

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: P522689

Luminaire Tested: **GALN-SA3A-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522689
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-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 13662 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

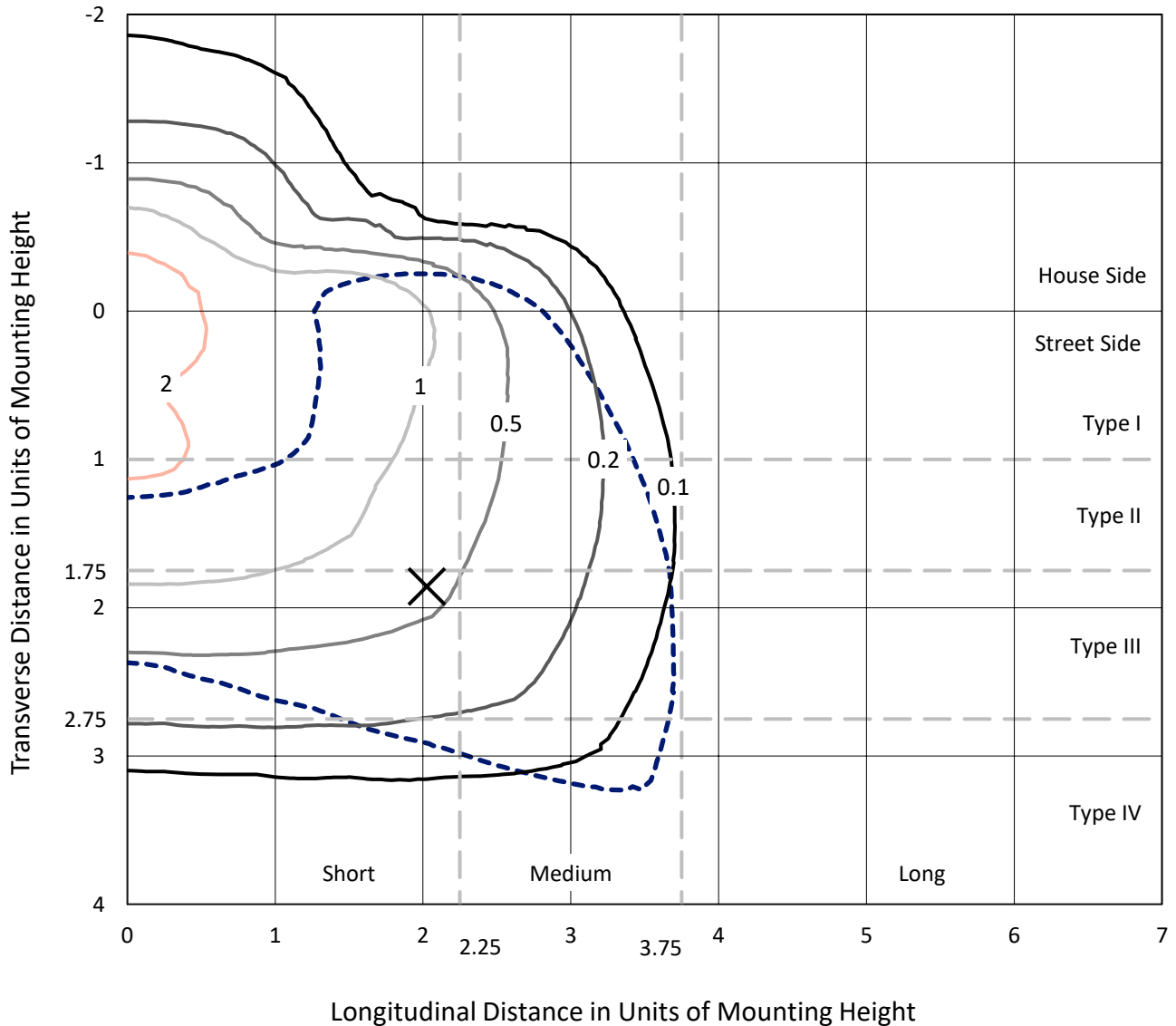
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

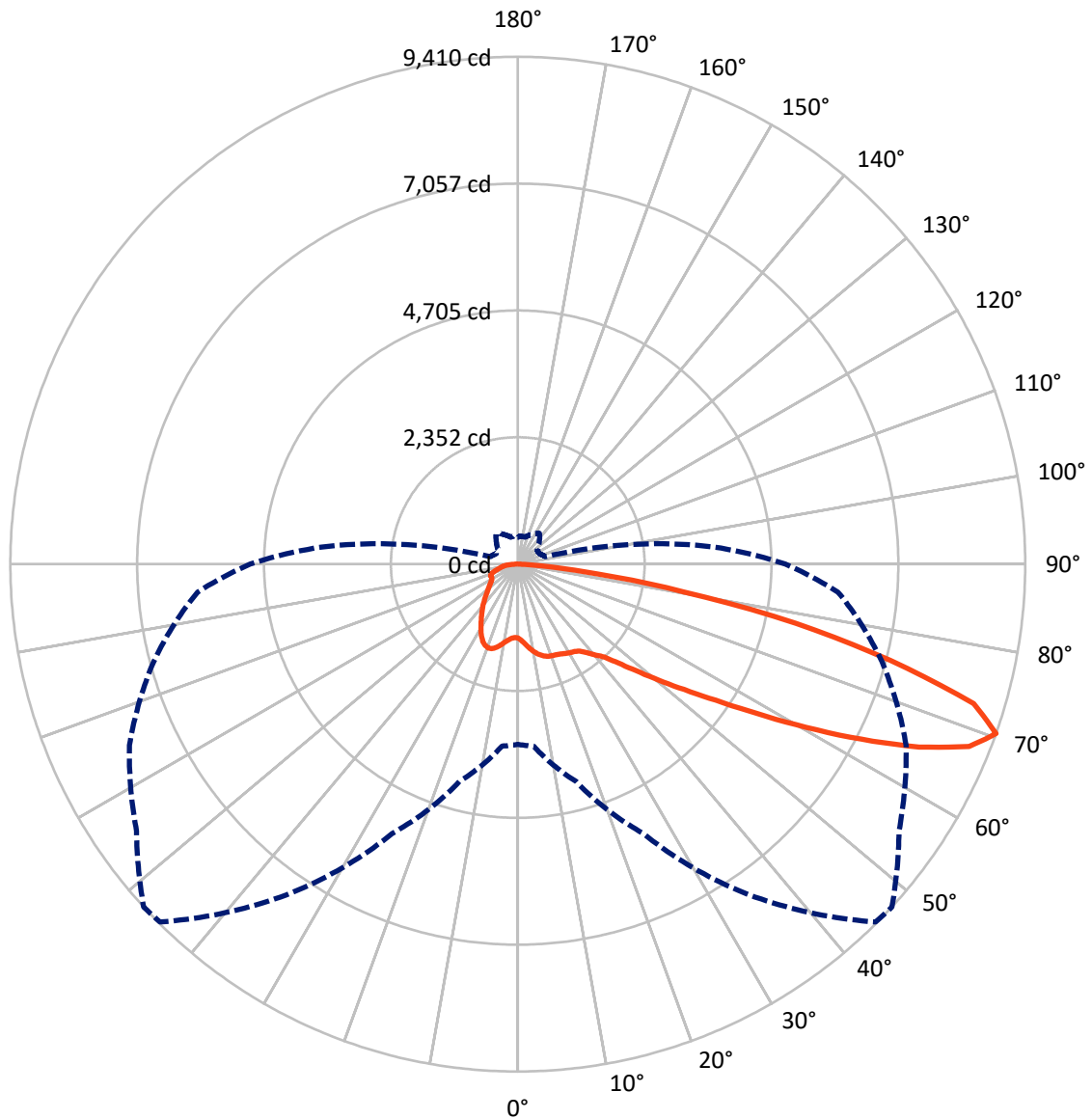
× Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3093.3	0.0	3093.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	10568.7	0.0	10568.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	13662.0	0.0	13662.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	1.0
10°-20°	472.6	3.5
20°-30°	786.0	5.8
30°-40°	1114.0	8.2
40°-50°	1644.5	12.0
50°-60°	2848.3	20.8
60°-70°	4023.3	29.4
70°-80°	2312.8	16.9
80°-90°	319.1	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°	13662.0	100.0
0°-180°	13662.0	100.0

Coefficient of Utilization



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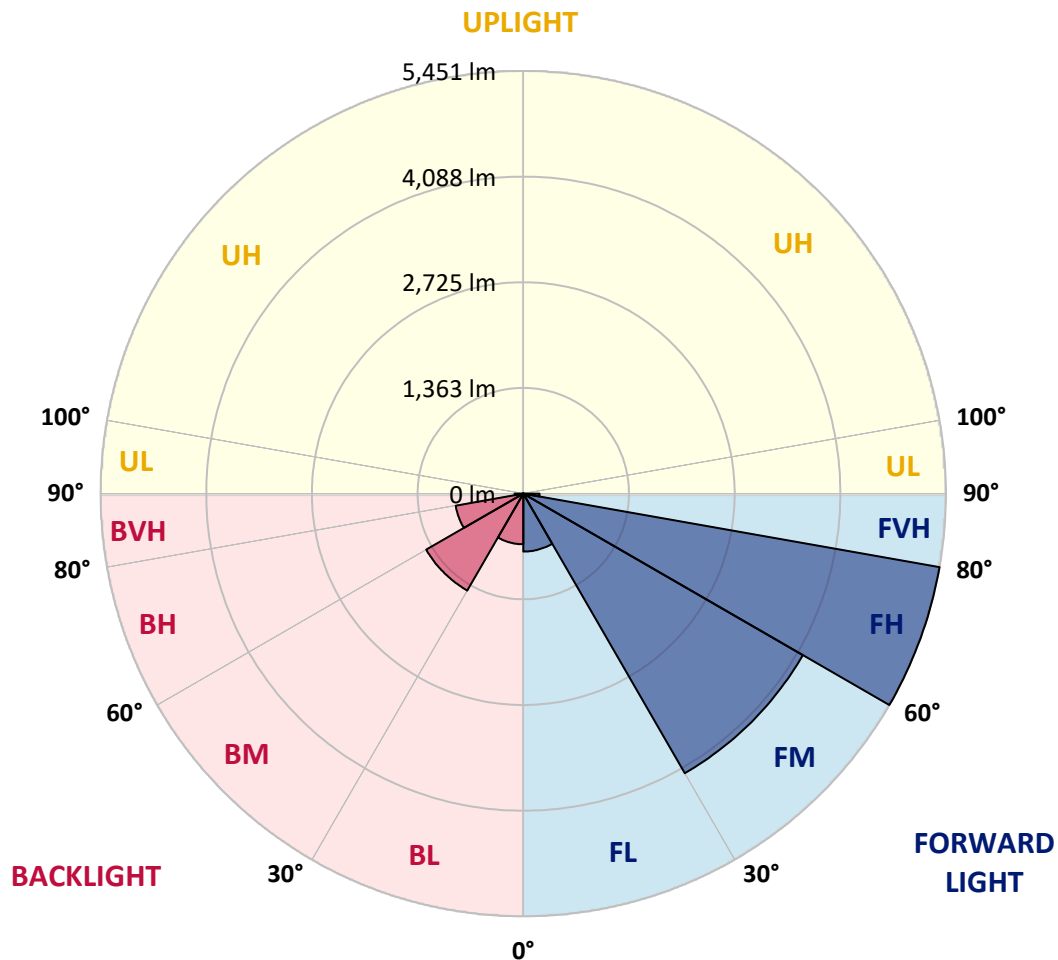
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	747.1	5.5			
FM	(30°-60°)	4162.6	30.5			
FH	(60°-80°)	5450.6	39.9			G3/7500
FVH	(80°-90°)	208.5	1.5			G2/225
BL	(0°-30°)	652.9	4.8	B2/1000		
BM	(30°-60°)	1444.2	10.6	B2/2500		
BH	(60°-80°)	885.6	6.5	B2/1000		G2/1000
BVH	(80°-90°)	110.7	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°	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5
2.5°	1460.0	1454.8	1454.1	1443.1	1437.3	1426.3	1421.9	1411.7	1399.3	1386.9	1375.2
5°	1574.7	1574.7	1569.6	1554.3	1530.1	1505.3	1494.3	1474.6	1439.5	1411.0	1386.9
7.5°	1692.4	1693.9	1683.7	1661.0	1626.6	1586.4	1576.2	1547.0	1497.2	1455.6	1419.8
10°	1794.1	1794.1	1780.2	1749.5	1706.3	1662.5	1652.2	1619.3	1563.8	1511.9	1465.1
12.5°	1871.6	1871.6	1853.3	1813.1	1766.3	1726.8	1715.1	1683.7	1631.8	1574.0	1514.8
15°	1922.0	1918.3	1897.9	1852.5	1807.2	1772.9	1764.8	1738.5	1691.0	1632.5	1566.0
17.5°	1924.2	1922.7	1903.0	1865.0	1825.5	1802.1	1797.0	1779.4	1742.2	1686.6	1616.4
20°	1881.8	1884.7	1871.6	1844.5	1825.5	1815.3	1813.1	1807.2	1780.9	1729.0	1658.8
22.5°	1836.5	1841.6	1829.2	1814.5	1813.1	1823.3	1824.8	1826.2	1809.4	1759.0	1694.6
25°	1825.5	1829.2	1816.7	1803.6	1811.6	1838.7	1844.5	1850.4	1837.2	1794.8	1737.0
27.5°	1881.1	1878.1	1854.0	1825.5	1830.6	1867.2	1875.2	1881.8	1875.2	1838.7	1789.7
30°	2038.2	2028.7	1980.5	1897.1	1870.8	1896.4	1904.5	1922.7	1922.7	1895.7	1846.7
32.5°	2301.4	2283.2	2194.7	2030.9	1939.5	1924.2	1932.2	1962.2	1977.6	1956.4	1903.0
35°	2620.9	2601.9	2475.4	2255.4	2065.3	1979.8	1977.6	2011.2	2052.1	2004.6	1935.2
37.5°	2941.9	2922.1	2770.1	2522.9	2248.8	2096.7	2083.6	2095.3	2112.8	2025.8	1979.8
40°	3262.8	3239.4	3106.3	2822.0	2473.2	2251.7	2217.4	2164.7	2157.4	2095.3	2066.0
42.5°	3580.8	3559.6	3492.4	3157.5	2742.3	2403.1	2350.4	2259.8	2287.5	2250.3	2224.7
45°	3901.8	3903.2	3831.6	3534.0	3066.9	2682.3	2611.4	2469.6	2535.4	2521.5	2536.1
47.5°	4186.1	4182.5	4156.9	3899.6	3469.7	3042.0	2950.6	2786.1	2898.7	2949.9	3061.8
50°	4461.8	4459.6	4461.0	4314.1	3937.6	3469.7	3368.8	3196.3	3450.0	3627.6	3827.9
52.5°	4856.5	4869.0	4780.5	4741.8	4506.4	3974.9	3863.7	3685.4	4101.3	4381.3	4772.5
55°	5252.8	5242.6	5173.1	5213.3	5101.5	4572.9	4456.6	4314.8	4826.6	5132.9	5720.7
57.5°	5486.0	5489.7	5560.6	5757.2	5836.2	5318.6	5213.3	5103.6	5641.7	5858.9	6564.3
60°	5695.8	5712.6	5916.6	6288.0	6502.2	6234.6	6141.0	6034.3	6389.6	6475.9	7296.9
62.5°	5761.6	5813.5	6169.6	6725.2	7151.4	7268.4	7152.1	6916.7	7101.7	7068.1	7793.3
65°	5433.4	5504.3	6142.5	6888.9	7731.1	8249.5	8175.6	7738.4	7708.5	7506.0	7874.4
67.5°	4569.2	4640.1	5459.7	6545.3	7970.9	9099.0	9025.1	8337.9	8076.9	7546.9	7260.3
70°	3343.2	3387.8	4171.5	5510.9	7489.2	9384.1	9409.7	8630.4	7945.3	6990.6	5961.2
72.5°	1926.4	2025.1	2574.1	3876.9	6118.4	8663.3	8840.9	8022.1	7113.4	5831.8	4167.9
75°	828.3	830.5	1190.2	2138.4	4143.7	6963.5	7135.3	6649.9	5586.2	4032.6	2225.4
77.5°	394.1	401.4	523.5	954.8	2281.0	4811.2	5274.7	4697.9	3572.8	1937.4	840.7
80°	255.9	261.0	320.2	473.7	1118.5	2789.8	3112.9	2710.1	1576.2	692.3	362.6
82.5°	155.0	156.5	214.2	289.5	615.6	1263.3	1489.2	1176.3	672.6	414.5	213.5
85°	94.3	95.0	130.1	179.1	373.6	436.5	448.2	444.5	394.8	271.2	114.0
87.5°	45.3	46.8	67.3	84.8	146.9	135.2	127.9	148.4	186.4	146.2	49.0
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°	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5	1371.5
2.5°	1370.0	1367.8	1362.7	1360.5	1359.1	1359.8	1359.1	1359.1	1359.8	1359.8	1359.8
5°	1376.6	1373.0	1364.9	1364.9	1369.3	1379.5	1389.0	1396.4	1404.4	1403.7	1403.7
7.5°	1405.1	1398.6	1389.0	1392.0	1402.9	1419.0	1435.8	1451.9	1468.0	1469.5	1468.7
10°	1446.8	1440.2	1430.0	1433.6	1451.2	1475.3	1496.5	1519.9	1537.5	1542.6	1541.1
12.5°	1494.3	1481.2	1472.4	1482.6	1510.4	1542.6	1563.0	1580.6	1593.0	1600.3	1597.4
15°	1542.6	1530.1	1519.9	1541.1	1574.7	1604.7	1614.9	1617.9	1620.1	1627.4	1625.9
17.5°	1589.4	1572.5	1568.9	1596.7	1628.8	1642.0	1636.2	1623.7	1614.2	1620.1	1619.3
20°	1631.0	1617.9	1616.4	1644.2	1656.6	1644.2	1619.3	1597.4	1580.6	1582.1	1581.3
22.5°	1670.5	1660.3	1661.7	1673.4	1653.7	1611.3	1570.4	1540.4	1522.1	1525.8	1528.0
25°	1714.4	1704.1	1707.8	1688.8	1623.7	1549.9	1490.7	1465.1	1457.8	1465.1	1470.2
27.5°	1771.4	1764.8	1762.6	1689.5	1570.4	1459.2	1392.0	1382.5	1389.0	1405.1	1413.2
30°	1832.8	1832.8	1821.1	1677.1	1497.2	1350.3	1291.8	1293.3	1315.9	1338.6	1346.6
32.5°	1892.0	1904.5	1867.9	1643.5	1402.9	1244.3	1199.7	1201.2	1220.9	1248.7	1256.0
35°	1941.0	1976.8	1908.1	1582.1	1291.8	1155.1	1121.5	1101.7	1102.5	1123.7	1129.5
37.5°	2008.3	2074.8	1931.5	1490.7	1173.4	1079.1	1041.1	1006.7	984.0	975.3	975.3
40°	2125.2	2223.2	1937.4	1355.4	1061.5	1006.7	952.6	911.7	867.8	828.3	821.0
42.5°	2323.4	2446.9	1925.7	1199.7	960.6	927.0	874.4	823.9	763.2	707.7	703.3
45°	2674.3	2737.9	1894.2	1038.1	870.7	850.2	799.1	744.2	679.9	630.2	626.5
47.5°	3236.5	3146.6	1852.5	894.8	788.8	783.0	743.5	679.9	615.6	581.2	577.6
50°	4057.5	3789.9	1846.7	791.0	723.0	726.0	693.8	635.3	579.0	550.5	546.1
52.5°	5045.9	4567.0	1885.4	717.9	665.3	676.2	660.2	606.1	556.3	532.2	527.8
55°	6005.1	5265.9	1908.8	660.9	611.2	631.7	633.8	588.5	543.2	519.1	516.1
57.5°	6783.7	5792.3	1805.0	609.0	564.4	595.8	611.9	578.3	536.6	518.3	515.4
60°	7325.4	6040.9	1509.7	562.9	530.0	567.3	603.9	579.0	552.7	554.9	556.3
62.5°	7497.9	5930.5	1132.4	528.6	506.6	557.8	617.0	609.0	581.9	598.8	601.7
65°	7212.1	5474.3	821.0	501.5	486.2	564.4	656.5	630.9	571.7	584.1	584.1
67.5°	6255.1	4716.2	639.0	476.7	462.8	576.8	696.0	628.7	547.6	562.2	549.0
70°	4961.8	3648.1	532.2	448.9	437.9	558.5	699.6	606.1	519.1	522.0	497.1
72.5°	3292.8	2398.7	457.7	422.6	399.9	502.2	669.7	576.8	491.3	474.5	449.6
75°	1613.5	1196.0	399.2	389.7	350.2	437.2	628.7	549.0	461.3	435.0	421.1
77.5°	625.1	508.8	340.7	348.0	304.9	385.3	574.6	509.6	421.8	386.0	375.0
80°	303.4	288.8	279.3	290.2	250.8	328.3	524.9	475.2	385.3	345.8	329.7
82.5°	188.6	178.4	214.2	225.9	193.0	299.7	497.9	446.0	339.2	286.6	273.4
85°	95.8	102.4	143.3	154.3	138.2	238.3	410.1	334.8	244.9	203.2	204.7
87.5°	36.6	49.0	75.3	81.1	73.8	125.7	225.9	195.2	157.2	106.7	98.7
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)