

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: P947706

Luminaire Tested: **GALN-SB3A-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-722-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11097 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 84.7
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



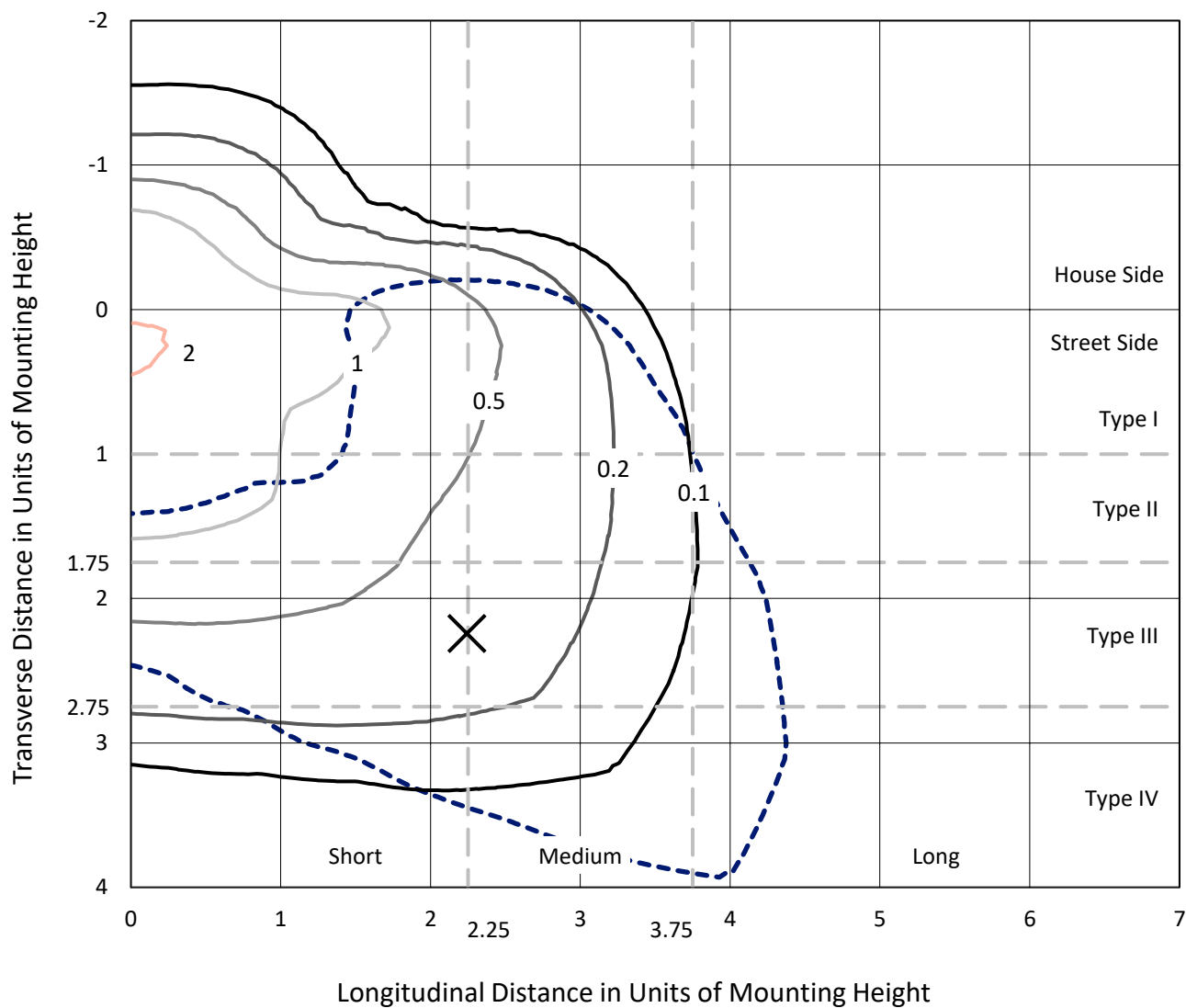
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



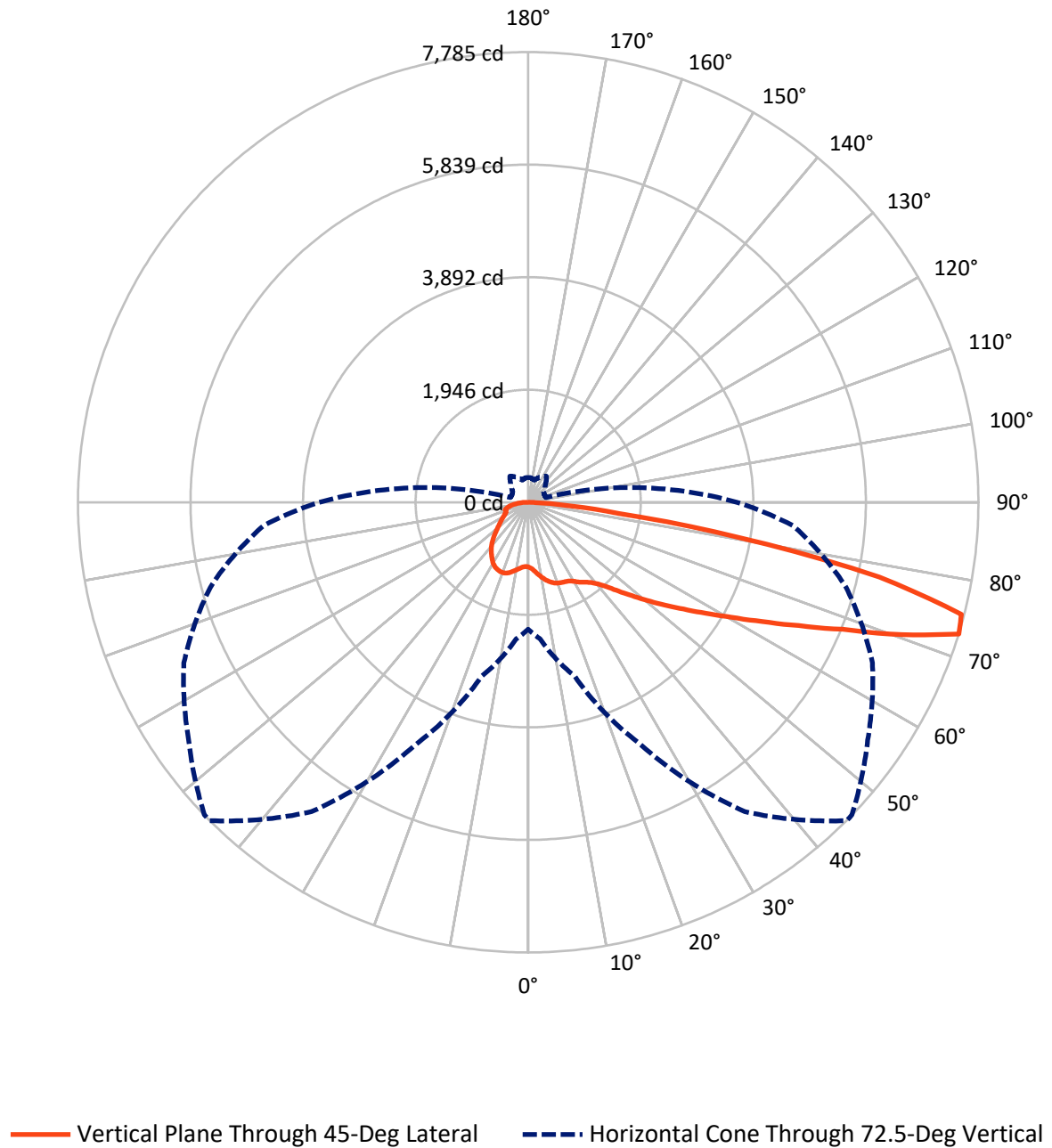
Based on 25 foot mounting height. Maximum calculated value = 2.2 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2508.7	0.0	2508.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	8588.3	0.0	8588.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	11097.0	0.0	11097.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	1.0
10°-20°	379.9	3.4
20°-30°	660.8	6.0
30°-40°	947.4	8.5
40°-50°	1333.9	12.0
50°-60°	2043.2	18.4
60°-70°	2959.9	26.7
70°-80°	2363.6	21.3
80°-90°	294.4	2.7
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°	11097.0	100.0
0°-180°	11097.0	100.0

Coefficient of Utilization



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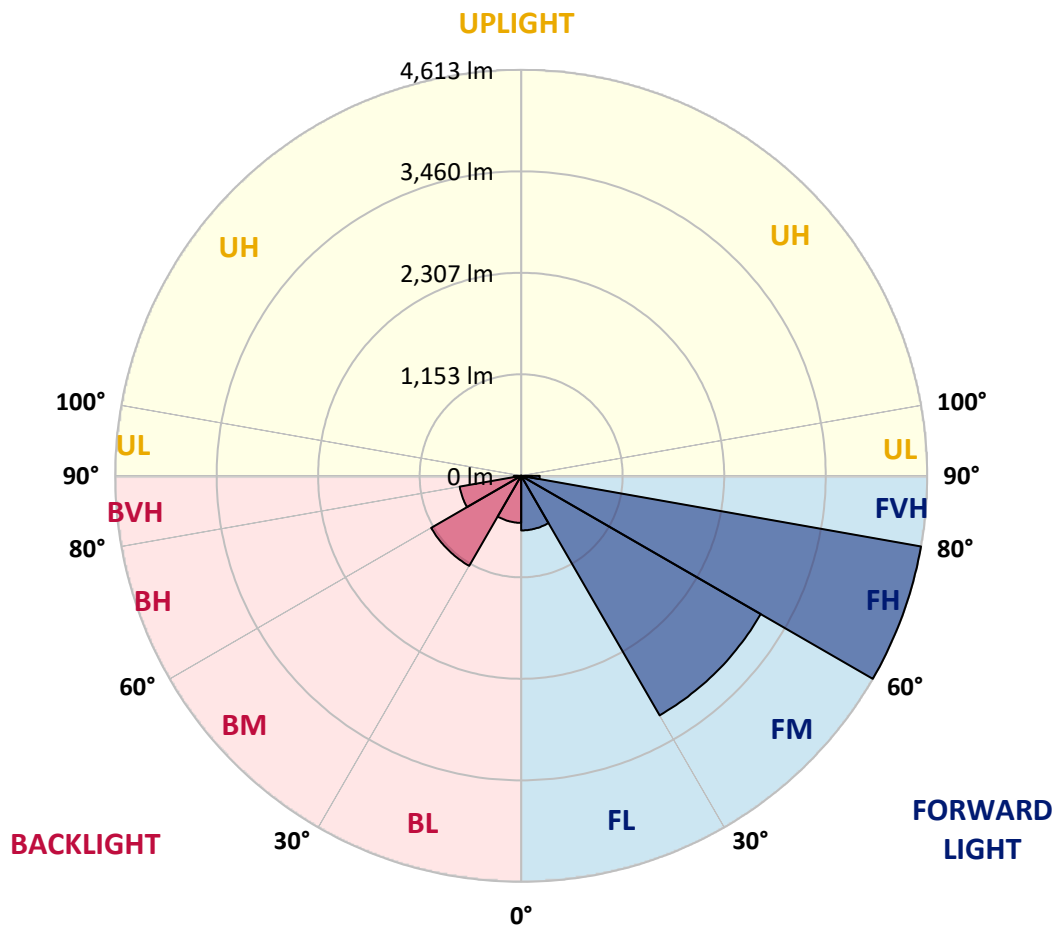
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	620.6	5.6			
FM	(30°-60°)	3143.2	28.3			
FH	(60°-80°)	4613.3	41.6			G2/5000
FVH	(80°-90°)	211.2	1.9			G2/225
BL	(0°-30°)	534.1	4.8	B2/1000		
BM	(30°-60°)	1181.2	10.6	B2/2500		
BH	(60°-80°)	710.1	6.4	B2/1000		G2/1000
BVH	(80°-90°)	83.2	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5
2.5°	1163.3	1170.9	1163.9	1157.5	1154.5	1146.9	1146.4	1141.7	1138.8	1130.6	1128.2
5°	1244.6	1254.5	1242.8	1230.0	1218.3	1199.6	1197.2	1183.8	1168.6	1151.0	1141.1
7.5°	1336.4	1345.1	1331.7	1312.4	1291.9	1260.9	1260.4	1235.8	1211.8	1182.0	1165.1
10°	1416.4	1428.1	1410.0	1383.7	1358.0	1322.9	1318.8	1290.8	1260.4	1221.8	1196.1
12.5°	1487.2	1495.4	1477.8	1445.7	1415.9	1380.8	1375.5	1344.5	1310.6	1266.8	1234.0
15°	1543.3	1553.8	1530.4	1495.9	1464.4	1429.9	1425.2	1397.1	1363.2	1317.1	1275.0
17.5°	1580.1	1588.9	1564.9	1526.3	1495.9	1467.3	1463.8	1440.4	1410.6	1363.8	1318.8
20°	1594.2	1603.5	1578.4	1539.2	1511.1	1488.9	1487.2	1470.2	1449.8	1407.1	1361.5
22.5°	1608.2	1616.9	1584.2	1543.3	1518.7	1504.7	1504.1	1493.0	1484.8	1449.8	1405.3
25°	1664.9	1667.2	1623.4	1564.3	1529.3	1517.0	1516.4	1515.8	1519.3	1491.8	1452.7
27.5°	1714.0	1713.4	1676.0	1620.5	1566.1	1540.4	1539.8	1545.6	1556.7	1533.9	1501.8
30°	1785.9	1779.5	1735.0	1677.2	1627.5	1587.7	1584.2	1579.0	1587.7	1569.6	1550.9
32.5°	1938.5	1918.0	1846.1	1743.2	1678.3	1647.9	1643.3	1610.5	1614.0	1602.9	1593.6
35°	2157.1	2130.2	2034.3	1868.3	1741.5	1698.2	1695.9	1654.4	1647.3	1637.4	1640.9
37.5°	2417.2	2383.9	2272.3	2049.5	1850.2	1756.7	1753.2	1715.7	1687.1	1676.6	1696.5
40°	2678.5	2636.5	2544.1	2270.5	2010.4	1854.3	1843.2	1786.5	1753.7	1736.2	1778.3
42.5°	2932.3	2897.2	2818.3	2518.4	2208.0	1996.9	1972.4	1875.3	1850.8	1834.4	1910.4
45°	3156.7	3125.2	3067.3	2783.2	2439.5	2191.0	2167.0	2008.6	2001.0	2001.0	2110.9
47.5°	3339.1	3332.1	3270.7	3053.3	2712.5	2412.0	2370.5	2193.9	2214.4	2246.0	2395.6
50°	3541.4	3522.1	3456.6	3319.2	3033.4	2665.1	2631.2	2421.3	2497.9	2584.4	2807.2
52.5°	3727.3	3737.8	3664.7	3596.3	3395.8	2947.5	2887.8	2689.7	2855.1	2998.3	3289.4
55°	3918.4	3919.0	3898.6	3889.2	3775.8	3259.6	3194.1	3012.3	3275.4	3453.1	3851.8
57.5°	4097.9	4099.1	4129.5	4211.9	4216.6	3619.7	3545.5	3408.7	3742.5	3923.7	4431.7
60°	4258.1	4266.3	4349.3	4542.2	4604.2	4032.4	3962.3	3876.9	4225.3	4407.7	5041.4
62.5°	4311.9	4341.7	4526.4	4800.6	4987.1	4538.7	4469.7	4418.8	4732.8	4902.3	5551.2
65°	4220.7	4289.1	4646.2	5013.9	5381.1	5140.2	5071.8	5016.3	5260.1	5419.6	5969.7
67.5°	3996.8	4085.0	4639.2	5237.8	5859.2	5863.9	5800.2	5669.8	5825.3	5886.7	6105.9
70°	3406.9	3539.0	4230.6	5321.4	6408.2	6853.6	6792.2	6456.7	6389.5	6092.5	5722.5
72.5°	2195.1	2372.8	3115.2	4633.4	6530.3	7784.9	7781.3	7167.0	6567.8	5692.6	4589.5
75°	800.9	909.6	1447.4	2908.3	5481.6	7737.5	7760.3	7045.4	5995.5	4397.2	2859.2
77.5°	291.7	319.2	472.3	1117.7	3371.3	6208.2	6255.6	5632.4	4267.4	2206.8	1132.9
80°	153.2	168.4	242.0	433.8	1444.5	3686.9	3761.2	3347.3	2005.7	664.7	339.6
82.5°	84.8	91.8	135.6	235.6	650.6	1576.6	1621.0	1322.3	705.6	281.8	140.3
85°	45.6	48.5	63.7	128.6	318.0	546.6	558.9	395.2	281.2	165.4	67.8
87.5°	13.4	16.4	21.0	40.9	124.5	122.8	125.7	78.3	111.1	83.6	22.2
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°	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5	1119.5
2.5°	1124.7	1123.0	1116.5	1113.6	1110.1	1109.5	1112.5	1113.0	1113.6	1114.2	1116.5
5°	1135.3	1129.4	1123.6	1120.1	1121.2	1121.8	1127.7	1131.7	1134.7	1137.0	1138.2
7.5°	1155.7	1151.0	1141.1	1140.5	1142.3	1147.5	1155.1	1164.5	1169.7	1173.8	1175.0
10°	1186.1	1177.3	1165.7	1167.4	1170.9	1178.5	1194.3	1201.9	1210.7	1218.3	1216.5
12.5°	1217.1	1209.5	1196.1	1197.2	1203.1	1216.5	1231.7	1241.1	1246.9	1252.8	1255.1
15°	1257.4	1244.0	1229.4	1229.4	1239.9	1254.5	1261.5	1269.1	1272.6	1279.1	1281.4
17.5°	1298.9	1281.4	1262.1	1260.9	1273.8	1280.8	1284.9	1286.1	1287.2	1294.3	1296.6
20°	1340.4	1321.2	1293.7	1291.3	1294.3	1293.1	1292.5	1291.3	1293.1	1301.9	1305.4
22.5°	1381.4	1359.1	1321.2	1310.6	1302.4	1291.3	1290.8	1290.2	1291.3	1300.1	1306.0
25°	1429.3	1402.4	1351.5	1320.0	1292.5	1277.3	1279.1	1279.6	1280.8	1287.8	1297.2
27.5°	1481.3	1451.5	1379.6	1317.1	1267.4	1256.8	1253.9	1255.7	1259.8	1270.9	1282.0
30°	1533.4	1498.3	1405.3	1305.4	1235.8	1221.2	1211.8	1215.9	1228.8	1239.9	1252.2
32.5°	1580.7	1545.6	1425.8	1279.6	1195.5	1172.7	1160.4	1165.7	1178.5	1182.6	1197.2
35°	1636.2	1596.5	1434.6	1238.7	1151.6	1116.5	1100.2	1092.6	1099.0	1094.9	1107.8
37.5°	1698.2	1656.7	1433.4	1184.9	1100.2	1059.8	1037.0	1008.4	995.0	980.9	989.7
40°	1790.0	1730.4	1419.4	1120.1	1036.5	999.6	958.7	910.2	879.8	852.3	854.1
42.5°	1915.1	1832.7	1393.6	1048.7	964.6	930.1	874.5	817.8	769.9	724.3	720.2
45°	2101.6	1966.5	1361.5	972.7	886.8	852.9	792.7	729.0	674.6	616.1	609.1
47.5°	2370.5	2146.6	1331.1	886.2	805.0	774.0	719.6	660.6	596.3	539.6	533.1
50°	2739.9	2405.0	1303.0	802.0	724.3	700.9	657.7	597.4	532.6	487.0	484.0
52.5°	3209.9	2756.3	1291.3	720.8	648.9	640.1	605.6	549.5	488.1	449.5	446.6
55°	3749.5	3176.6	1291.3	643.0	582.8	585.7	561.8	509.8	456.6	422.1	418.6
57.5°	4300.2	3602.2	1268.0	571.1	526.7	539.0	523.8	478.2	430.3	394.6	388.7
60°	4807.6	3958.8	1173.3	505.7	477.0	496.3	486.4	447.2	388.7	358.9	354.3
62.5°	5197.5	4159.9	990.9	453.6	436.1	458.3	453.0	406.3	381.1	368.9	364.8
65°	5392.8	4127.1	757.6	407.5	401.6	436.1	425.0	423.2	403.4	389.3	384.7
67.5°	5272.9	3845.4	549.5	373.5	381.7	415.6	458.3	465.3	428.5	401.0	396.3
70°	4747.4	3335.6	409.2	341.4	356.6	416.2	522.6	487.0	420.3	388.2	382.9
72.5°	3611.5	2487.4	317.4	307.5	323.9	419.1	551.3	477.0	396.9	429.1	425.6
75°	2065.3	1365.6	254.9	266.0	282.9	391.7	536.6	451.3	378.8	394.0	394.0
77.5°	787.4	525.0	210.4	225.1	227.4	342.0	513.3	449.5	360.7	351.9	320.9
80°	273.0	205.2	174.2	178.9	176.0	304.0	492.2	391.1	295.2	264.2	255.5
82.5°	111.7	102.3	138.0	132.1	125.1	236.2	397.5	319.8	241.4	213.4	211.0
85°	48.5	64.9	91.2	80.1	72.5	163.7	318.6	270.7	204.0	176.0	175.4
87.5°	9.9	24.6	38.6	36.2	37.4	109.3	226.2	192.3	144.4	108.1	84.8
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)