

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: P647797

Luminaire Tested: **GALN-SA2A-835-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647797  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-835-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7368.8 lumens  
Efficiency: N/A  
Efficacy: 117.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

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

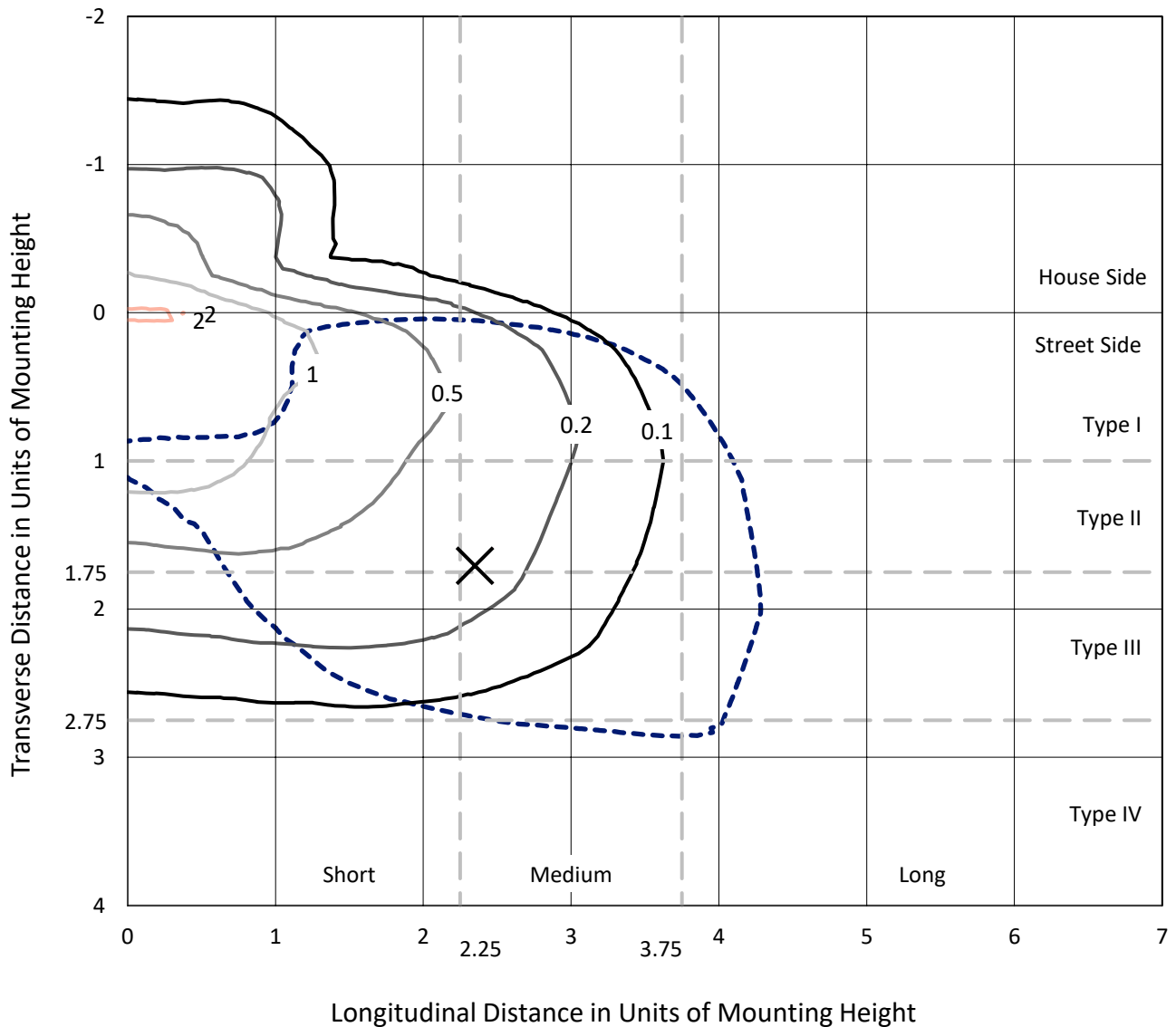




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### Iso-Footcandle Lines of Horizontal Illumination

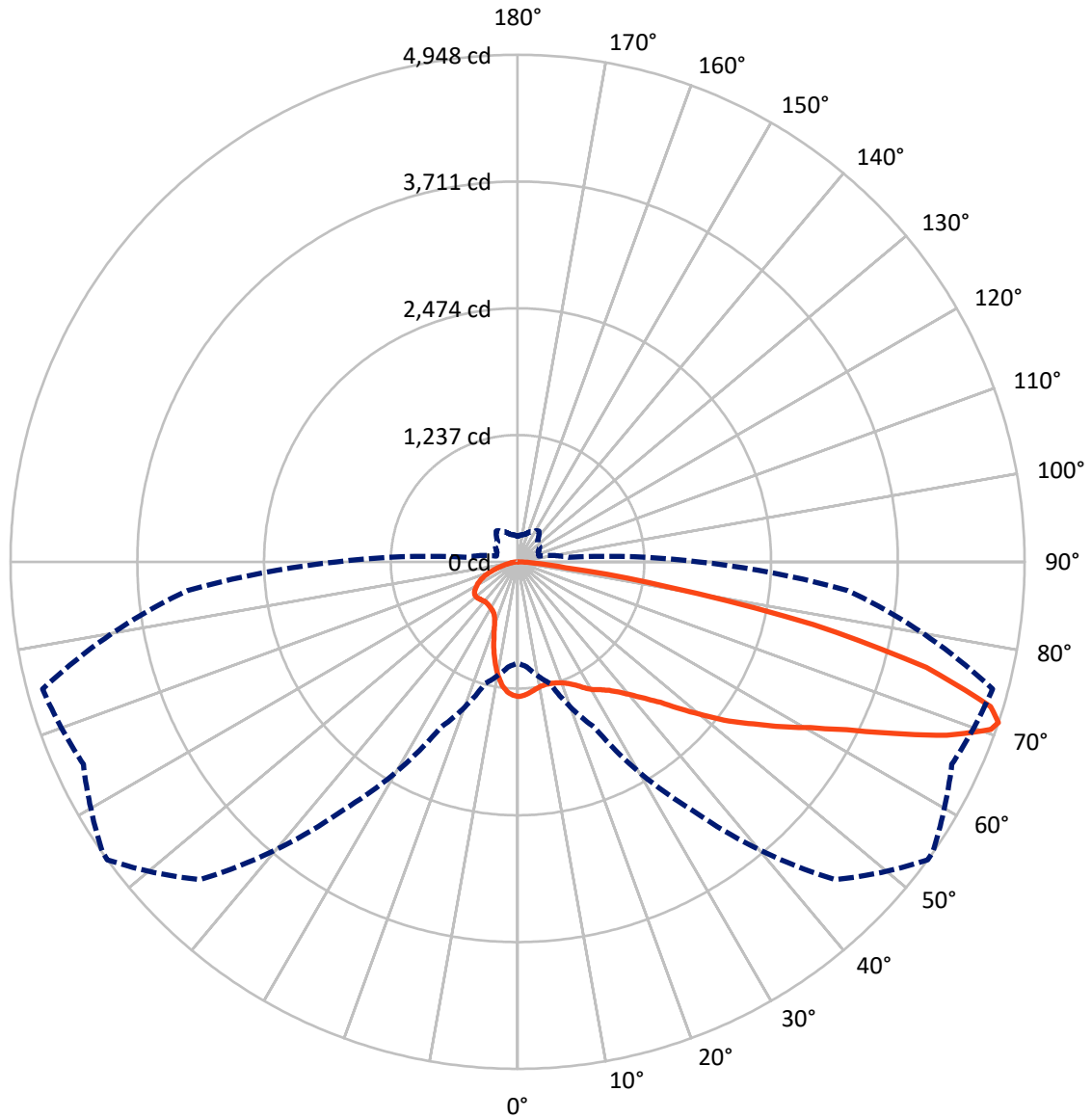
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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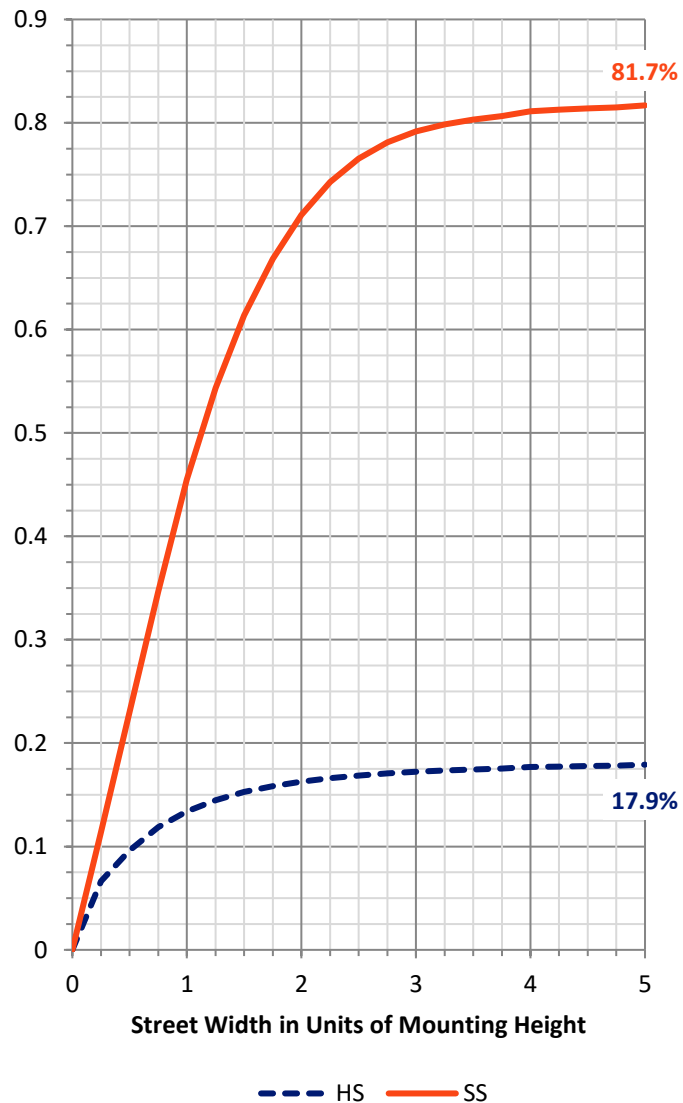
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1330.4	0.0	1330.4
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	6038.4	0.0	6038.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	7368.8	0.0	7368.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.2	1.6
10°-20°	309.4	4.2
20°-30°	515.1	7.0
30°-40°	761.7	10.3
40°-50°	1072.8	14.6
50°-60°	1436.6	19.5
60°-70°	1810.7	24.6
70°-80°	1236.7	16.8
80°-90°	108.8	1.5
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°	7368.8	100.0
0°-180°	7368.8	100.0

**Coefficient of Utilization**

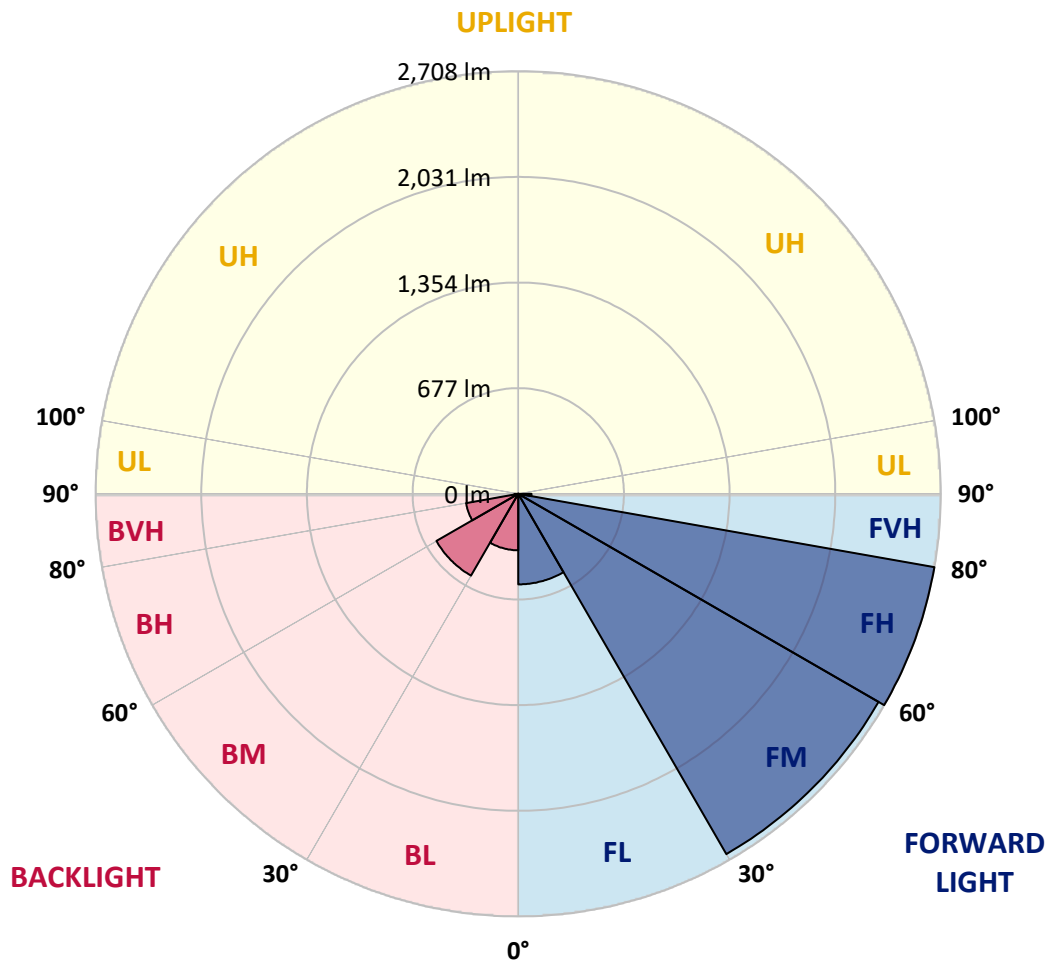


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	580.0	7.9			
FM (30°-60°)	2665.8	36.2			
FH (60°-80°)	2707.6	36.7			G2/5000
FVH (80°-90°)	85.0	1.2			G1/100
BL (0°-30°)	361.6	4.9	B1/500		
BM (30°-60°)	605.3	8.2	B1/1000		
BH (60°-80°)	339.8	4.6	B1/500		G1/500
BVH (80°-90°)	23.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1314.7	1314.7	1314.7	1314.7	1314.7	1314.7	1314.7	1314.7	1314.7	1314.7	1314.7
2.5°	1270.1	1276.1	1277.7	1281.7	1290.0	1296.8	1303.5	1302.8	1312.3	1316.3	1319.9
5°	1213.6	1215.2	1221.2	1229.2	1243.9	1262.6	1280.9	1281.3	1304.8	1323.4	1332.6
7.5°	1172.2	1177.4	1181.4	1189.7	1205.3	1225.6	1254.6	1257.0	1298.8	1335.8	1355.3
10°	1145.1	1151.1	1155.5	1165.8	1181.4	1204.0	1235.5	1239.9	1294.4	1355.3	1389.5
12.5°	1120.5	1126.4	1130.4	1144.0	1164.2	1192.1	1227.5	1232.7	1296.0	1378.0	1426.9
15°	1135.6	1140.4	1138.8	1142.8	1156.3	1188.1	1230.7	1235.9	1302.0	1399.8	1464.0
17.5°	1202.8	1206.8	1193.7	1178.6	1172.2	1195.7	1240.7	1246.2	1313.9	1422.6	1501.8
20°	1302.0	1312.7	1284.0	1250.2	1219.6	1222.7	1261.3	1267.4	1330.6	1445.3	1540.4
22.5°	1430.9	1438.9	1403.8	1348.2	1291.6	1262.6	1292.4	1296.0	1355.7	1474.7	1582.6
25°	1582.6	1587.4	1538.8	1467.2	1385.5	1330.6	1335.0	1341.4	1397.1	1508.1	1620.0
27.5°	1729.9	1745.0	1688.9	1601.3	1493.8	1402.3	1393.5	1397.5	1442.1	1526.9	1645.9
30°	1904.6	1903.4	1844.1	1742.6	1604.8	1480.3	1448.9	1448.1	1466.3	1536.0	1664.6
32.5°	2043.9	2060.2	2002.1	1891.5	1731.8	1561.1	1487.1	1485.4	1485.0	1551.9	1692.5
35°	2202.3	2204.7	2151.4	2039.9	1869.2	1662.6	1540.4	1532.4	1523.2	1586.2	1730.3
37.5°	2344.0	2355.2	2306.2	2181.2	2004.1	1768.1	1613.6	1608.4	1580.6	1645.5	1790.7
40°	2454.7	2463.0	2433.6	2314.5	2137.0	1881.9	1706.8	1697.2	1663.4	1742.6	1871.5
42.5°	2490.9	2508.0	2519.5	2461.0	2289.9	2016.9	1821.4	1809.4	1783.6	1889.8	1964.7
45°	2493.7	2520.7	2581.6	2584.4	2443.5	2178.5	1955.2	1946.8	1944.8	2078.6	2095.6
47.5°	2472.6	2500.0	2602.4	2657.7	2580.5	2341.6	2148.2	2135.1	2136.3	2311.8	2242.5
50°	2421.7	2454.3	2578.5	2704.6	2687.5	2511.2	2352.0	2347.6	2372.3	2578.0	2395.0
52.5°	2325.7	2365.1	2553.8	2734.1	2767.1	2657.3	2583.7	2571.3	2633.8	2867.0	2561.7
55°	2060.2	2119.5	2463.4	2750.4	2842.8	2797.0	2792.2	2814.5	2897.3	3182.3	2745.3
57.5°	1921.7	1966.3	2267.2	2753.2	2938.3	2959.3	3035.8	3041.4	3186.3	3517.0	2952.6
60°	1846.1	1885.5	2159.7	2734.9	3071.6	3160.4	3285.0	3304.9	3468.5	3879.6	3167.5
62.5°	1780.0	1813.8	2095.2	2671.6	3222.0	3458.5	3607.8	3617.3	3788.9	4280.0	3379.7
65°	1624.4	1663.0	1965.5	2608.3	3351.9	3831.1	4036.1	4024.9	4130.0	4625.6	3512.6
67.5°	1414.6	1463.6	1723.1	2389.8	3415.9	4238.3	4518.5	4504.5	4466.7	4852.0	3550.8
70°	1146.7	1173.0	1413.0	2012.1	3160.0	4452.0	4899.4	4884.7	4675.3	4881.8	3370.2
71°	986.7	1027.7	1230.3	1787.2	2947.1	4386.8	4948.3	4944.4	4675.7	4799.5	3234.0
72.5°	770.2	795.3	974.4	1384.7	2504.8	4015.8	4827.4	4842.5	4574.2	4570.6	2953.4
75°	487.2	498.3	611.4	815.2	1374.4	2843.9	4120.9	4161.8	4061.5	3741.1	2196.3
77.5°	283.0	297.3	366.2	480.4	593.8	1543.6	2948.6	2993.3	2822.1	2059.8	899.2
80°	164.8	180.7	241.2	279.0	272.6	572.8	1501.4	1577.4	1221.9	520.2	252.4
82.5°	91.5	102.3	169.6	170.0	145.2	187.1	472.5	494.4	348.7	209.8	103.1
85°	66.5	75.2	109.5	99.1	69.7	80.4	164.4	172.3	140.9	88.4	33.4
87.5°	23.5	33.4	60.1	47.8	19.1	16.8	47.4	38.6	35.9	24.7	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°	1314.7	1314.7	1314.7	1314.7	1314.7	1314.7	1314.7	1314.7	1314.7	1314.7	1314.7
2.5°	1321.9	1322.6	1318.7	1311.5	1304.3	1295.2	1284.8	1276.9	1273.3	1272.9	1272.5
5°	1336.2	1338.2	1323.0	1300.8	1276.1	1245.8	1220.0	1190.6	1183.0	1171.0	1174.6
7.5°	1359.3	1358.1	1328.2	1280.9	1223.1	1159.1	1105.0	1073.5	1040.8	1031.7	1032.1
10°	1392.3	1384.7	1328.2	1240.3	1144.0	1048.8	973.2	925.4	899.6	878.1	870.1
12.5°	1427.3	1408.2	1315.5	1183.3	1042.0	925.4	844.2	779.7	763.0	745.5	745.9
15°	1460.8	1429.0	1290.5	1103.3	932.2	793.6	714.9	676.3	671.1	673.1	672.7
17.5°	1491.1	1443.7	1252.3	1014.2	804.1	680.7	638.8	641.7	655.5	665.6	666.7
20°	1521.7	1452.4	1195.3	894.8	683.0	612.1	613.8	635.6	656.8	670.3	672.3
22.5°	1550.7	1456.4	1128.5	779.3	595.5	583.1	606.6	630.1	650.8	663.9	665.9
25°	1569.8	1447.2	1033.7	658.7	552.5	572.8	597.4	617.3	634.9	648.4	651.6
27.5°	1575.0	1417.8	916.3	561.3	532.6	562.8	585.5	600.2	613.8	626.5	628.9
30°	1572.3	1374.4	787.3	503.9	521.0	551.3	568.8	579.5	595.9	605.8	607.8
32.5°	1567.9	1323.9	652.8	473.2	511.5	540.5	550.8	560.4	560.0	556.1	558.8
35°	1569.4	1263.4	543.7	454.9	503.1	532.6	541.3	529.4	495.2	493.5	492.0
37.5°	1577.8	1203.6	464.5	442.2	498.8	531.3	536.1	481.2	451.0	437.1	433.5
40°	1599.3	1134.0	412.3	432.7	498.3	540.5	512.6	457.0	398.9	371.8	369.8
42.5°	1627.9	1065.5	380.5	426.7	503.1	554.4	503.1	422.7	359.4	343.5	341.2
45°	1670.5	987.1	363.0	423.9	510.3	559.6	499.9	397.6	343.5	330.7	330.7
47.5°	1718.7	912.3	353.4	421.9	519.4	556.1	471.7	389.7	335.9	337.6	345.1
50°	1766.4	847.4	346.3	417.6	527.4	554.1	460.1	389.3	337.9	358.2	371.8
52.5°	1821.8	801.6	337.6	410.4	527.4	541.3	456.6	397.2	343.5	349.5	355.5
55°	1888.7	787.3	326.4	394.9	517.9	509.5	454.5	408.8	347.5	333.6	335.9
57.5°	1977.0	810.4	315.6	375.4	496.0	476.5	453.7	411.9	338.3	326.8	324.4
60°	2079.7	856.1	312.5	355.5	466.1	448.2	449.0	402.8	325.6	313.7	315.6
62.5°	2151.8	883.6	310.5	340.3	433.5	417.1	437.5	391.7	320.0	309.7	311.6
65°	2151.8	850.2	292.1	317.3	391.3	379.8	423.5	377.7	312.9	300.9	298.9
67.5°	2070.2	752.7	264.3	282.6	344.7	337.2	404.0	361.0	302.1	292.9	288.1
70°	1857.6	570.8	229.3	242.0	285.8	292.5	378.9	338.3	284.2	273.0	265.9
71°	1764.1	497.1	214.5	221.3	263.1	273.0	367.0	328.8	276.2	260.3	247.6
72.5°	1583.8	418.7	192.2	195.0	224.9	242.8	341.9	310.5	261.1	238.4	224.1
75°	1203.2	305.7	154.8	153.2	166.4	192.6	289.4	276.6	228.9	198.3	189.9
77.5°	519.8	166.4	115.8	117.1	113.1	146.1	227.7	237.6	196.2	161.2	153.6
80°	157.6	95.9	79.2	80.8	75.6	98.0	160.4	186.3	157.6	125.4	115.0
82.5°	80.8	57.3	54.1	53.3	48.2	55.4	97.1	127.4	112.7	78.4	69.3
85°	35.0	30.6	26.7	25.8	22.7	19.9	34.6	63.7	59.7	43.8	41.8
87.5°	8.8	8.0	5.2	4.8	2.8	0.4	0.0	0.0	0.0	0.0	0.0
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)