

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: P452072

Luminaire Tested: **GALN-SA3A-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11392 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

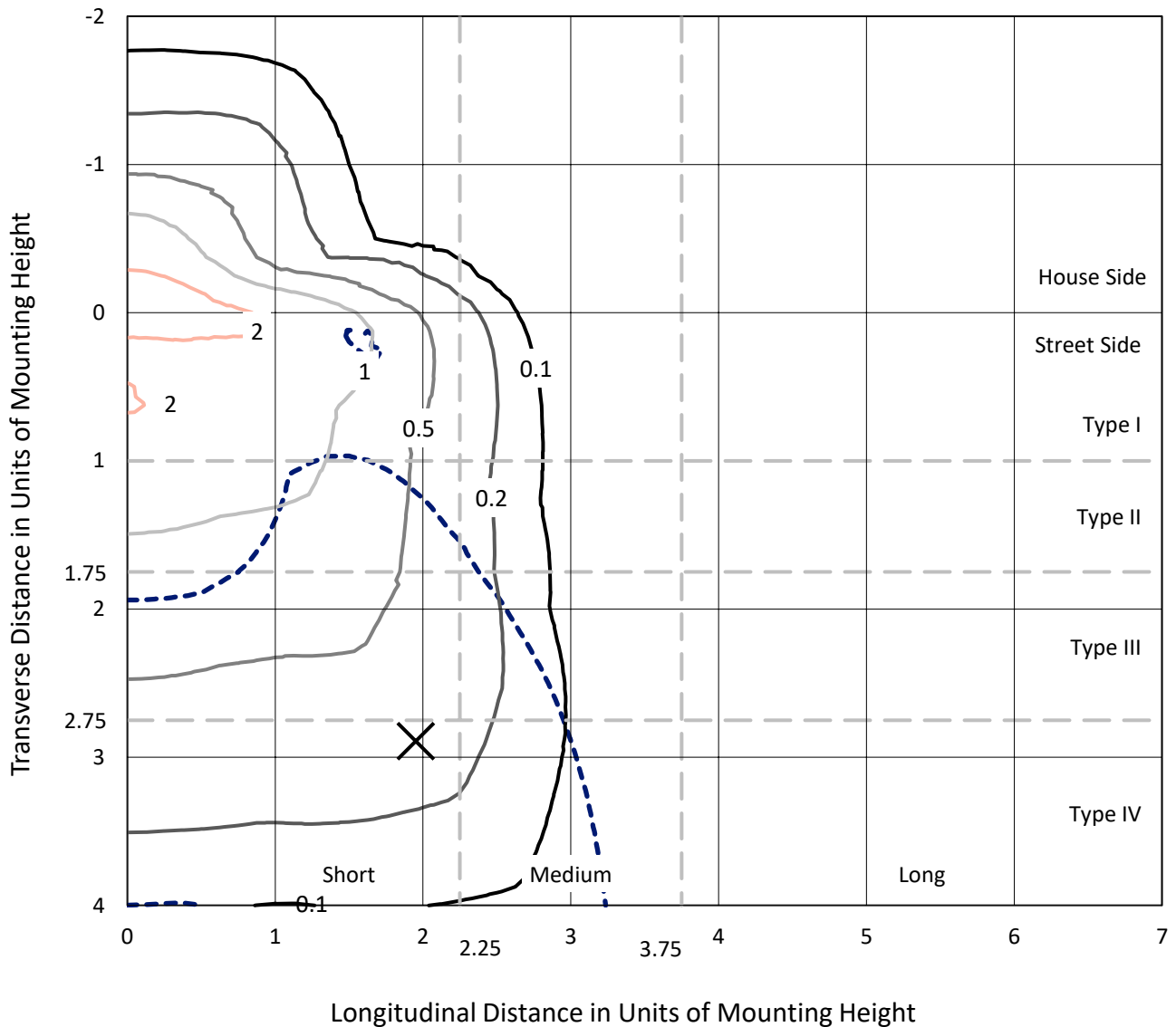
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

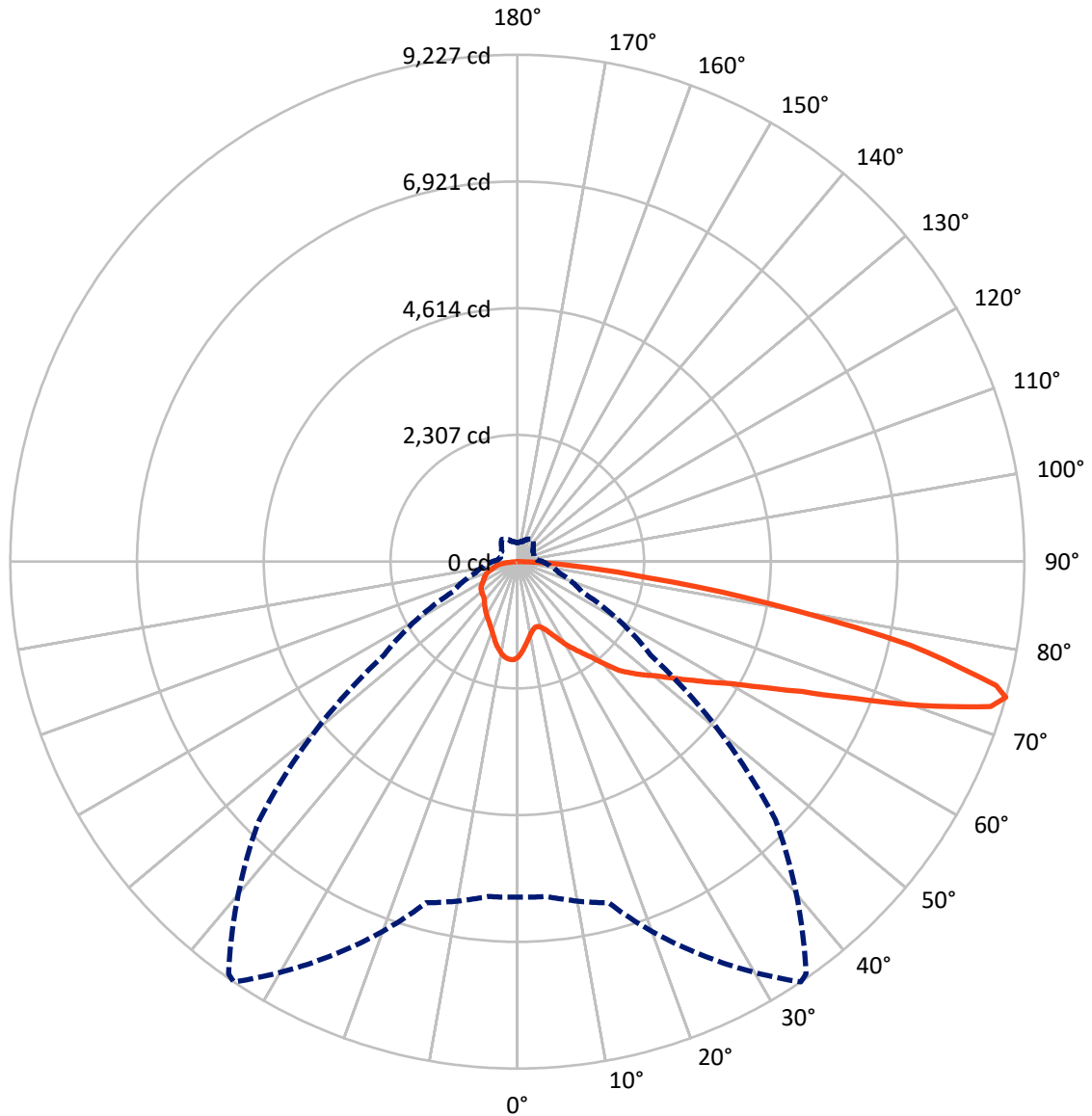
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2424.3	0.0	2424.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	8967.7	0.0	8967.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	11392.0	0.0	11392.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	1.4
10°-20°	433.0	3.8
20°-30°	713.9	6.3
30°-40°	1069.4	9.4
40°-50°	1554.6	13.6
50°-60°	2171.4	19.1
60°-70°	2718.5	23.9
70°-80°	2248.0	19.7
80°-90°	324.8	2.9
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°	11392.0	100.0
0°-180°	11392.0	100.0

Coefficient of Utilization



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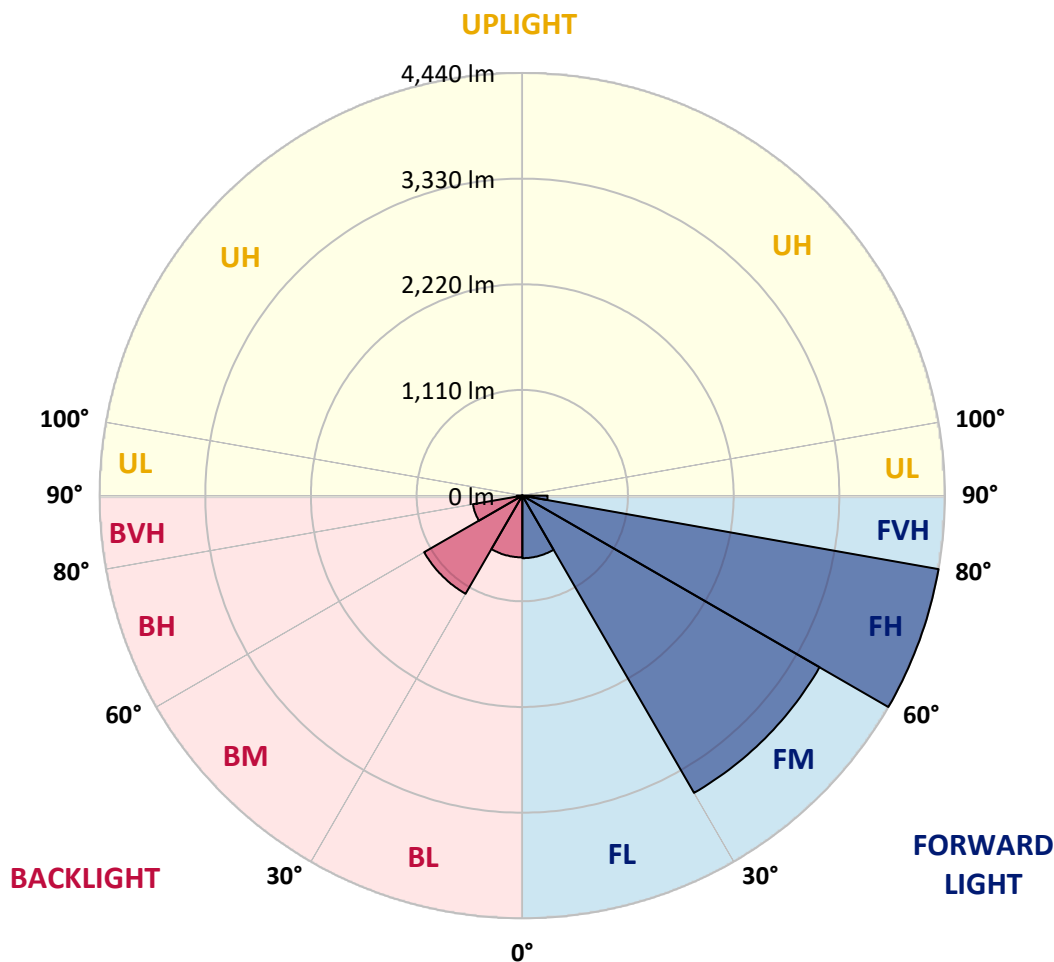
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	656.7	5.8			
FM	(30°-60°)	3604.9	31.6			
FH	(60°-80°)	4440.0	39.0			G2/5000
FVH	(80°-90°)	266.1	2.3			G3/500
BL	(0°-30°)	648.5	5.7	B2/1000		
BM	(30°-60°)	1190.6	10.5	B2/2500		
BH	(60°-80°)	526.5	4.6	B2/1000		G2/1000
BVH	(80°-90°)	58.7	0.5			G1/100
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°	34°	35°	45°	55°	65°	75°	85°
0°	1739.3	1739.3	1739.3	1739.3	1739.3	1739.3	1739.3	1739.3	1739.3	1739.3	1739.3
2.5°	1607.4	1615.6	1620.1	1635.8	1639.6	1644.7	1657.9	1675.6	1698.3	1718.5	1736.2
5°	1473.6	1486.3	1493.8	1507.7	1534.9	1537.4	1572.7	1613.1	1659.2	1702.1	1737.4
7.5°	1346.8	1360.7	1367.0	1392.2	1428.2	1433.9	1485.6	1549.4	1626.4	1691.4	1745.6
10°	1251.5	1258.4	1272.3	1291.2	1334.2	1337.9	1405.5	1490.7	1590.4	1686.3	1759.5
12.5°	1199.7	1203.5	1206.7	1226.9	1269.2	1274.8	1345.5	1442.1	1562.0	1690.1	1782.2
15°	1207.3	1208.6	1194.7	1198.5	1232.6	1240.8	1310.8	1409.9	1544.3	1699.6	1816.3
17.5°	1271.1	1266.6	1232.6	1214.9	1238.9	1242.7	1303.9	1397.3	1536.1	1717.2	1851.7
20°	1371.4	1365.1	1306.4	1267.3	1281.1	1284.3	1326.6	1406.7	1544.3	1746.3	1906.6
22.5°	1496.4	1493.8	1404.8	1357.5	1356.9	1356.9	1379.0	1440.8	1568.9	1786.0	1964.0
25°	1671.2	1657.9	1541.8	1480.6	1463.5	1462.3	1459.8	1497.0	1600.5	1828.3	2032.2
27.5°	1850.4	1827.7	1724.2	1630.2	1593.5	1589.1	1572.7	1576.5	1640.9	1876.3	2109.8
30°	2011.3	1996.8	1899.6	1795.5	1752.0	1741.9	1696.4	1675.6	1708.4	1962.7	2233.5
32.5°	2134.4	2125.6	2049.8	1955.2	1890.8	1888.9	1822.6	1805.6	1813.8	2067.5	2374.9
35°	2234.1	2237.3	2198.8	2116.7	2042.9	2032.2	1988.0	1966.5	1942.5	2219.0	2552.8
37.5°	2370.4	2377.4	2374.9	2304.2	2213.9	2216.5	2206.4	2171.0	2107.3	2388.1	2750.4
40°	2520.6	2525.7	2525.1	2497.9	2450.6	2453.1	2449.3	2408.9	2313.6	2603.3	2970.0
42.5°	2728.3	2704.3	2641.8	2669.0	2696.7	2708.7	2734.6	2696.1	2565.5	2833.0	3176.4
45°	2960.5	2915.1	2773.7	2786.3	2889.2	2911.9	3054.6	3001.5	2838.7	3096.8	3419.3
47.5°	3106.9	3062.1	2942.9	2940.3	3076.7	3098.7	3351.2	3331.6	3087.4	3381.5	3716.0
50°	3237.6	3231.3	3096.8	3129.0	3262.2	3295.0	3674.3	3656.0	3335.4	3717.2	4039.1
52.5°	3431.3	3380.2	3272.9	3339.2	3515.3	3558.2	3994.9	3941.3	3563.2	4013.8	4352.8
55°	3518.4	3506.4	3500.1	3557.6	3799.3	3830.2	4306.7	4183.6	3757.6	4265.0	4591.3
57.5°	3751.3	3729.2	3791.7	3830.8	4133.8	4181.1	4632.3	4436.7	3928.0	4464.5	4707.4
60°	4053.0	4041.0	4098.4	4169.1	4507.4	4579.3	5003.4	4652.5	4065.0	4564.8	4643.7
62.5°	4503.6	4502.3	4491.6	4643.1	5036.9	5103.1	5429.4	4862.7	4086.4	4489.7	4314.3
65°	5149.8	5127.1	5033.7	5199.1	5695.7	5773.4	5873.1	4980.1	3957.0	4104.1	3632.7
67.5°	5825.8	5824.5	5748.8	5963.3	6641.8	6721.9	6427.8	4954.2	3597.9	3324.7	2580.0
70°	6386.2	6359.0	6455.6	7027.4	7850.3	7943.1	6913.2	4649.4	2865.9	2195.6	1533.0
72.5°	6520.6	6521.9	6722.6	7847.8	9011.0	9025.5	7088.0	3768.3	1917.9	1211.1	766.8
74°	6106.6	6117.3	6428.5	7888.8	9227.4	9161.8	6641.1	2961.8	1296.9	790.8	552.9
75°	5573.9	5506.4	5956.4	7615.6	9002.8	8932.1	6118.0	2376.8	989.6	631.7	484.1
77.5°	2980.1	3048.9	3743.1	5683.1	7313.9	7232.5	4148.3	1139.8	534.5	439.9	348.4
80°	1060.9	1170.1	1644.7	2973.8	4689.1	4714.4	1979.8	522.6	376.1	324.4	246.1
82.5°	432.9	444.9	706.2	1319.6	2381.2	2403.9	808.4	310.5	268.9	223.4	147.0
85°	169.1	174.2	312.4	593.2	1016.1	1082.3	279.6	164.1	165.4	128.1	75.1
87.5°	56.8	64.4	128.1	197.5	345.2	338.3	81.4	48.6	59.3	55.5	23.4
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°	1739.3	1739.3	1739.3	1739.3	1739.3	1739.3	1739.3	1739.3	1739.3	1739.3	1739.3
2.5°	1745.0	1757.0	1765.2	1774.0	1782.2	1784.8	1782.9	1788.6	1789.2	1789.8	1790.5
5°	1755.1	1771.5	1787.3	1796.1	1799.9	1796.8	1786.0	1780.4	1775.3	1771.5	1772.8
7.5°	1769.0	1792.3	1806.9	1810.6	1800.6	1786.0	1759.5	1738.7	1725.4	1716.6	1716.0
10°	1790.5	1813.2	1825.2	1814.4	1786.7	1751.3	1709.7	1670.5	1640.9	1632.0	1631.4
12.5°	1817.6	1843.5	1842.8	1811.3	1762.7	1699.6	1632.0	1586.6	1546.2	1526.0	1534.2
15°	1852.9	1872.5	1854.2	1797.4	1720.4	1633.9	1550.6	1488.8	1443.3	1421.9	1423.1
17.5°	1894.0	1911.0	1862.4	1772.8	1661.1	1550.0	1453.4	1394.7	1358.8	1343.0	1341.7
20°	1945.1	1950.1	1862.4	1729.9	1584.7	1452.2	1360.0	1319.0	1298.8	1290.6	1293.1
22.5°	2000.0	1989.9	1852.3	1669.3	1484.4	1349.9	1288.1	1269.8	1259.7	1258.4	1259.7
25°	2061.8	2033.4	1831.5	1587.2	1379.6	1261.6	1225.6	1228.8	1230.7	1230.7	1235.1
27.5°	2137.6	2080.8	1796.8	1483.7	1257.2	1179.5	1169.4	1191.5	1201.6	1203.5	1206.7
30°	2237.3	2132.5	1739.3	1354.4	1153.0	1105.7	1123.4	1153.0	1164.4	1171.3	1170.1
32.5°	2355.9	2189.3	1661.7	1225.0	1069.1	1054.0	1075.4	1105.7	1118.3	1122.1	1117.1
35°	2495.4	2253.7	1559.5	1103.8	995.9	1004.7	1030.0	1039.4	1050.8	1050.8	1053.3
37.5°	2645.6	2305.4	1434.5	992.7	939.1	971.3	989.6	980.7	975.7	969.4	972.5
40°	2798.3	2343.9	1272.3	882.9	882.3	936.6	941.6	916.4	896.2	889.9	886.7
42.5°	2931.5	2367.9	1125.9	797.7	828.6	902.5	906.3	865.9	833.7	814.8	808.4
45°	3088.6	2395.7	982.6	727.0	778.8	875.3	884.8	830.5	783.2	743.4	733.3
47.5°	3303.8	2458.8	869.7	672.1	742.8	858.3	871.6	801.5	739.0	687.3	679.1
50°	3546.8	2545.3	781.9	634.9	715.0	843.2	859.6	771.8	698.0	640.6	634.3
52.5°	3769.6	2592.0	706.2	601.4	687.9	815.4	843.8	750.4	657.6	593.9	588.2
55°	3891.4	2516.2	631.7	568.6	650.7	779.4	821.7	720.7	618.5	569.3	561.1
57.5°	3907.8	2359.7	564.2	533.3	611.5	735.2	780.7	684.8	593.2	552.2	545.3
60°	3781.0	2126.2	511.8	504.3	571.8	685.4	734.6	653.2	567.4	533.3	526.3
62.5°	3465.4	1872.5	475.2	477.7	531.4	633.0	700.5	622.9	542.8	512.5	506.1
65°	2922.7	1545.6	439.9	450.6	495.4	592.0	669.6	597.7	518.1	496.7	491.0
67.5°	2030.3	1115.8	410.9	422.2	461.3	550.3	633.6	570.5	490.4	479.0	470.2
70°	1124.0	686.6	376.8	390.0	426.0	503.6	593.2	529.5	450.0	444.9	432.3
72.5°	590.7	437.4	338.3	352.8	378.0	443.7	531.4	484.7	410.2	388.8	372.4
74°	461.3	358.5	312.4	327.5	344.6	408.3	494.8	452.5	381.8	356.6	344.0
75°	402.0	319.3	290.3	309.9	325.0	384.3	466.4	429.8	366.0	342.1	330.7
77.5°	284.0	239.2	237.3	260.6	268.9	337.0	420.3	391.3	326.3	301.0	290.3
80°	199.4	179.2	188.1	202.6	213.9	297.9	390.0	338.3	267.6	237.9	234.1
82.5°	130.0	117.4	134.4	147.7	151.5	219.6	314.9	256.9	195.0	158.4	147.0
85°	60.0	58.7	77.0	75.1	74.5	107.3	186.8	150.2	112.3	83.9	78.9
87.5°	15.1	14.5	18.9	15.8	18.9	16.4	17.0	4.4	0.6	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)