

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: P458713

Luminaire Tested: **GALN-SA2C-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458713
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-SA2C-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA 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: 13141 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

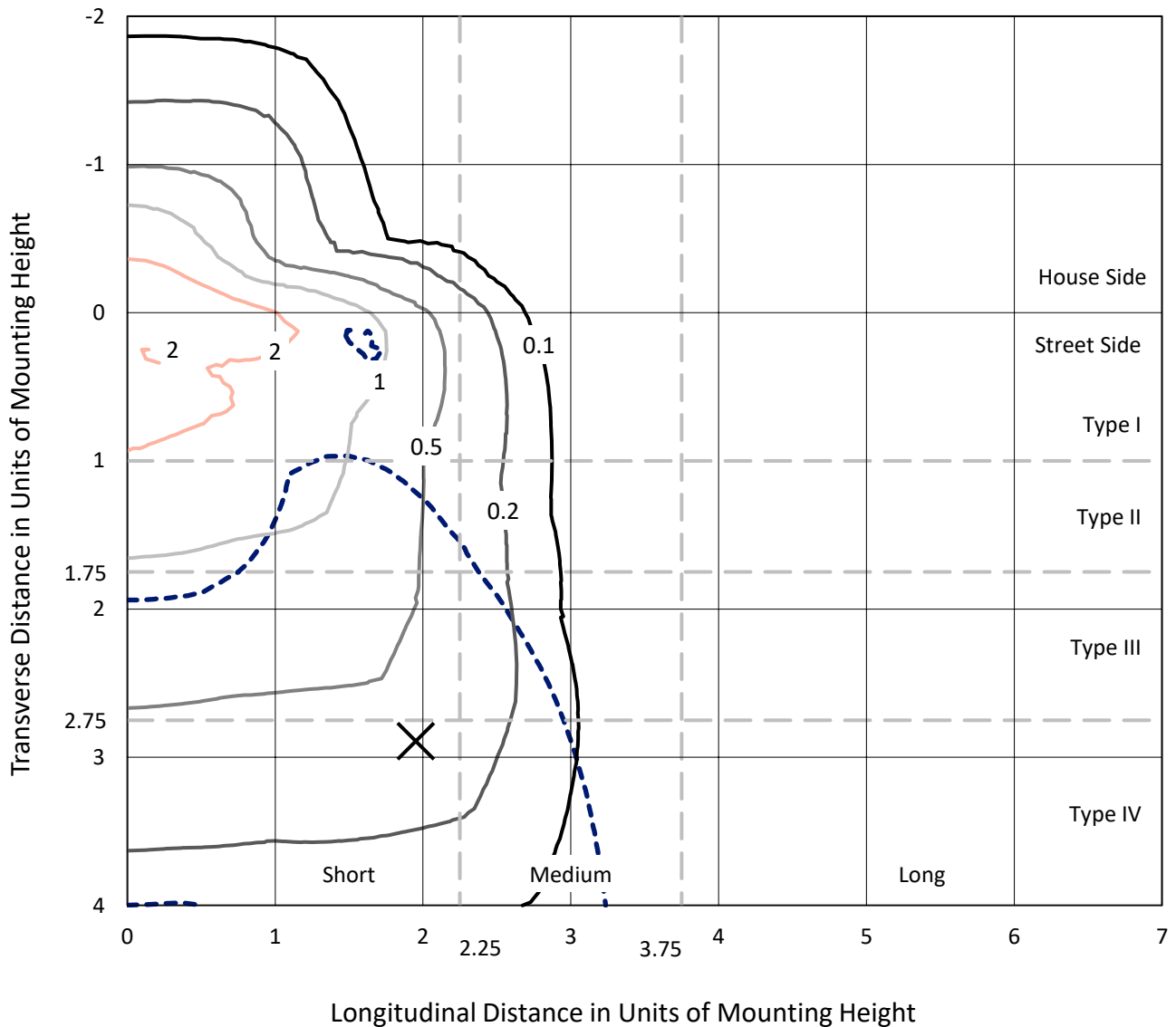
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458713
 CATALOG NUMBER: GALN-SA2C-735-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

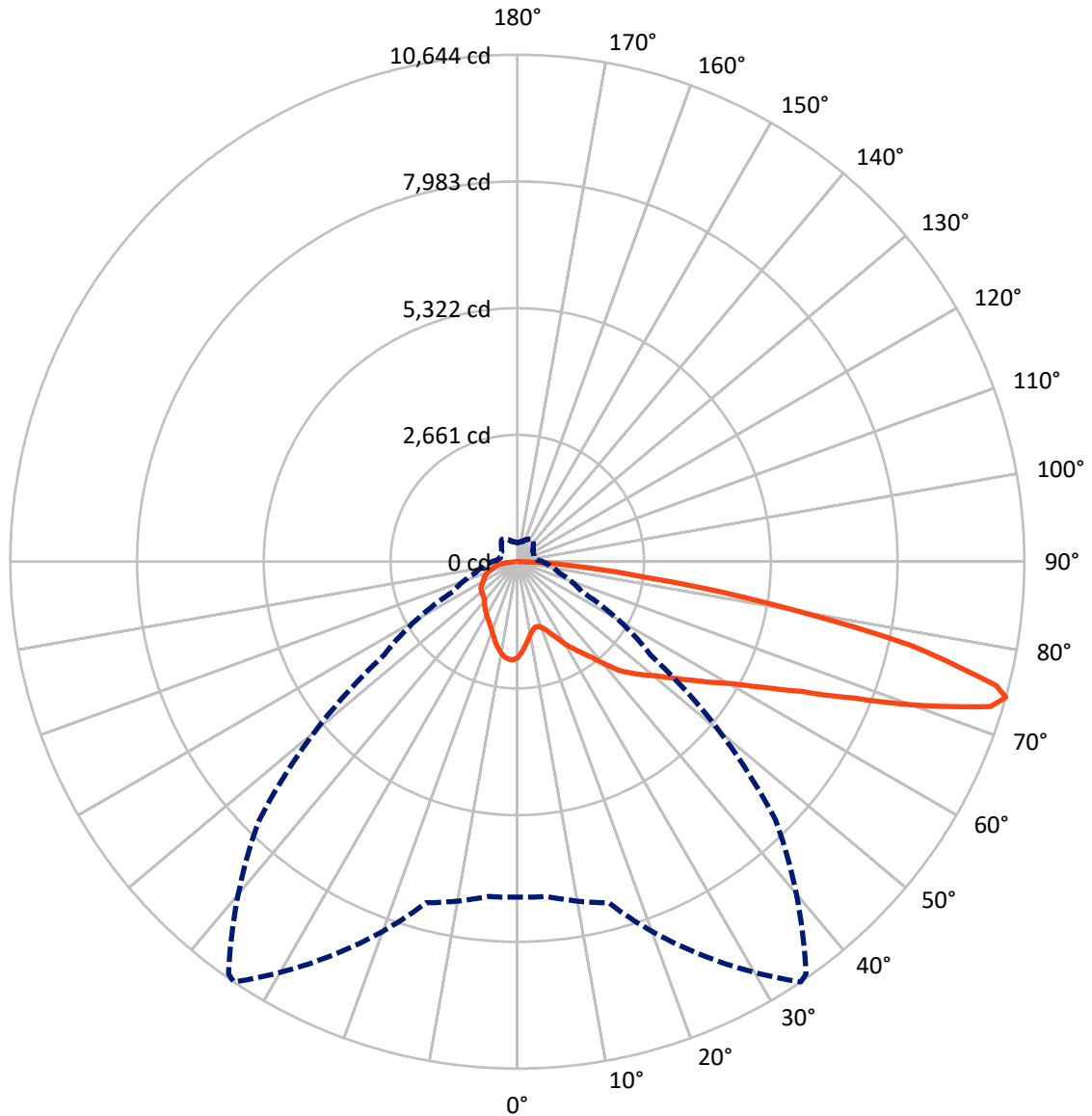
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P458713
CATALOG NUMBER: GALN-SA2C-735-U-T4FT

Luminous Intensity Polar Plot



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

REPORT NUMBER: P458713

CATALOG NUMBER: GALN-SA2C-735-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2796.5	0.0	2796.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	10344.5	0.0	10344.5
	% Fixture	78.7	0.0	78.7
Total	Lumens	13141.0	0.0	13141.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.5	1.4
10°-20°	499.5	3.8
20°-30°	823.6	6.3
30°-40°	1233.6	9.4
40°-50°	1793.3	13.6
50°-60°	2504.8	19.1
60°-70°	3135.9	23.9
70°-80°	2593.1	19.7
80°-90°	374.7	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°	13141.0	100.0
0°-180°	13141.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458713

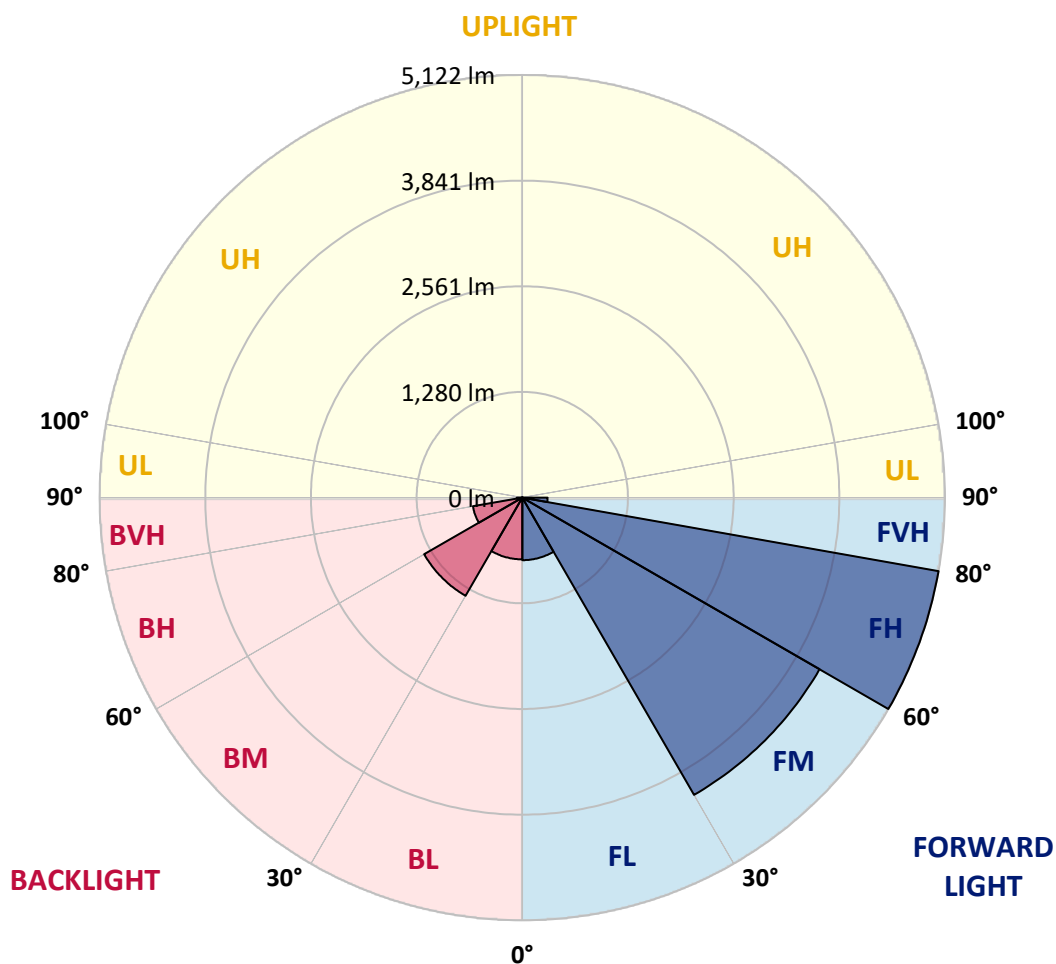
CATALOG NUMBER: GALN-SA2C-735-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	757.5	5.8			
FM	(30°-60°)	4158.4	31.6			
FH	(60°-80°)	5121.7	39.0			G3/7500
FVH	(80°-90°)	307.0	2.3			G3/500
BL	(0°-30°)	748.0	5.7	B2/1000		
BM	(30°-60°)	1373.4	10.5	B2/2500		
BH	(60°-80°)	607.4	4.6	B2/1000		G2/1000
BVH	(80°-90°)	67.7	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





REPORT NUMBER: P458713

CATALOG NUMBER: GALN-SA2C-735-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4
2.5°	1854.2	1863.7	1868.8	1887.0	1891.3	1897.2	1912.5	1932.8	1959.1	1982.3	2002.7
5°	1699.9	1714.4	1723.2	1739.2	1770.5	1773.4	1814.2	1860.8	1913.9	1963.4	2004.2
7.5°	1553.6	1569.6	1576.9	1606.0	1647.5	1654.0	1713.7	1787.2	1876.1	1951.0	2013.7
10°	1443.6	1451.6	1467.7	1489.5	1539.0	1543.4	1621.3	1719.5	1834.6	1945.2	2029.7
12.5°	1383.9	1388.3	1391.9	1415.2	1464.0	1470.6	1552.1	1663.5	1801.8	1949.6	2055.9
15°	1392.7	1394.1	1378.1	1382.5	1421.8	1431.3	1512.1	1626.4	1781.4	1960.5	2095.2
17.5°	1466.2	1461.1	1421.8	1401.4	1429.1	1433.4	1504.1	1611.8	1772.0	1980.9	2136.0
20°	1581.9	1574.7	1507.0	1461.8	1477.8	1481.5	1530.3	1622.7	1781.4	2014.4	2199.3
22.5°	1726.1	1723.2	1620.5	1565.9	1565.2	1590.7	1662.0	1809.8	2060.2	2265.5	
25°	1927.7	1912.5	1778.5	1707.9	1688.2	1686.8	1683.9	1726.8	1846.2	2109.0	2344.2
27.5°	2134.5	2108.3	1988.9	1880.4	1838.2	1833.1	1814.2	1818.5	1892.8	2164.3	2433.7
30°	2320.1	2303.4	2191.3	2071.2	2020.9	2009.3	1956.9	1932.8	1970.7	2264.1	2576.4
32.5°	2462.1	2451.9	2364.5	2255.3	2181.1	2178.9	2102.5	2082.8	2092.3	2384.9	2739.5
35°	2577.1	2580.8	2536.4	2441.7	2356.5	2344.2	2293.2	2268.5	2240.8	2559.7	2944.8
37.5°	2734.4	2742.4	2739.5	2657.9	2553.8	2556.7	2545.1	2504.3	2430.8	2754.8	3172.6
40°	2907.6	2913.5	2912.7	2881.4	2826.8	2829.7	2825.4	2778.8	2668.9	3003.0	3426.0
42.5°	3147.1	3119.5	3047.4	3078.7	3110.7	3124.6	3154.4	3110.0	2959.3	3268.0	3664.0
45°	3415.1	3362.6	3199.6	3214.1	3332.8	3359.0	3523.5	3462.4	3274.5	3572.3	3944.3
47.5°	3583.9	3532.3	3394.7	3391.8	3549.0	3574.5	3865.7	3843.1	3561.4	3900.6	4286.5
50°	3734.6	3727.4	3572.3	3609.4	3763.0	3800.9	4238.4	4217.3	3847.5	4287.9	4659.2
52.5°	3958.1	3899.2	3775.4	3851.9	4055.0	4104.5	4608.2	4546.4	4110.3	4630.1	5021.0
55°	4058.6	4044.8	4037.5	4103.7	4382.6	4418.2	4967.9	4825.9	4334.5	4919.8	5296.2
57.5°	4327.2	4301.8	4373.8	4419.0	4768.4	4823.0	5343.5	5117.8	4531.1	5149.9	5430.2
60°	4675.2	4661.4	4727.6	4809.2	5199.4	5282.4	5771.6	5366.8	4689.1	5265.6	5356.6
62.5°	5195.0	5193.6	5181.2	5355.9	5810.2	5886.6	6263.0	5609.2	4713.8	5179.0	4976.6
65°	5940.5	5914.3	5806.5	5997.3	6570.2	6659.8	6774.8	5744.7	4564.6	4734.2	4190.4
67.5°	6720.2	6718.7	6631.4	6878.9	7661.5	7753.9	7414.7	5714.8	4150.3	3835.1	2976.1
70°	7366.6	7335.3	7446.7	8106.3	9055.6	9162.6	7974.5	5363.2	3305.9	2532.7	1768.3
72.5°	7521.7	7523.2	7754.7	9052.7	10394.4	10411.1	8176.2	4346.9	2212.4	1397.0	884.5
74°	7044.1	7056.5	7415.4	9100.0	10644.1	10568.4	7660.8	3416.5	1496.0	912.2	637.7
75°	6429.7	6351.8	6870.9	8784.8	10384.9	10303.4	7057.2	2741.7	1141.5	728.7	558.4
77.5°	3437.6	3517.0	4317.8	6555.6	8436.8	8342.9	4785.2	1314.8	616.6	507.4	401.9
80°	1223.8	1349.7	1897.2	3430.3	5409.0	5438.2	2283.7	602.8	433.9	374.2	283.9
82.5°	499.4	513.2	814.6	1522.3	2746.7	2773.0	932.6	358.2	310.1	257.7	169.6
85°	195.1	200.9	360.4	684.3	1172.1	1248.5	322.5	189.3	190.7	147.8	86.6
87.5°	65.5	74.3	147.8	227.9	398.2	390.2	93.9	56.1	68.4	64.1	26.9
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: P458713
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4	2006.4
2.5°	2012.9	2026.8	2036.2	2046.4	2055.9	2058.8	2056.6	2063.2	2063.9	2064.6	2065.3
5°	2024.6	2043.5	2061.7	2071.9	2076.3	2072.6	2060.2	2053.7	2047.9	2043.5	2045.0
7.5°	2040.6	2067.5	2084.3	2088.6	2077.0	2060.2	2029.7	2005.6	1990.4	1980.2	1979.4
10°	2065.3	2091.5	2105.4	2093.0	2061.0	2020.2	1972.2	1927.0	1892.8	1882.6	1881.9
12.5°	2096.6	2126.5	2125.8	2089.4	2033.3	1960.5	1882.6	1830.2	1783.6	1760.3	1769.8
15°	2137.4	2160.0	2138.9	2073.3	1984.5	1884.8	1788.7	1717.4	1664.9	1640.2	1641.6
17.5°	2184.7	2204.4	2148.3	2045.0	1916.1	1788.0	1676.6	1608.9	1567.4	1549.2	1547.7
20°	2243.7	2249.5	2148.3	1995.5	1828.0	1675.1	1568.8	1521.5	1498.2	1488.8	1491.7
22.5°	2307.0	2295.4	2136.7	1925.6	1712.3	1557.2	1485.9	1464.7	1453.1	1451.6	1453.1
25°	2378.4	2345.6	2112.7	1830.9	1591.4	1455.3	1413.8	1417.4	1419.6	1419.6	1424.7
27.5°	2465.7	2400.2	2072.6	1711.5	1450.2	1360.6	1349.0	1374.5	1386.1	1388.3	1391.9
30°	2580.8	2459.9	2006.4	1562.3	1330.1	1275.5	1295.8	1330.1	1343.2	1351.2	1349.7
32.5°	2717.6	2525.4	1916.8	1413.0	1233.2	1215.8	1240.5	1275.5	1290.0	1294.4	1288.6
35°	2878.5	2599.7	1798.9	1273.3	1148.8	1159.0	1188.1	1199.0	1212.1	1212.1	1215.0
37.5°	3051.8	2659.4	1654.7	1145.1	1083.3	1120.4	1141.5	1131.3	1125.5	1118.2	1121.8
40°	3228.0	2703.8	1467.7	1018.5	1017.7	1080.4	1086.2	1057.1	1033.8	1026.5	1022.8
42.5°	3381.6	2731.5	1298.8	920.2	955.9	1041.0	1045.4	998.8	961.7	939.8	932.6
45°	3562.8	2763.5	1133.5	838.7	898.4	1009.7	1020.7	958.0	903.4	857.6	845.9
47.5°	3811.1	2836.3	1003.2	775.3	856.9	990.1	1005.4	924.6	852.5	792.8	783.3
50°	4091.4	2936.0	902.0	732.4	824.8	972.6	991.5	890.3	805.2	738.9	731.6
52.5°	4348.4	2989.9	814.6	693.8	793.5	940.6	973.3	865.6	758.6	685.0	678.5
55°	4488.9	2902.5	728.7	655.9	750.6	899.1	947.9	831.4	713.4	656.7	647.2
57.5°	4507.8	2722.0	650.8	615.2	705.4	848.1	900.5	789.9	684.3	637.0	629.0
60°	4361.5	2452.6	590.4	581.7	659.6	790.6	847.4	753.5	654.5	615.2	607.2
62.5°	3997.5	2160.0	548.2	551.1	613.0	730.2	808.1	718.5	626.1	591.1	583.9
65°	3371.4	1782.9	507.4	519.8	571.5	682.9	772.4	689.4	597.7	572.9	566.4
67.5°	2342.0	1287.1	473.9	487.0	532.2	634.8	730.9	658.1	565.7	552.6	542.4
70°	1296.6	792.1	434.6	449.9	491.4	580.9	684.3	610.8	519.1	513.2	498.7
72.5°	681.4	504.5	390.2	407.0	436.1	511.8	613.0	559.1	473.2	448.4	429.5
74°	532.2	413.5	360.4	377.8	397.5	471.0	570.8	522.0	440.4	411.3	396.8
75°	463.7	368.4	334.9	357.4	374.9	443.4	538.0	495.8	422.2	394.6	381.5
77.5°	327.6	275.9	273.7	300.7	310.1	388.8	484.8	451.4	376.4	347.3	334.9
80°	230.0	206.8	216.9	233.7	246.8	343.6	449.9	390.2	308.7	274.5	270.1
82.5°	150.0	135.4	155.1	170.4	174.7	253.3	363.3	296.3	225.0	182.7	169.6
85°	69.2	67.7	88.8	86.6	85.9	123.8	215.5	173.3	129.6	96.8	91.0
87.5°	17.5	16.7	21.8	18.2	21.8	18.9	19.7	5.1	0.7	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)