

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: STREETWORKS

Report Number: P382933

Luminaire Tested: **GAN-SA2D-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14684.9 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

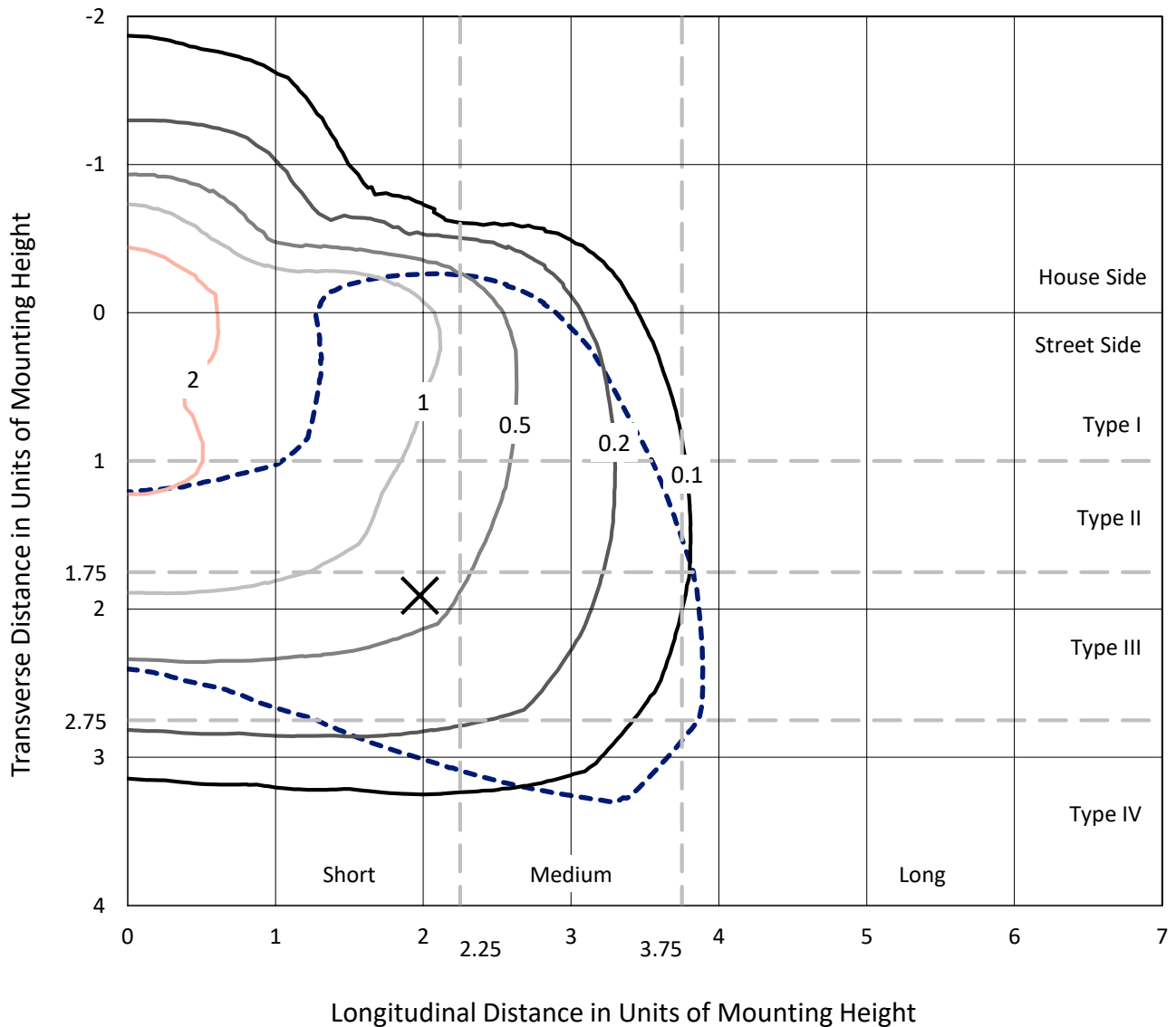
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

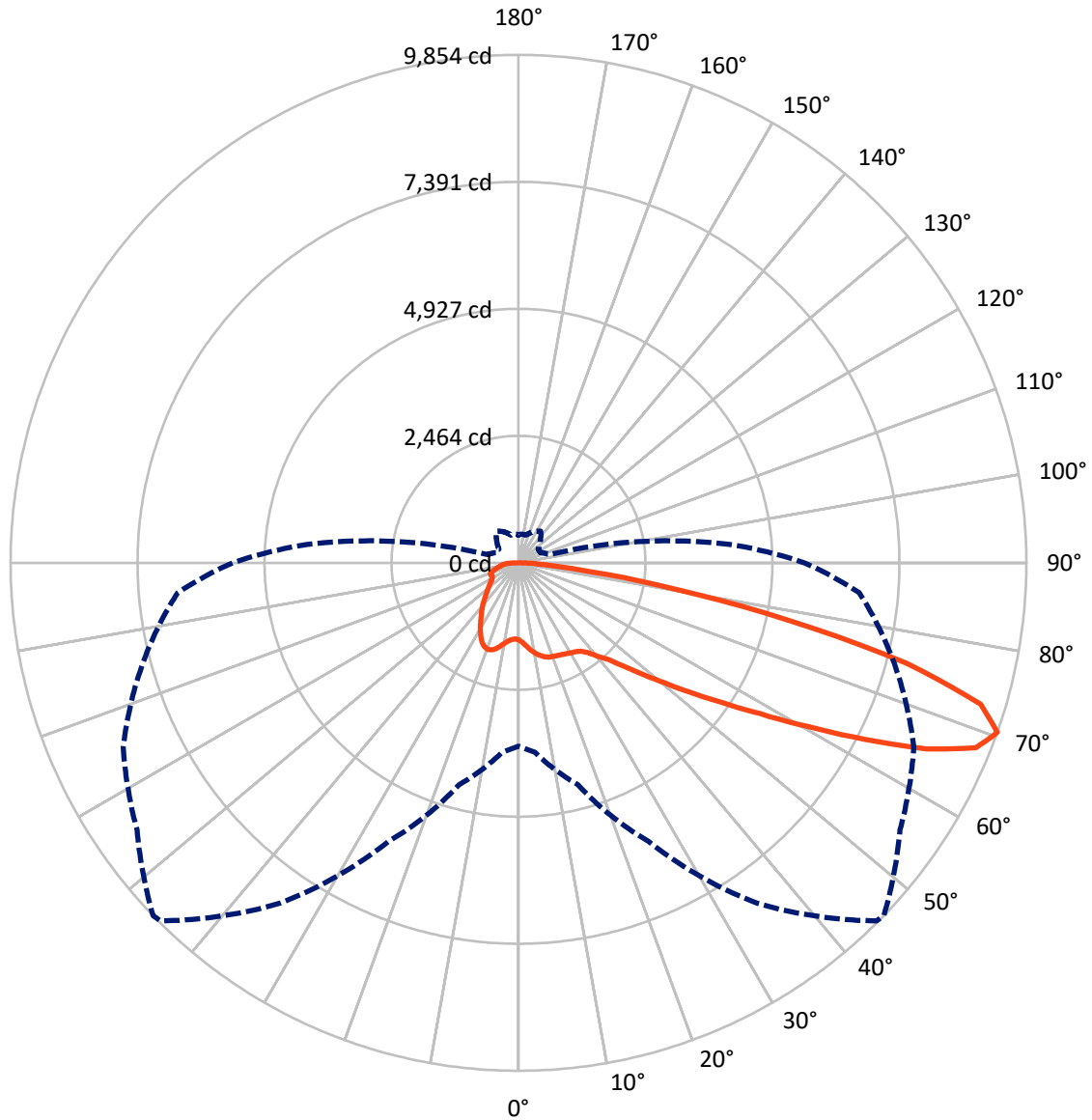
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3365.7	0.0	3365.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	11319.2	0.0	11319.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	14684.9	0.0	14684.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.5	1.0
10°-20°	508.1	3.5
20°-30°	847.3	5.8
30°-40°	1202.3	8.2
40°-50°	1768.5	12.0
50°-60°	2995.0	20.4
60°-70°	4251.4	29.0
70°-80°	2582.8	17.6
80°-90°	376.9	2.6
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°	14684.9	100.0
0°-180°	14684.9	100.0

Coefficient of Utilization

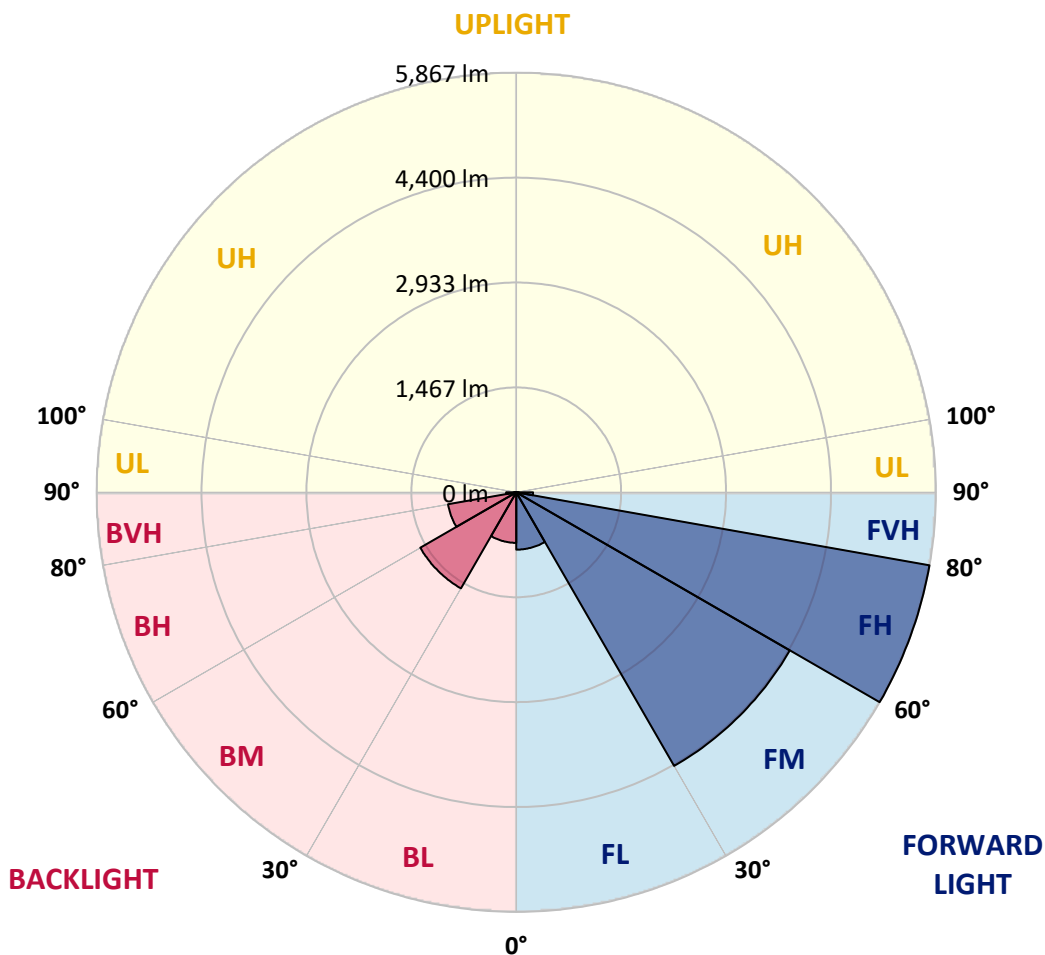


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	801.3	5.5			
FM (30°-60°)	4416.6	30.1			
FH (60°-80°)	5866.5	39.9			G3/7500
FVH (80°-90°)	234.8	1.6			G3/500
BL (0°-30°)	706.6	4.8	B2/1000		
BM (30°-60°)	1549.3	10.6	B2/2500		
BH (60°-80°)	967.6	6.6	B2/1000		G2/1000
BVH (80°-90°)	142.1	1.0			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°	46°	55°	65°	75°	85°
0°	1496.1	1496.1	1496.1	1496.1	1496.1	1496.1	1496.1	1496.1	1496.1	1496.1	1496.1
2.5°	1571.0	1572.0	1574.0	1569.0	1554.9	1550.8	1549.3	1534.8	1525.2	1511.2	1499.1
5°	1696.6	1697.7	1694.6	1680.5	1649.4	1626.3	1624.2	1591.1	1560.9	1528.8	1504.6
7.5°	1827.8	1829.3	1819.8	1793.1	1749.4	1709.2	1706.7	1661.4	1615.7	1567.0	1530.8
10°	1943.9	1937.8	1922.2	1885.1	1833.3	1784.1	1782.1	1734.8	1682.1	1623.2	1575.0
12.5°	2021.3	2016.2	1996.1	1950.9	1894.1	1848.9	1844.8	1801.1	1749.9	1685.5	1627.8
15°	2064.0	2067.5	2040.4	1989.1	1933.8	1895.6	1892.2	1861.0	1815.2	1750.4	1684.1
17.5°	2069.5	2072.5	2046.4	1995.7	1950.4	1924.3	1922.8	1902.1	1869.0	1806.6	1737.3
20°	2037.4	2039.3	2017.7	1976.1	1946.4	1938.4	1937.8	1928.8	1904.2	1848.9	1781.6
22.5°	1990.6	1992.1	1976.6	1946.4	1936.3	1948.9	1952.4	1948.9	1931.3	1879.6	1816.2
25°	1979.1	1978.0	1961.9	1931.3	1939.9	1966.5	1971.1	1972.6	1960.4	1915.3	1860.5
27.5°	2034.9	2031.3	2000.7	1951.4	1956.9	1989.1	1995.2	2009.7	2002.2	1962.5	1910.7
30°	2196.1	2190.2	2127.3	2027.8	2000.7	2017.3	2024.8	2047.9	2049.4	2016.2	1977.6
32.5°	2468.5	2461.1	2348.4	2170.5	2074.6	2045.9	2052.9	2087.6	2106.2	2080.6	2038.9
35°	2812.8	2804.2	2656.5	2413.3	2198.2	2100.6	2105.7	2133.3	2170.5	2134.4	2079.0
37.5°	3171.6	3151.1	3008.8	2698.7	2394.6	2217.7	2217.7	2221.3	2238.9	2163.5	2126.4
40°	3528.4	3507.8	3379.2	3034.4	2648.9	2402.2	2390.6	2312.8	2298.7	2233.9	2221.3
42.5°	3860.1	3854.1	3778.2	3413.8	2947.5	2583.6	2567.5	2435.3	2438.4	2398.2	2398.7
45°	4212.9	4212.9	4151.1	3796.8	3295.3	2875.1	2859.0	2664.5	2694.7	2676.1	2720.9
47.5°	4500.9	4509.9	4501.4	4195.8	3699.8	3245.5	3216.4	2982.2	3066.6	3130.4	3260.6
50°	4794.9	4808.9	4810.4	4633.5	4188.8	3685.8	3652.6	3403.8	3592.2	3775.2	4031.0
52.5°	5221.5	5253.2	5127.1	5070.3	4787.9	4208.4	4175.8	3946.0	4260.6	4517.4	4958.2
55°	5617.0	5589.4	5499.5	5534.6	5429.1	4803.4	4778.8	4577.3	5005.5	5339.2	5911.5
57.5°	5831.1	5829.2	5919.6	6070.3	6120.6	5537.1	5516.5	5320.5	5845.2	6096.0	6806.6
60°	6082.4	6085.9	6310.1	6652.3	6859.4	6450.8	6441.7	6293.0	6660.8	6802.6	7508.6
62.5°	6117.6	6180.9	6566.9	7155.9	7550.8	7518.2	7538.4	7168.9	7390.5	7366.5	8032.8
65°	5713.1	5796.5	6495.0	7308.2	8238.4	8685.7	8704.3	8050.0	7966.0	7848.4	8220.3
67.5°	4883.8	5007.4	5766.3	6977.0	8465.1	9548.5	9574.6	8732.9	8443.5	8011.7	7769.0
70°	3554.0	3691.3	4455.1	5958.8	8061.0	9824.5	9854.1	9034.9	8461.5	7546.8	6632.2
72.5°	2146.9	2254.4	2884.2	4386.8	6803.6	9321.9	9374.6	8652.0	7725.2	6392.5	4897.4
75°	942.8	1013.2	1394.6	2527.8	4870.8	7712.7	7778.5	7405.6	6277.0	4645.6	2894.7
77.5°	401.5	421.6	571.9	1098.1	2753.5	5270.3	5360.8	5411.0	4258.7	2527.8	1223.2
80°	250.3	258.3	323.6	497.0	1288.5	2960.1	3057.5	3183.7	2114.7	929.2	427.2
82.5°	152.3	161.3	215.1	300.5	670.9	1341.8	1388.6	1477.5	820.7	401.5	221.1
85°	91.5	98.0	131.6	189.9	381.9	527.7	527.2	583.0	386.5	258.3	116.6
87.5°	43.7	48.7	70.3	98.5	192.5	198.0	185.5	210.1	234.7	169.4	58.8
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°	1496.1	1496.1	1496.1	1496.1	1496.1	1496.1	1496.1	1496.1	1496.1	1496.1	1496.1
2.5°	1495.1	1493.1	1486.6	1481.5	1480.5	1477.5	1475.0	1476.5	1478.6	1479.0	1479.0
5°	1494.6	1489.1	1480.5	1477.0	1481.5	1487.6	1495.1	1505.2	1511.2	1515.7	1518.7
7.5°	1518.7	1508.2	1498.6	1496.6	1505.7	1521.8	1538.8	1560.0	1574.5	1584.6	1586.6
10°	1558.9	1545.9	1536.3	1538.4	1554.4	1577.5	1601.6	1628.8	1650.9	1664.5	1665.4
12.5°	1605.1	1592.6	1583.5	1592.1	1618.8	1646.9	1672.0	1695.6	1715.7	1729.3	1729.3
15°	1658.4	1649.4	1638.9	1658.4	1694.6	1719.7	1730.3	1741.9	1752.9	1763.0	1761.0
17.5°	1709.7	1701.2	1695.6	1718.7	1756.4	1768.0	1761.0	1752.4	1752.4	1757.9	1758.9
20°	1753.9	1746.4	1749.9	1772.5	1792.1	1780.1	1753.9	1726.8	1715.7	1718.7	1721.8
22.5°	1792.6	1789.1	1799.7	1810.2	1796.1	1753.9	1705.7	1669.0	1655.5	1654.4	1655.5
25°	1837.9	1837.4	1850.4	1831.3	1769.0	1691.1	1626.3	1590.6	1583.1	1589.0	1599.1
27.5°	1894.1	1899.6	1906.2	1836.4	1713.7	1596.1	1530.3	1505.7	1513.2	1527.7	1537.3
30°	1966.0	1981.0	1967.0	1823.8	1634.3	1487.6	1424.7	1417.7	1438.3	1458.9	1469.0
32.5°	2035.8	2059.5	2025.3	1791.1	1531.7	1372.4	1323.7	1321.7	1346.8	1367.0	1381.0
35°	2092.2	2138.8	2069.1	1726.3	1413.2	1266.4	1230.8	1217.2	1226.2	1249.9	1266.0
37.5°	2165.5	2243.4	2099.1	1627.2	1284.5	1179.0	1137.3	1106.1	1098.1	1107.6	1115.7
40°	2299.7	2402.7	2113.2	1489.1	1158.8	1091.6	1049.3	1003.6	972.0	948.8	949.3
42.5°	2518.8	2610.3	2104.2	1321.2	1042.8	1006.1	958.4	905.6	854.3	802.1	798.1
45°	2874.6	2918.8	2077.1	1143.3	940.8	916.6	871.9	819.2	750.8	691.5	686.0
47.5°	3444.0	3346.0	2034.9	988.0	850.8	840.8	799.5	738.7	666.4	618.6	614.6
50°	4220.5	3962.6	2014.3	864.4	771.4	774.4	740.8	676.4	608.1	572.9	568.9
52.5°	5149.2	4680.8	2054.0	768.9	707.6	718.1	693.0	632.7	575.4	547.7	543.7
55°	6112.5	5424.6	2096.6	699.6	647.3	667.9	659.3	609.6	557.8	532.2	528.7
57.5°	6937.2	5979.9	2011.2	643.2	593.5	625.7	633.2	595.0	548.8	525.7	521.7
60°	7456.4	6203.5	1787.1	590.5	550.8	592.0	618.2	591.0	552.3	550.3	547.3
62.5°	7702.7	6183.9	1450.9	548.8	524.2	577.5	629.2	613.6	592.6	610.6	612.1
65°	7592.1	5888.4	1080.5	521.1	505.1	583.0	662.3	656.4	604.1	622.2	624.7
67.5°	6864.4	5183.3	800.1	497.0	483.9	598.5	722.7	670.4	581.5	594.5	586.5
70°	5548.2	4109.4	617.2	469.9	462.3	596.6	749.8	661.9	556.8	559.9	538.2
72.5°	3826.0	2802.3	502.0	444.7	431.2	543.7	730.7	640.7	536.2	513.1	484.5
75°	2080.6	1504.2	426.6	418.6	376.4	477.4	695.5	625.7	517.7	487.0	470.9
77.5°	818.6	624.1	370.4	383.0	329.2	421.6	656.4	597.0	492.0	451.8	443.8
80°	334.2	318.6	307.0	331.2	282.9	368.9	609.1	563.4	461.3	419.1	403.1
82.5°	189.5	198.0	238.8	261.3	229.6	339.7	586.5	536.2	424.7	375.4	356.3
85°	97.0	116.1	166.4	187.4	168.9	289.0	540.2	469.4	340.8	287.5	289.0
87.5°	46.8	64.8	105.1	117.6	109.5	209.0	403.5	340.2	265.3	210.1	203.5
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)