

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: P522688

Luminaire Tested: **GALN-SA3A-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12726 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

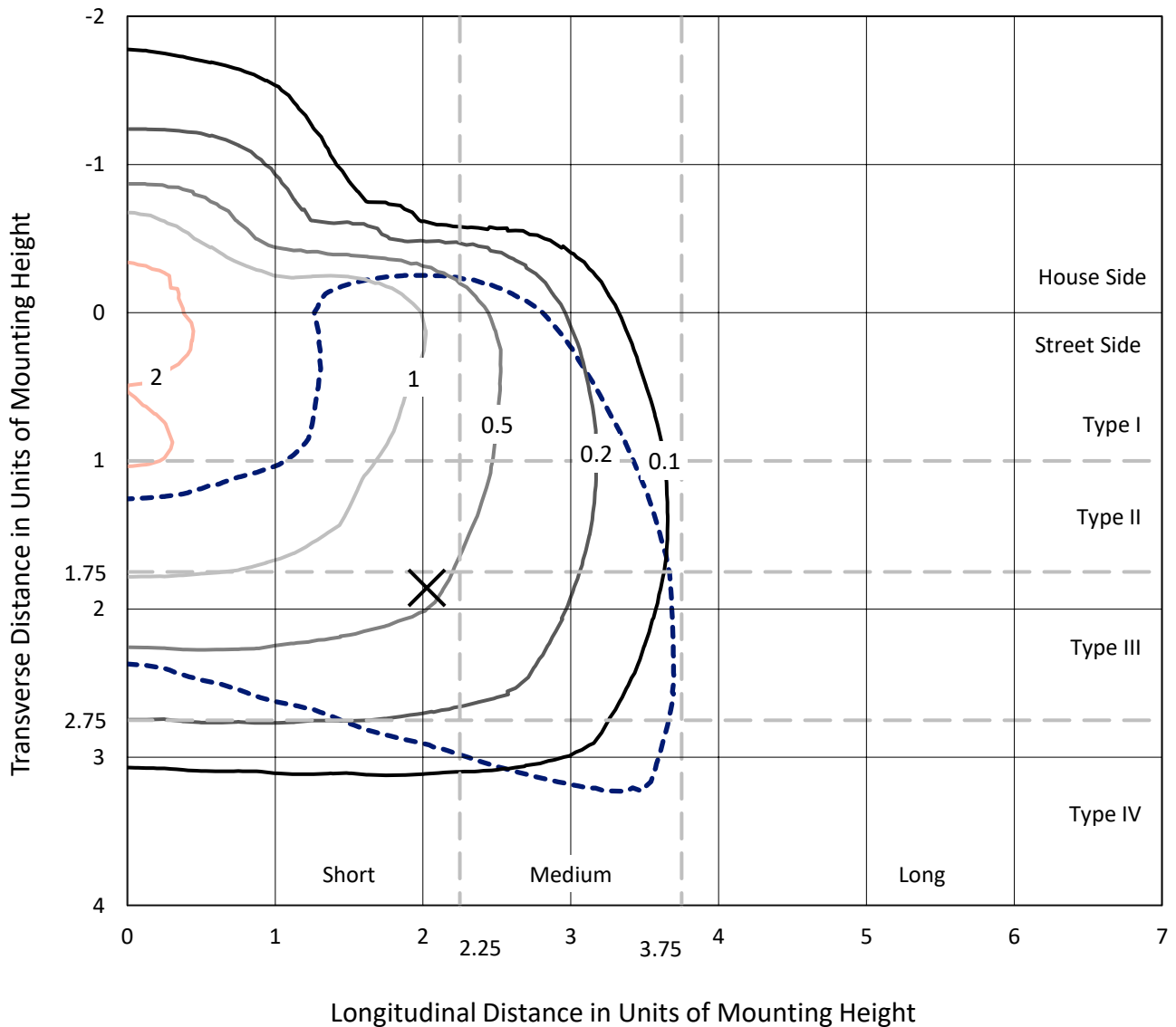
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

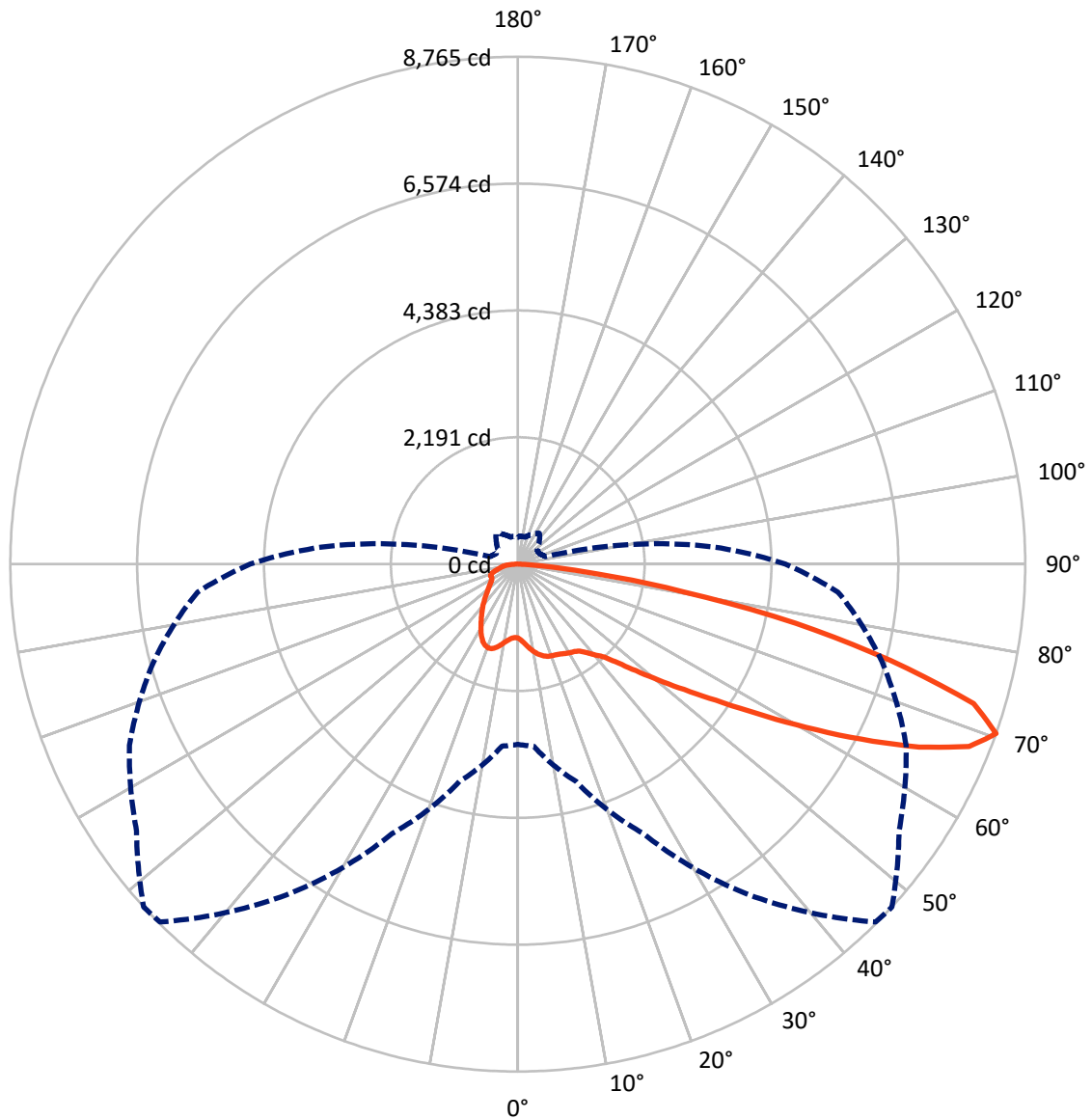
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2881.4	0.0	2881.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	9844.6	0.0	9844.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	12726.0	0.0	12726.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	1.0
10°-20°	440.2	3.5
20°-30°	732.1	5.8
30°-40°	1037.7	8.2
40°-50°	1531.8	12.0
50°-60°	2653.2	20.8
60°-70°	3747.7	29.4
70°-80°	2154.4	16.9
80°-90°	297.2	2.3
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°	12726.0	100.0
0°-180°	12726.0	100.0

Coefficient of Utilization



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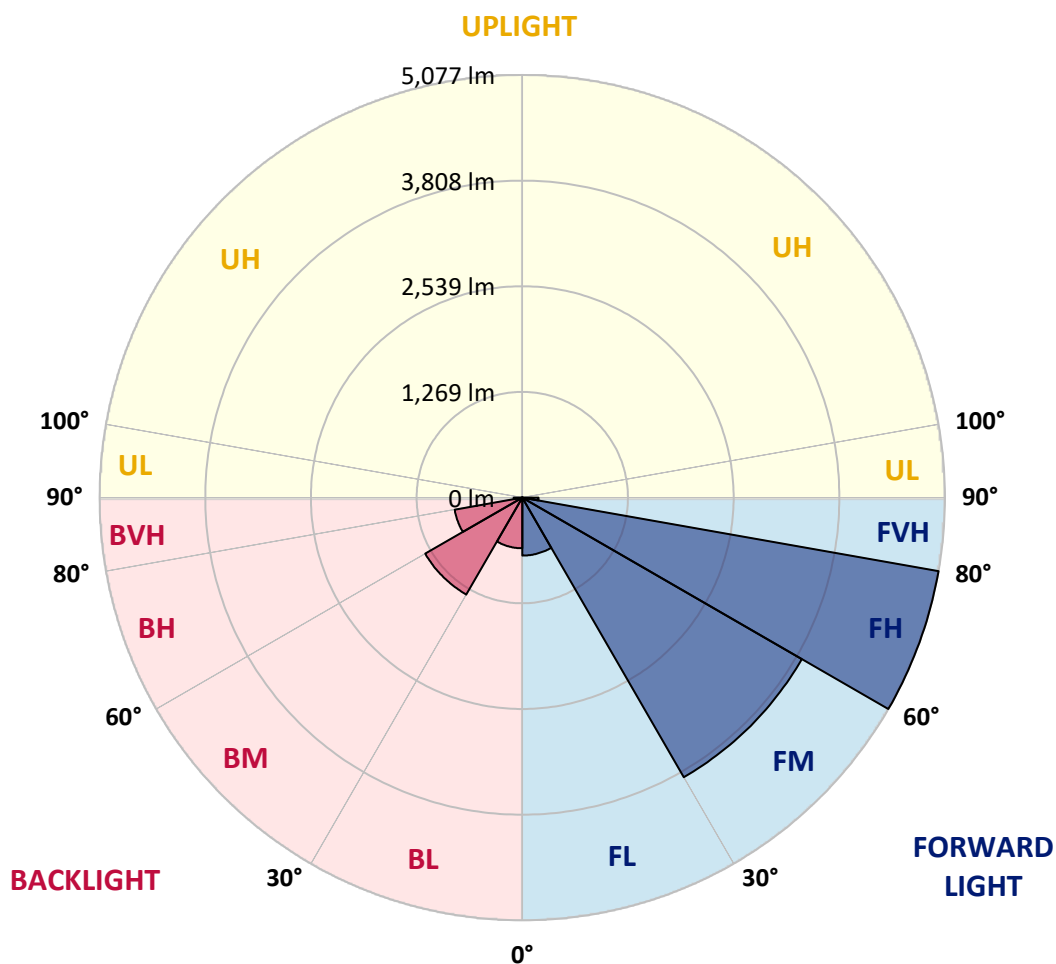
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	695.9	5.5			
FM	(30°-60°)	3877.4	30.5			
FH	(60°-80°)	5077.1	39.9			G3/7500
FVH	(80°-90°)	194.2	1.5			G2/225
BL	(0°-30°)	608.1	4.8	B2/1000		
BM	(30°-60°)	1345.3	10.6	B2/2500		
BH	(60°-80°)	824.9	6.5	B2/1000		G2/1000
BVH	(80°-90°)	103.1	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5
2.5°	1359.9	1355.2	1354.5	1344.3	1338.8	1328.6	1324.5	1315.0	1303.4	1291.8	1280.9
5°	1466.9	1466.9	1462.1	1447.8	1425.3	1402.2	1391.9	1373.6	1340.9	1314.3	1291.8
7.5°	1576.5	1577.9	1568.3	1547.2	1515.2	1477.7	1468.2	1441.0	1394.7	1355.9	1322.5
10°	1671.1	1671.1	1658.2	1629.6	1589.4	1548.6	1539.0	1508.4	1456.6	1408.3	1364.7
12.5°	1743.3	1743.3	1726.3	1688.9	1645.3	1608.5	1597.6	1568.3	1520.0	1466.2	1411.0
15°	1790.3	1786.9	1767.9	1725.6	1683.4	1651.4	1643.9	1619.4	1575.1	1520.7	1458.7
17.5°	1792.4	1791.0	1772.6	1737.2	1700.4	1678.6	1673.9	1657.5	1622.8	1571.0	1505.7
20°	1752.9	1755.6	1743.3	1718.1	1700.4	1690.9	1688.9	1683.4	1658.9	1610.5	1545.2
22.5°	1710.6	1715.4	1703.8	1690.2	1688.9	1698.4	1699.8	1701.1	1685.5	1638.5	1578.5
25°	1700.4	1703.8	1692.3	1680.0	1687.5	1712.7	1718.1	1723.6	1711.3	1671.8	1618.0
27.5°	1752.2	1749.5	1727.0	1700.4	1705.2	1739.2	1746.7	1752.9	1746.7	1712.7	1667.1
30°	1898.6	1889.7	1844.8	1767.2	1742.7	1766.5	1774.0	1791.0	1791.0	1765.8	1720.2
32.5°	2143.8	2126.7	2044.3	1891.8	1806.7	1792.4	1799.9	1827.8	1842.1	1822.3	1772.6
35°	2441.3	2423.6	2305.8	2100.9	1923.8	1844.1	1842.1	1873.4	1911.5	1867.3	1802.6
37.5°	2740.3	2721.9	2580.3	2350.1	2094.7	1953.1	1940.8	1951.7	1968.1	1887.0	1844.1
40°	3039.3	3017.5	2893.5	2628.6	2303.8	2097.4	2065.4	2016.4	2009.6	1951.7	1924.5
42.5°	3335.5	3315.7	3253.1	2941.2	2554.4	2238.4	2189.4	2104.9	2130.8	2096.1	2072.3
45°	3634.4	3635.8	3569.1	3291.9	2856.8	2498.6	2432.5	2300.4	2361.7	2348.7	2362.4
47.5°	3899.3	3895.9	3872.1	3632.4	3232.0	2833.6	2748.5	2595.3	2700.1	2747.8	2852.0
50°	4156.1	4154.0	4155.4	4018.5	3667.8	3232.0	3138.0	2977.3	3213.6	3379.1	3565.7
52.5°	4523.8	4535.4	4453.0	4416.9	4197.6	3702.5	3599.0	3432.9	3820.4	4081.2	4445.5
55°	4892.9	4883.4	4818.7	4856.1	4751.9	4259.6	4151.3	4019.2	4495.9	4781.2	5328.7
57.5°	5110.1	5113.6	5179.6	5362.8	5436.3	4954.2	4856.1	4754.0	5255.2	5457.5	6114.6
60°	5305.6	5321.3	5511.3	5857.2	6056.7	5807.5	5720.3	5620.9	5951.9	6032.2	6797.0
62.5°	5366.9	5415.2	5746.9	6264.4	6661.4	6770.4	6662.1	6442.8	6615.1	6583.8	7259.4
65°	5061.1	5127.2	5721.7	6417.0	7201.5	7684.3	7615.5	7208.3	7180.4	6991.7	7334.9
67.5°	4256.2	4322.2	5085.6	6096.9	7424.8	8475.6	8406.8	7766.7	7523.6	7029.9	6762.9
70°	3114.2	3155.7	3885.7	5133.3	6976.1	8741.2	8765.0	8039.1	7401.0	6511.6	5552.8
72.5°	1794.4	1886.3	2397.8	3611.3	5699.2	8069.7	8235.2	7472.5	6626.0	5432.3	3882.3
75°	771.6	773.6	1108.7	1991.9	3859.9	6486.4	6646.5	6194.3	5203.4	3756.3	2072.9
77.5°	367.1	373.9	487.6	889.4	2124.7	4481.6	4913.3	4376.0	3328.0	1804.6	783.1
80°	238.3	243.1	298.3	441.3	1041.9	2598.7	2899.7	2524.4	1468.2	644.9	337.8
82.5°	144.4	145.7	199.5	269.7	573.4	1176.8	1387.2	1095.7	626.5	386.1	198.8
85°	87.8	88.5	121.2	166.8	348.0	406.6	417.4	414.0	367.7	252.6	106.2
87.5°	42.2	43.6	62.7	79.0	136.9	126.0	119.2	138.2	173.7	136.2	45.6
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°	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5
2.5°	1276.2	1274.1	1269.4	1267.3	1266.0	1266.6	1266.0	1266.0	1266.6	1266.6	1266.6
5°	1282.3	1278.9	1271.4	1271.4	1275.5	1285.0	1293.9	1300.7	1308.2	1307.5	1307.5
7.5°	1308.9	1302.7	1293.9	1296.6	1306.8	1321.8	1337.5	1352.4	1367.4	1368.8	1368.1
10°	1347.7	1341.6	1332.0	1335.4	1351.8	1374.2	1394.0	1415.8	1432.1	1436.9	1435.5
12.5°	1391.9	1379.7	1371.5	1381.0	1406.9	1436.9	1456.0	1472.3	1483.9	1490.7	1488.0
15°	1436.9	1425.3	1415.8	1435.5	1466.9	1494.8	1504.3	1507.0	1509.1	1515.9	1514.5
17.5°	1480.5	1464.8	1461.4	1487.3	1517.2	1529.5	1524.1	1512.5	1503.6	1509.1	1508.4
20°	1519.3	1507.0	1505.7	1531.5	1543.1	1531.5	1508.4	1488.0	1472.3	1473.7	1473.0
22.5°	1556.1	1546.5	1547.9	1558.8	1540.4	1500.9	1462.8	1434.8	1417.8	1421.2	1423.3
25°	1596.9	1587.4	1590.8	1573.1	1512.5	1443.7	1388.5	1364.7	1357.9	1364.7	1369.5
27.5°	1650.0	1643.9	1641.9	1573.8	1462.8	1359.3	1296.6	1287.8	1293.9	1308.9	1316.4
30°	1707.2	1707.2	1696.3	1562.2	1394.7	1257.8	1203.3	1204.7	1225.8	1246.9	1254.4
32.5°	1762.4	1774.0	1739.9	1530.9	1306.8	1159.0	1117.5	1118.9	1137.3	1163.1	1169.9
35°	1808.0	1841.4	1777.4	1473.7	1203.3	1076.0	1044.6	1026.3	1026.9	1046.7	1052.1
37.5°	1870.7	1932.6	1799.2	1388.5	1093.0	1005.1	969.7	937.7	916.6	908.4	908.4
40°	1979.6	2070.9	1804.6	1262.6	988.8	937.7	887.3	849.2	808.3	771.6	764.8
42.5°	2164.2	2279.3	1793.7	1117.5	894.8	863.5	814.5	767.5	711.0	659.2	655.1
45°	2491.1	2550.3	1764.4	967.0	811.1	792.0	744.3	693.2	633.3	587.0	583.6
47.5°	3014.7	2931.0	1725.6	833.5	734.8	729.3	692.6	633.3	573.4	541.4	538.0
50°	3779.5	3530.3	1720.2	736.8	673.5	676.2	646.3	591.8	539.3	512.8	508.7
52.5°	4700.2	4254.1	1756.3	668.7	619.7	629.9	614.9	564.5	518.2	495.8	491.7
55°	5593.7	4905.2	1778.1	615.6	569.3	588.4	590.4	548.2	506.0	483.5	480.8
57.5°	6318.9	5395.5	1681.4	567.3	525.7	555.0	570.0	538.7	499.8	482.8	480.1
60°	6823.5	5627.0	1406.2	524.4	493.7	528.4	562.5	539.3	514.8	516.9	518.2
62.5°	6984.2	5524.2	1054.9	492.4	471.9	519.6	574.8	567.3	542.1	557.7	560.5
65°	6718.0	5099.3	764.8	467.2	452.9	525.7	611.5	587.7	532.5	544.1	544.1
67.5°	5826.6	4393.1	595.2	444.0	431.1	537.3	648.3	585.7	510.1	523.7	511.4
70°	4621.9	3398.1	495.8	418.1	407.9	520.3	651.7	564.5	483.5	486.2	463.1
72.5°	3067.2	2234.3	426.3	393.6	372.5	467.8	623.8	537.3	457.6	442.0	418.8
75°	1502.9	1114.1	371.8	363.0	326.2	407.2	585.7	511.4	429.7	405.2	392.3
77.5°	582.2	474.0	317.3	324.2	284.0	358.9	535.3	474.7	392.9	359.6	349.3
80°	282.6	269.0	260.1	270.4	233.6	305.8	489.0	442.6	358.9	322.1	307.1
82.5°	175.7	166.2	199.5	210.4	179.8	279.2	463.8	415.4	316.0	266.9	254.7
85°	89.2	95.3	133.5	143.7	128.7	222.0	382.0	311.9	228.1	189.3	190.7
87.5°	34.0	45.6	70.1	75.6	68.8	117.1	210.4	181.8	146.4	99.4	91.9
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)