

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: P651752

Luminaire Tested: **GALN-SA2A-840-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651752  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-840-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6594.2 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

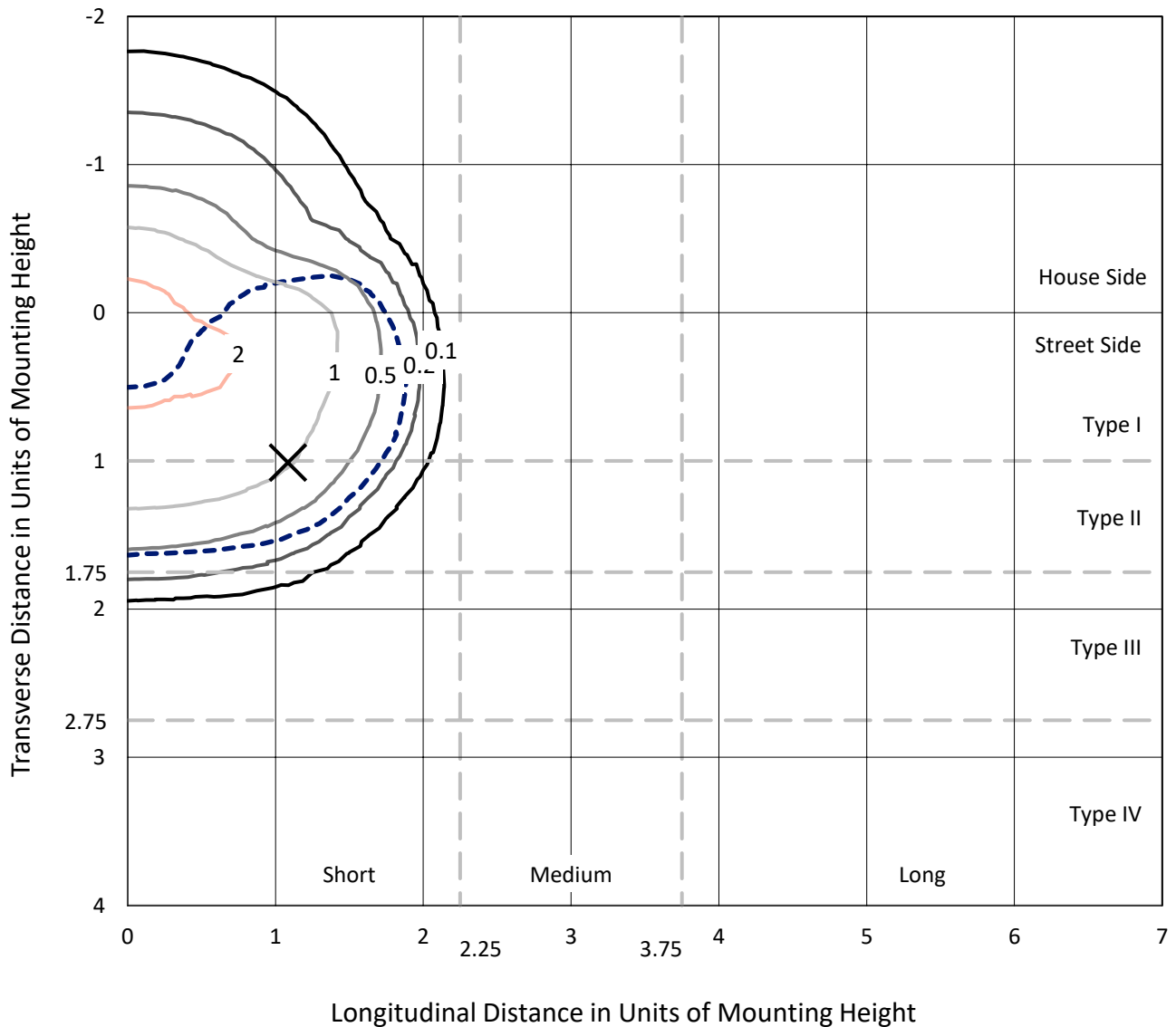
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

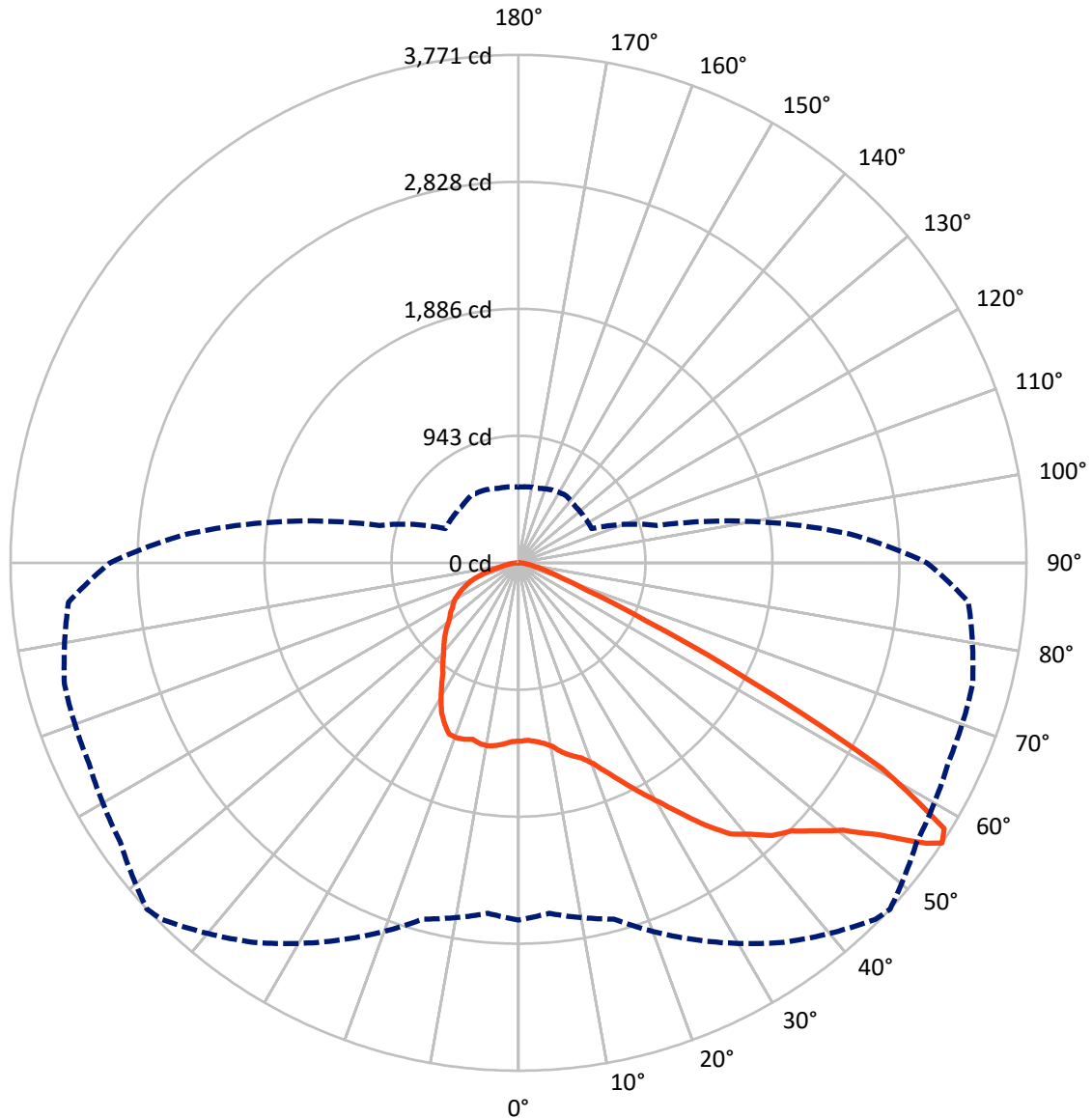
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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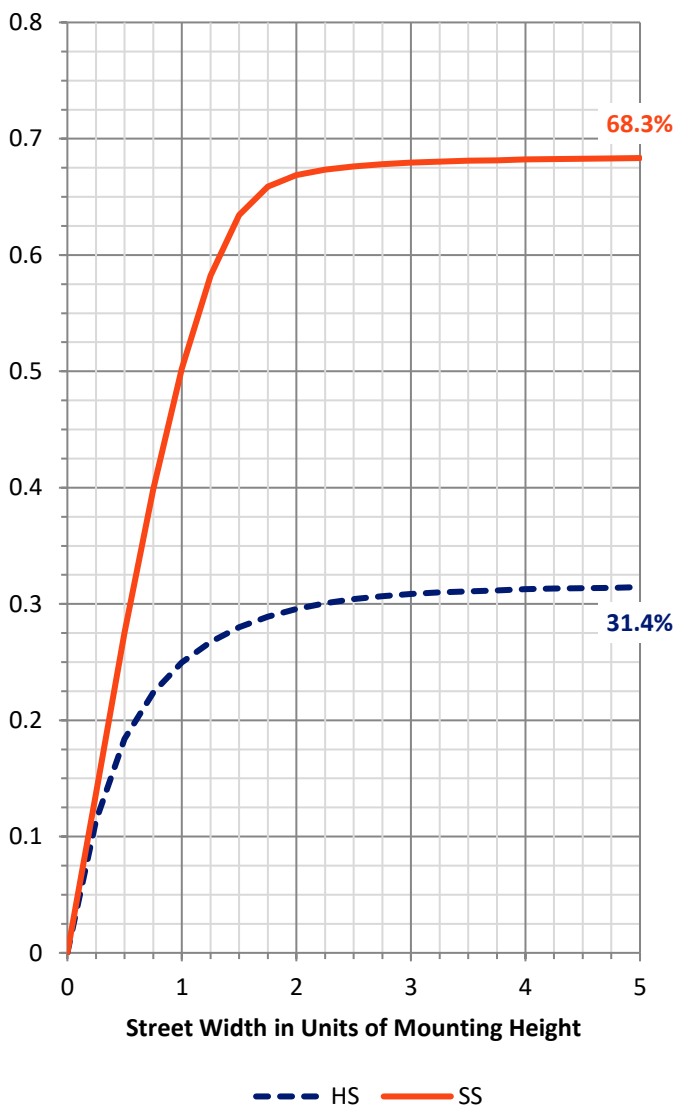
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2089.6	0.0	2089.6
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	4504.6	0.0	4504.6
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	6594.2	0.0	6594.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.1	2.0
10°-20°	407.1	6.2
20°-30°	719.7	10.9
30°-40°	1081.0	16.4
40°-50°	1483.5	22.5
50°-60°	1767.4	26.8
60°-70°	756.3	11.5
70°-80°	214.0	3.2
80°-90°	36.0	0.5
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°	6594.2	100.0
0°-180°	6594.2	100.0

**Coefficient of Utilization**

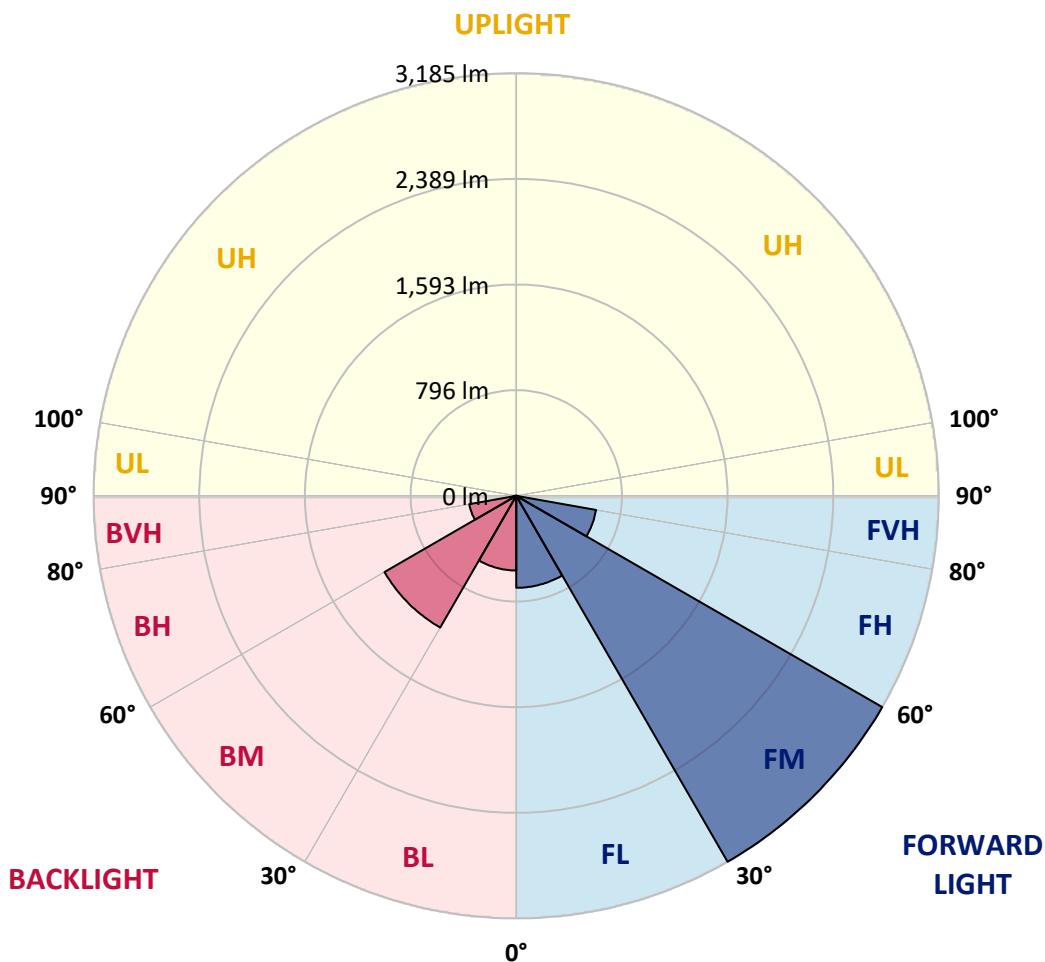


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	693.3	10.5			
FM (30°-60°)	3185.2	48.3			
FH (60°-80°)	610.9	9.3			G0/660
FVH (80°-90°)	15.3	0.2			G1/100
BL (0°-30°)	562.6	8.5	B2/1000		
BM (30°-60°)	1146.7	17.4	B2/2500		
BH (60°-80°)	359.5	5.5	B1/500		G1/500
BVH (80°-90°)	20.7	0.3			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°	47°	55°	65°	75°	85°
0°	1324.6	1324.6	1324.6	1324.6	1324.6	1324.6	1324.6	1324.6	1324.6	1324.6	1324.6
2.5°	1319.5	1317.0	1315.3	1328.8	1323.7	1324.6	1319.5	1324.6	1327.9	1320.4	1331.3
5°	1317.0	1324.6	1317.8	1322.1	1333.0	1329.6	1333.0	1343.1	1340.6	1338.0	1334.7
7.5°	1340.6	1341.4	1346.4	1348.1	1351.5	1348.1	1353.2	1362.4	1359.9	1345.6	1347.3
10°	1374.2	1375.9	1376.7	1386.0	1391.9	1392.7	1386.8	1378.4	1377.6	1396.9	1383.4
12.5°	1412.9	1408.7	1418.8	1422.1	1428.9	1436.4	1444.0	1426.3	1437.3	1438.1	1422.1
15°	1469.2	1473.4	1461.7	1461.7	1464.2	1465.0	1486.0	1477.6	1476.0	1466.7	1473.4
17.5°	1553.3	1524.7	1523.9	1512.1	1510.4	1517.2	1524.7	1531.5	1554.2	1535.7	1499.5
20°	1614.7	1621.4	1597.1	1582.8	1585.3	1600.4	1592.9	1623.1	1639.1	1608.8	1573.5
22.5°	1723.2	1700.5	1706.4	1674.4	1677.0	1692.9	1692.1	1723.2	1732.5	1684.5	1633.2
25°	1796.4	1790.5	1795.5	1770.3	1773.7	1786.3	1806.5	1857.8	1842.6	1789.6	1671.1
27.5°	1903.2	1891.4	1887.2	1878.0	1874.6	1908.2	1931.8	1986.4	1975.5	1898.1	1738.3
30°	2012.5	2004.9	2009.1	1971.3	1984.8	2056.2	2063.0	2137.8	2132.8	1996.5	1813.2
32.5°	2088.2	2092.4	2100.0	2079.0	2138.7	2195.9	2218.6	2303.5	2307.7	2165.6	1957.8
35°	2210.1	2195.9	2200.1	2224.4	2252.2	2356.5	2393.5	2449.8	2485.2	2343.0	2096.6
37.5°	2286.7	2301.8	2284.2	2322.8	2395.2	2520.5	2554.1	2612.1	2649.2	2518.0	2285.8
40°	2406.1	2381.7	2394.3	2422.1	2496.1	2659.2	2650.0	2709.7	2721.5	2666.8	2462.4
42.5°	2534.8	2523.0	2505.3	2568.4	2630.6	2749.2	2767.7	2740.0	2799.7	2812.3	2714.7
45°	2688.7	2703.0	2705.5	2707.2	2761.8	2865.3	2840.1	2815.7	2884.6	2976.3	2871.2
47.5°	2831.6	2786.2	2819.0	2864.4	2941.8	2942.7	2972.1	2914.1	2987.2	3068.8	3012.5
50°	2879.6	2857.7	2901.4	2987.2	3106.7	3119.3	3122.6	3040.2	3078.1	3142.8	3061.2
52.5°	2861.1	2853.5	2965.4	3098.2	3273.2	3337.1	3353.9	3252.1	3273.2	3243.7	3168.9
55°	2772.8	2795.5	2908.2	3179.0	3447.3	3645.0	3676.9	3548.3	3414.5	3437.2	3354.7
56°	2651.7	2612.1	2738.3	3087.3	3439.7	3745.1	3771.1	3610.5	3519.6	3490.2	3353.1
57.5°	2249.7	2198.4	2364.1	2777.8	3248.8	3707.2	3726.6	3636.6	3501.9	3442.2	3108.3
60°	1317.0	1342.2	1552.5	1915.8	2506.2	3039.4	3104.1	3169.7	3079.7	2812.3	2313.6
62.5°	635.8	619.8	770.4	1098.3	1527.3	1940.2	1920.8	2105.0	2205.9	1998.2	1460.8
65°	333.0	331.4	420.5	599.6	839.3	1019.3	1037.0	1136.2	1275.0	1029.4	741.8
67.5°	244.7	251.5	296.0	421.3	539.9	550.9	548.3	598.0	611.4	517.2	455.8
70°	191.7	195.1	227.9	320.4	402.0	359.9	352.4	358.3	397.8	414.6	394.4
72.5°	138.8	142.1	169.9	216.1	251.5	245.6	250.6	283.4	332.2	349.9	328.8
75°	92.5	95.0	110.2	132.0	148.9	160.6	169.9	207.7	253.1	263.2	253.1
77.5°	63.9	66.4	76.5	93.4	95.0	102.6	106.0	123.6	151.4	164.0	157.3
80°	36.2	36.2	41.2	47.9	58.9	69.0	70.6	84.9	97.6	106.0	107.6
82.5°	16.8	17.7	21.9	29.4	38.7	47.9	49.6	58.9	68.1	76.5	79.1
85°	8.4	9.3	12.6	17.7	23.5	28.6	27.8	28.6	30.3	28.6	29.4
87.5°	2.5	2.5	3.4	4.2	3.4	4.2	4.2	5.0	5.9	6.7	7.6
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°	1324.6	1324.6	1324.6	1324.6	1324.6	1324.6	1324.6	1324.6	1324.6	1324.6	1324.6
2.5°	1332.1	1334.7	1317.8	1333.8	1327.9	1327.1	1338.9	1337.2	1341.4	1339.7	1329.6
5°	1333.0	1327.1	1344.8	1328.8	1336.3	1352.3	1341.4	1366.6	1354.0	1362.4	1343.9
7.5°	1359.1	1360.7	1357.4	1364.1	1360.7	1368.3	1362.4	1368.3	1358.2	1359.1	1375.9
10°	1381.8	1376.7	1382.6	1374.2	1380.1	1377.6	1364.1	1359.9	1363.3	1359.1	1370.0
12.5°	1423.8	1414.6	1410.4	1400.3	1393.5	1368.3	1347.3	1335.5	1351.5	1354.0	1349.0
15°	1466.7	1467.5	1448.2	1425.5	1383.4	1345.6	1350.6	1354.9	1354.9	1361.6	1349.0
17.5°	1493.6	1493.6	1476.0	1430.5	1387.6	1365.8	1360.7	1347.3	1335.5	1333.8	1333.0
20°	1540.7	1526.4	1486.0	1429.7	1386.0	1375.9	1338.0	1306.1	1281.7	1273.3	1272.4
22.5°	1594.5	1558.4	1502.0	1431.4	1383.4	1369.1	1298.5	1250.6	1206.8	1188.3	1190.9
25°	1644.2	1586.1	1511.3	1423.8	1374.2	1305.2	1226.2	1159.7	1114.3	1099.2	1091.6
27.5°	1678.6	1615.6	1511.3	1430.5	1339.7	1233.7	1153.0	1068.1	1028.5	1018.5	1020.1
30°	1724.9	1652.6	1537.3	1416.2	1270.8	1141.2	1044.5	989.0	965.5	957.1	962.9
32.5°	1833.4	1749.3	1573.5	1381.8	1189.2	1048.7	970.5	939.4	904.9	888.1	882.2
35°	1951.1	1840.9	1608.8	1323.7	1097.5	964.6	915.8	887.3	846.0	827.5	830.9
37.5°	2117.6	1958.7	1611.4	1227.9	998.3	917.5	873.0	828.4	794.7	766.2	757.7
40°	2342.2	2119.3	1605.5	1126.9	918.4	862.0	829.2	773.7	735.9	715.7	719.9
42.5°	2539.8	2307.7	1581.1	1012.6	846.0	824.2	787.2	732.5	695.5	674.5	672.8
45°	2706.3	2446.5	1534.8	915.0	785.5	782.1	739.2	697.2	667.8	648.4	656.8
47.5°	2860.2	2558.3	1465.0	817.5	730.0	736.7	695.5	669.4	650.9	633.3	632.4
50°	2915.7	2556.6	1403.6	736.7	685.4	682.1	680.4	652.6	633.3	618.1	624.9
52.5°	3008.3	2585.2	1337.2	681.2	645.0	645.9	651.8	631.6	609.7	600.5	608.9
55°	3141.1	2589.4	1190.9	616.5	611.4	617.3	617.3	603.8	585.3	577.8	573.6
56°	3032.6	2464.1	1068.1	599.6	594.6	594.6	610.6	595.4	572.7	566.8	561.8
57.5°	2797.2	2158.8	894.0	579.4	571.9	583.7	592.1	576.1	555.1	546.6	551.7
60°	1929.3	1460.8	672.0	535.7	535.7	555.1	561.8	538.2	529.0	528.1	521.4
62.5°	1126.1	851.1	525.6	496.2	497.9	513.9	518.9	505.4	493.7	508.0	514.7
65°	597.1	508.0	450.8	454.1	455.0	467.6	489.5	488.6	487.8	492.0	492.8
67.5°	432.3	422.2	409.6	406.2	407.9	417.1	439.0	455.8	455.0	444.9	437.3
70°	385.2	370.9	363.3	364.2	357.4	368.4	386.0	397.0	377.6	365.8	360.8
72.5°	320.4	316.2	311.2	312.0	298.6	296.0	275.8	275.8	270.8	267.4	273.3
75°	244.7	243.0	245.6	241.4	227.1	211.9	200.2	189.2	172.4	165.7	162.3
77.5°	154.7	159.8	165.7	156.4	150.5	139.6	127.8	116.9	103.4	95.9	95.9
80°	105.1	109.3	113.5	111.9	105.1	95.0	85.8	74.0	64.8	58.9	58.0
82.5°	79.9	83.3	89.1	82.4	75.7	67.3	59.7	51.3	42.9	36.2	36.2
85°	28.6	32.8	36.2	39.5	42.0	42.9	37.0	30.3	24.4	19.3	18.5
87.5°	7.6	8.4	9.3	8.4	8.4	8.4	9.3	8.4	7.6	5.9	5.9
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)