1673.2	1592.2	1554.6	1524.3	1491.0	1475.1	1454.8	1465.0
25°	2507.6	2143.2	1807.7	1660.2	1573.4	1506.9	1491.0	1454.8	1449.1	1420.1	1425.9
27.5°	2610.4	2162.0	1784.5	1619.7	1530.1	1479.4	1450.5	1424.5	1414.3	1392.6	1386.8
30°	2747.7	2190.9	1735.4	1569.1	1486.7	1430.2	1412.9	1407.1	1378.2	1355.1	1352.2
32.5°	2903.9	2209.8	1703.6	1517.1	1441.8	1398.4	1407.1	1379.6	1343.5	1323.3	1317.5
35°	3028.3	2217.0	1624.0	1457.7	1411.4	1384.0	1373.9	1368.1	1316.0	1297.2	1282.8
37.5°	3217.7	2201.1	1557.5	1415.8	1378.2	1368.1	1359.4	1320.4	1261.0	1233.6	1213.3
40°	3439.0	2196.7	1472.2	1356.5	1346.4	1358.0	1331.9	1271.2	1188.8	1158.4	1143.9
42.5°	3651.6	2227.1	1418.7	1324.7	1311.7	1316.0	1279.9	1188.8	1148.3	1130.9	1107.8
45°	4007.3	2290.7	1330.5	1275.5	1269.7	1266.8	1223.4	1128.0	1104.9	1083.2	1078.8
47.5°	4328.3	2248.8	1274.1	1224.9	1230.7	1214.7	1122.2	1091.9	1065.8	1044.1	1036.9
50°	4347.2	2149.0	1194.5	1185.9	1187.3	1159.9	1071.6	1051.3	1018.1	1003.6	993.5
52.5°	4248.9	1985.6	1120.8	1123.7	1128.0	1083.2	1009.4	995.0	967.5	947.3	941.5
55°	3972.6	1731.1	1048.4	1060.0	1071.6	986.3	963.2	927.0	905.3	876.4	877.8
57.5°	3499.7	1394.1	947.3	966.1	990.7	896.6	879.2	834.4	802.7	779.5	776.6
60°	2345.7	992.1	795.4	802.7	857.5	820.0	818.5	773.7	730.3	710.1	698.5
62.5°	1384.0	757.8	686.9	679.7	678.2	699.9	736.1	720.2	663.8	624.8	636.3
65°	724.5	655.1	639.2	614.7	600.2	594.4	621.9	629.1	591.5	549.5	546.6
67.5°	608.9	608.9	595.8	587.2	566.9	542.3	524.9	501.8	496.0	484.4	470.0
70°	553.9	568.4	564.0	543.8	526.4	498.9	454.1	416.5	380.3	367.3	376.0
72.5°	483.0	497.5	497.5	487.3	464.2	422.3	378.9	335.5	305.1	282.0	279.1
75°	371.7	378.9	396.3	384.7	354.3	328.3	283.4	238.6	209.7	188.0	183.7
77.5°	237.2	248.8	248.8	247.3	225.6	201.0	172.1	140.3	118.6	102.7	98.3
80°	157.6	164.9	170.6	164.9	150.4	131.6	109.9	88.2	72.3	59.3	56.4
82.5°	115.7	124.3	128.7	122.9	108.4	94.0	78.1	62.2	46.3	36.2	33.3
85°	44.9	46.3	52.1	62.2	60.8	59.3	47.7	34.7	26.0	18.8	17.4
87.5°	11.6	10.1	11.6	11.6	10.1	8.7	8.7	8.7	8.7	4.3	5.8
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)