

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: P522671

Luminaire Tested: **GALN-SA2C-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522671
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-SA2C-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14148 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

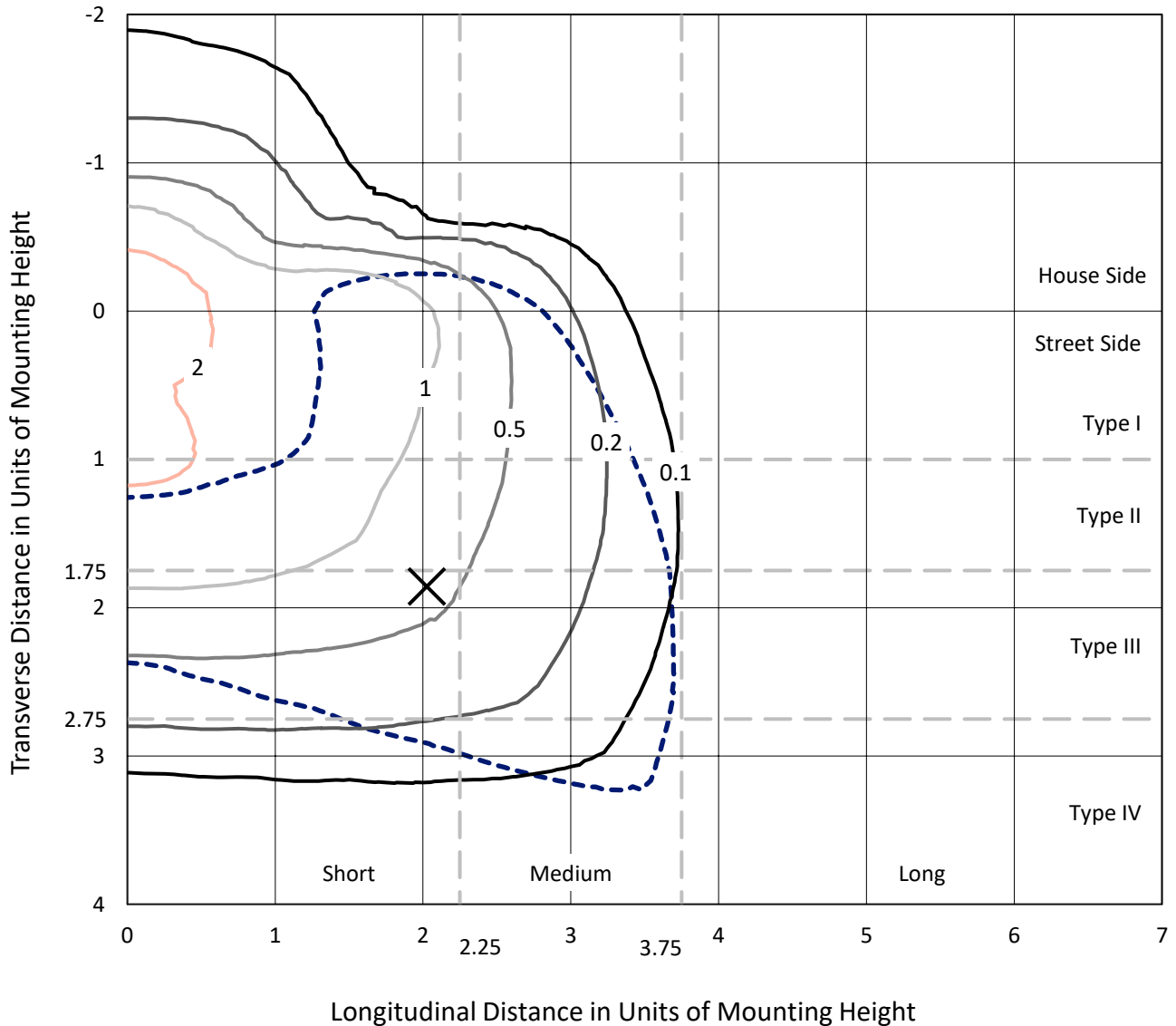
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P522671
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Iso-Footcandle Lines of Horizontal Illumination

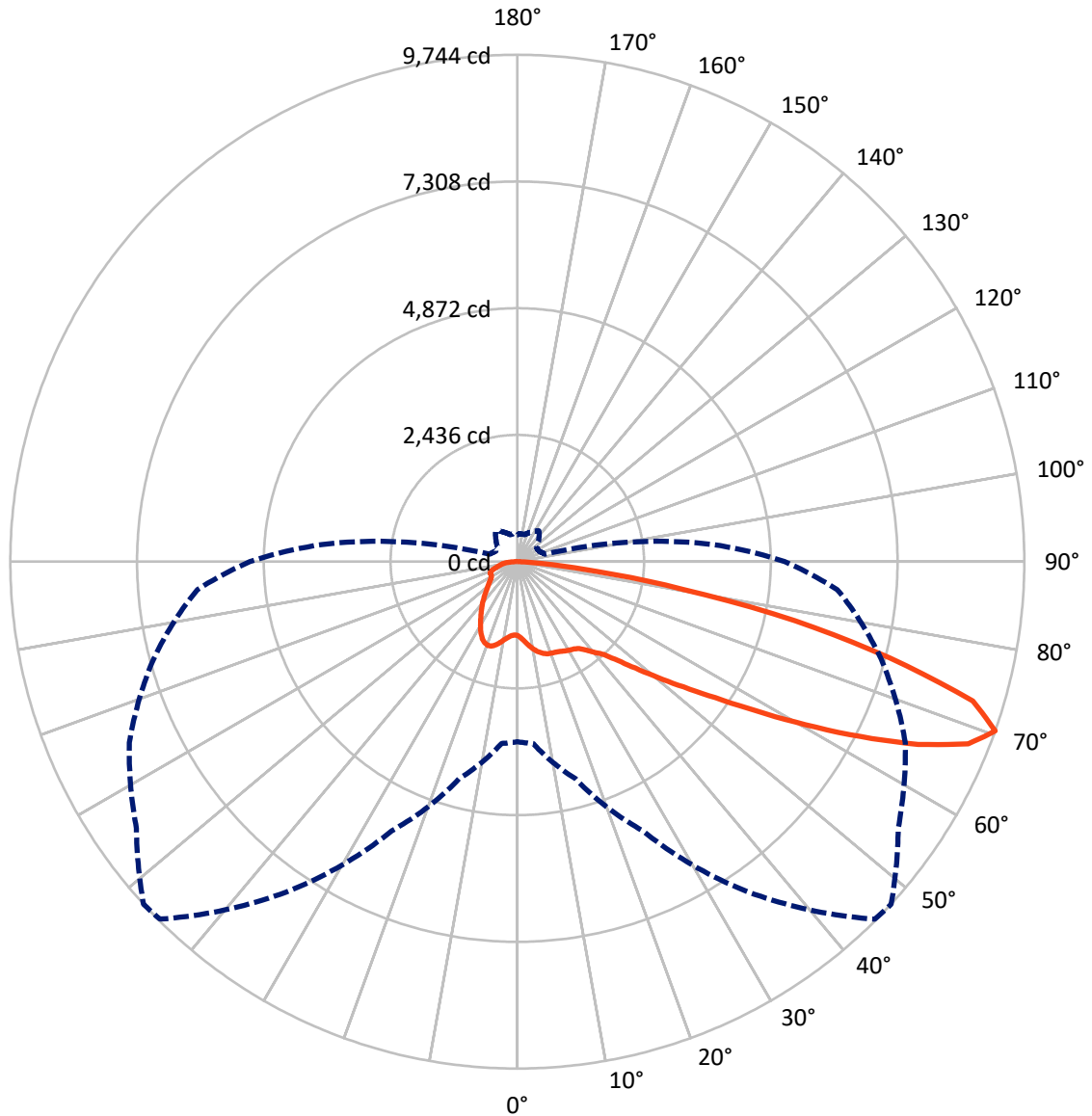
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P522671
CATALOG NUMBER: GALN-SA2C-740-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P522671

CATALOG NUMBER: GALN-SA2C-740-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3203.4	0.0	3203.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	10944.6	0.0	10944.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	14148.0	0.0	14148.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.4	1.0
10°-20°	489.4	3.5
20°-30°	813.9	5.8
30°-40°	1153.6	8.2
40°-50°	1703.0	12.0
50°-60°	2949.6	20.8
60°-70°	4166.5	29.4
70°-80°	2395.1	16.9
80°-90°	330.5	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°	14148.0	100.0
0°-180°	14148.0	100.0

Coefficient of Utilization



REPORT NUMBER: P522671

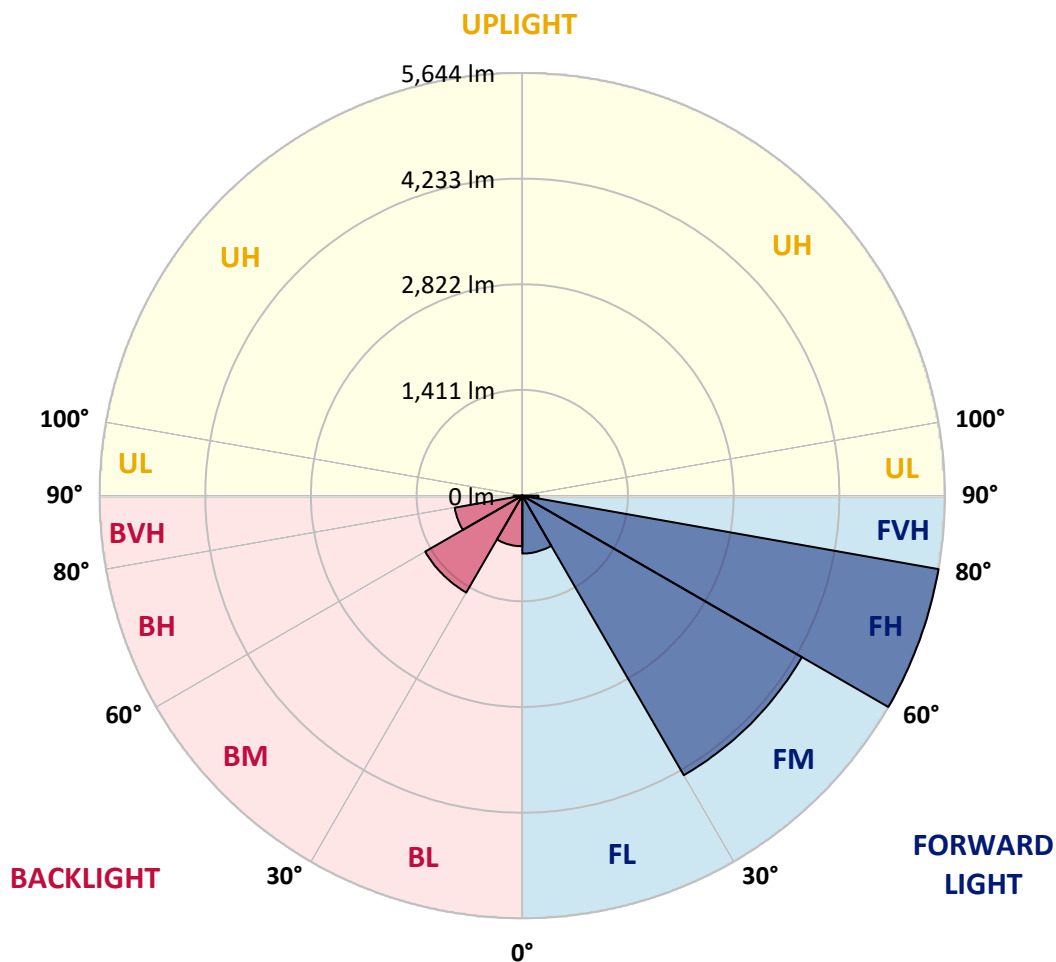
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	773.7	5.5			
FM	(30°-60°)	4310.6	30.5			
FH	(60°-80°)	5644.5	39.9			G3/7500
FVH	(80°-90°)	215.9	1.5			G2/225
BL	(0°-30°)	676.1	4.8	B2/1000		
BM	(30°-60°)	1495.6	10.6	B2/2500		
BH	(60°-80°)	917.1	6.5	B2/1000		G2/1000
BVH	(80°-90°)	114.6	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°	1420.3	1420.3	1420.3	1420.3	1420.3	1420.3	1420.3	1420.3	1420.3	1420.3	1420.3
2.5°	1511.9	1506.6	1505.8	1494.5	1488.4	1477.1	1472.5	1461.9	1449.1	1436.2	1424.1
5°	1630.8	1630.8	1625.5	1609.6	1584.6	1558.8	1547.5	1527.0	1490.7	1461.2	1436.2
7.5°	1752.6	1754.2	1743.6	1720.1	1684.5	1642.9	1632.3	1602.0	1550.5	1507.4	1470.3
10°	1857.9	1857.9	1843.5	1811.7	1767.0	1721.6	1711.0	1676.9	1619.4	1565.6	1517.2
12.5°	1938.1	1938.1	1919.2	1877.6	1829.1	1788.2	1776.1	1743.6	1689.8	1630.0	1568.7
15°	1990.4	1986.6	1965.4	1918.5	1871.5	1835.9	1827.6	1800.3	1751.1	1690.6	1621.7
17.5°	1992.6	1991.1	1970.7	1931.3	1890.4	1866.2	1860.9	1842.7	1804.1	1746.6	1673.9
20°	1948.7	1951.8	1938.1	1910.1	1890.4	1879.8	1877.6	1871.5	1844.3	1790.5	1717.8
22.5°	1901.8	1907.1	1894.2	1879.1	1877.6	1888.2	1889.7	1891.2	1873.8	1821.5	1754.9
25°	1890.4	1894.2	1881.4	1867.7	1876.1	1904.1	1910.1	1916.2	1902.6	1858.6	1798.8
27.5°	1948.0	1944.9	1920.0	1890.4	1895.7	1933.6	1941.9	1948.7	1941.9	1904.1	1853.3
30°	2110.7	2100.9	2050.9	1964.6	1937.4	1963.9	1972.2	1991.1	1991.1	1963.1	1912.4
32.5°	2383.3	2364.4	2272.8	2103.2	2008.5	1992.6	2001.0	2032.0	2047.9	2026.0	1970.7
35°	2714.1	2694.5	2563.5	2335.6	2138.8	2050.2	2047.9	2082.7	2125.1	2075.9	2004.0
37.5°	3046.5	3026.1	2868.6	2612.7	2328.8	2171.3	2157.7	2169.8	2188.0	2097.9	2050.2
40°	3378.9	3354.6	3216.8	2922.3	2561.2	2331.8	2296.2	2241.7	2234.2	2169.8	2139.5
42.5°	3708.2	3686.2	3616.6	3269.8	2839.8	2488.5	2434.0	2340.1	2368.9	2330.3	2303.8
45°	4040.6	4042.1	3967.9	3659.7	3176.0	2777.7	2704.3	2557.4	2625.6	2611.2	2626.3
47.5°	4335.1	4331.3	4304.8	4038.3	3593.1	3150.2	3055.6	2885.2	3001.8	3054.8	3170.7
50°	4620.5	4618.2	4619.7	4467.6	4077.7	3593.1	3488.6	3310.0	3572.7	3756.6	3964.1
52.5°	5029.3	5042.2	4950.6	4910.4	4666.7	4116.3	4001.2	3816.5	4247.2	4537.2	4942.2
55°	5439.6	5429.0	5357.1	5398.8	5282.9	4735.6	4615.2	4468.3	4998.3	5315.5	5924.2
57.5°	5681.2	5684.9	5758.4	5962.0	6043.8	5507.8	5398.8	5285.2	5842.4	6067.3	6797.9
60°	5898.4	5915.9	6127.1	6511.7	6733.5	6456.4	6359.5	6249.0	6616.9	6706.2	7556.5
62.5°	5966.6	6020.3	6389.0	6964.4	7405.8	7526.9	7406.5	7162.8	7354.3	7319.5	8070.5
65°	5626.6	5700.1	6361.0	7134.0	8006.2	8542.9	8466.5	8013.7	7982.7	7773.0	8154.5
67.5°	4731.8	4805.2	5653.9	6778.2	8254.5	9422.7	9346.2	8634.5	8364.3	7815.4	7518.6
70°	3462.1	3508.3	4319.9	5706.9	7755.6	9717.9	9744.4	8937.4	8228.0	7239.2	6173.3
72.5°	1994.9	2097.1	2665.7	4014.8	6336.0	8971.4	9155.4	8307.5	7366.4	6039.3	4316.1
75°	857.8	860.0	1232.5	2214.5	4291.2	7211.2	7389.1	6886.4	5784.9	4176.1	2304.6
77.5°	408.1	415.6	542.1	988.8	2362.1	4982.4	5462.4	4865.0	3699.9	2006.3	870.6
80°	265.0	270.3	331.6	490.6	1158.3	2889.0	3223.7	2806.5	1632.3	717.0	375.5
82.5°	160.5	162.0	221.8	299.8	637.5	1308.2	1542.2	1218.1	696.5	429.3	221.1
85°	97.7	98.4	134.8	185.5	386.9	452.0	464.1	460.3	408.8	280.9	118.1
87.5°	46.9	48.5	69.7	87.8	152.2	140.1	132.5	153.7	193.1	151.4	50.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P522671
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1420.3	1420.3	1420.3	1420.3	1420.3	1420.3	1420.3	1420.3	1420.3	1420.3	1420.3
2.5°	1418.8	1416.5	1411.2	1408.9	1407.4	1408.2	1407.4	1407.4	1408.2	1408.2	1408.2
5°	1425.6	1421.8	1413.5	1413.5	1418.0	1428.6	1438.5	1446.0	1454.4	1453.6	1453.6
7.5°	1455.1	1448.3	1438.5	1441.5	1452.8	1469.5	1486.9	1503.6	1520.2	1521.7	1521.0
10°	1498.3	1491.5	1480.9	1484.6	1502.8	1527.8	1549.8	1574.0	1592.1	1597.4	1595.9
12.5°	1547.5	1533.9	1524.8	1535.4	1564.1	1597.4	1618.6	1636.8	1649.7	1657.3	1654.2
15°	1597.4	1584.6	1574.0	1595.9	1630.8	1661.8	1672.4	1675.4	1677.7	1685.3	1683.8
17.5°	1645.9	1628.5	1624.7	1653.5	1686.8	1700.4	1694.4	1681.5	1671.6	1677.7	1676.9
20°	1689.1	1675.4	1673.9	1702.7	1715.6	1702.7	1676.9	1654.2	1636.8	1638.3	1637.6
22.5°	1729.9	1719.3	1720.9	1733.0	1712.5	1668.6	1626.2	1595.2	1576.2	1580.0	1582.3
25°	1775.4	1764.8	1768.5	1748.9	1681.5	1605.0	1543.7	1517.2	1509.6	1517.2	1522.5
27.5°	1834.4	1827.6	1825.3	1749.6	1626.2	1511.1	1441.5	1431.6	1438.5	1455.1	1463.4
30°	1898.0	1898.0	1885.9	1736.7	1550.5	1398.3	1337.8	1339.3	1362.8	1386.2	1394.5
32.5°	1959.3	1972.2	1934.3	1701.9	1452.8	1288.6	1242.4	1243.9	1264.3	1293.1	1300.7
35°	2010.1	2047.2	1976.0	1638.3	1337.8	1196.2	1161.4	1140.9	1141.7	1163.6	1169.7
37.5°	2079.7	2148.6	2000.2	1543.7	1215.1	1117.5	1078.1	1042.5	1019.0	1009.9	1009.9
40°	2200.8	2302.3	2006.3	1403.6	1099.3	1042.5	986.5	944.1	898.7	857.8	850.2
42.5°	2406.0	2534.0	1994.2	1242.4	994.8	960.0	905.5	853.2	790.4	732.9	728.3
45°	2769.4	2835.3	1961.6	1075.1	901.7	880.5	827.5	770.7	704.1	652.6	648.8
47.5°	3351.6	3258.5	1918.5	926.7	816.9	810.8	770.0	704.1	637.5	601.9	598.1
50°	4201.8	3924.7	1912.4	819.2	748.8	751.8	718.5	657.9	599.6	570.1	565.5
52.5°	5225.4	4729.5	1952.5	743.5	688.9	700.3	683.6	627.6	576.1	551.2	546.6
55°	6218.7	5453.3	1976.7	684.4	632.9	654.1	656.4	609.5	562.5	537.5	534.5
57.5°	7025.0	5998.4	1869.2	630.7	584.5	617.0	633.7	598.9	555.7	536.8	533.7
60°	7586.0	6255.8	1563.4	583.0	548.9	587.5	625.4	599.6	572.4	574.6	576.1
62.5°	7764.7	6141.5	1172.7	547.4	524.7	577.7	639.0	630.7	602.6	620.1	623.1
65°	7468.6	5669.0	850.2	519.4	503.5	584.5	679.9	653.4	592.0	604.9	604.9
67.5°	6477.6	4883.9	661.7	493.6	479.2	597.3	720.7	651.1	567.1	582.2	568.6
70°	5138.3	3777.8	551.2	464.8	453.5	578.4	724.5	627.6	537.5	540.6	514.8
72.5°	3409.9	2484.0	473.9	437.6	414.1	520.1	693.5	597.3	508.8	491.3	465.6
75°	1670.9	1238.6	413.4	403.5	362.6	452.7	651.1	568.6	477.7	450.5	436.1
77.5°	647.3	526.9	352.8	360.4	315.7	399.0	595.1	527.7	436.8	399.7	388.4
80°	314.2	299.0	289.2	300.6	259.7	339.9	543.6	492.1	399.0	358.1	341.4
82.5°	195.3	184.7	221.8	233.9	199.9	310.4	515.6	461.8	351.3	296.8	283.1
85°	99.2	106.0	148.4	159.7	143.1	246.8	424.7	346.7	253.6	210.5	212.0
87.5°	37.9	50.7	78.0	84.0	76.5	130.2	233.9	202.1	162.8	110.5	102.2
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)