

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: P319046

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319046
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-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: 14371 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

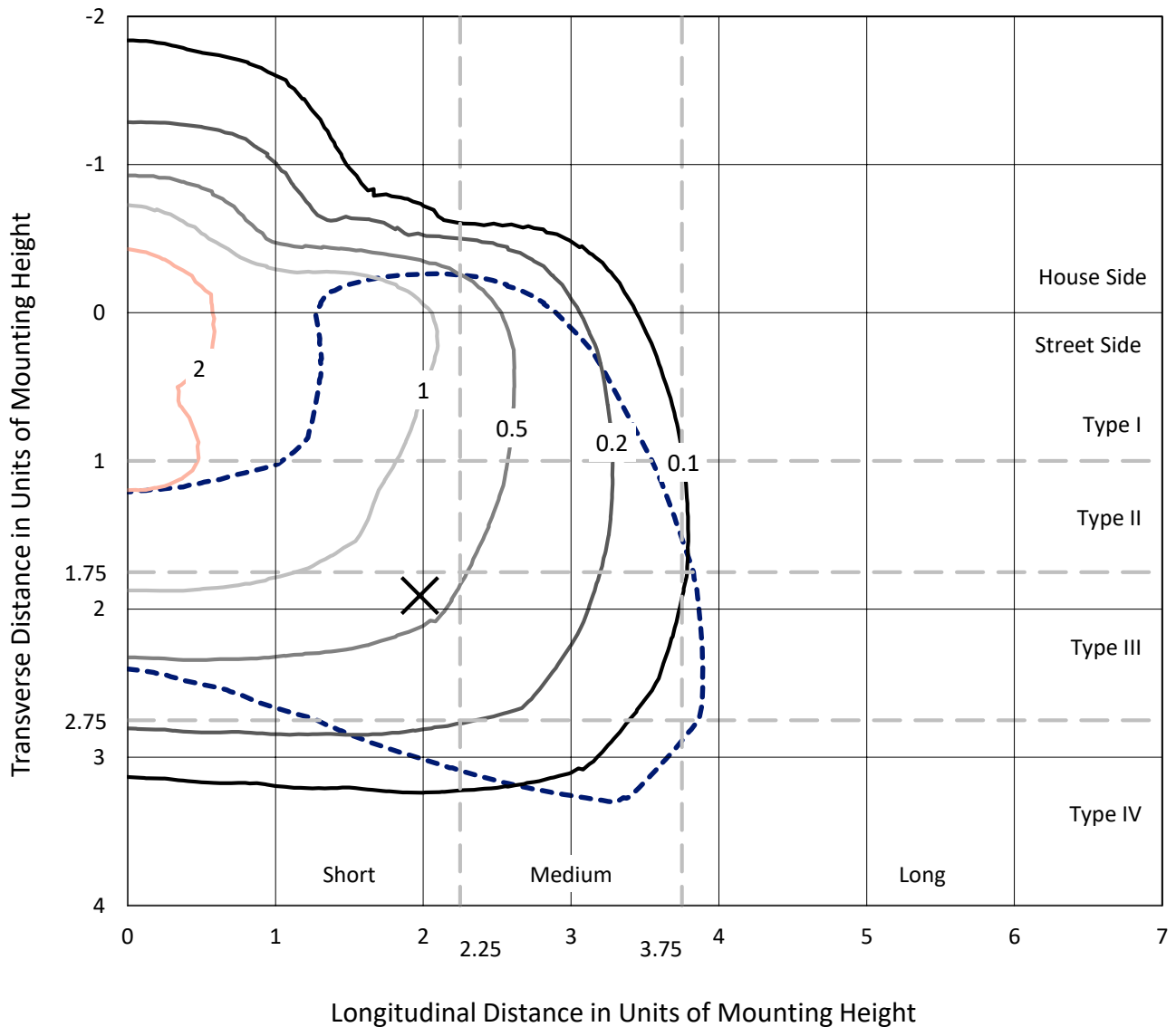
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

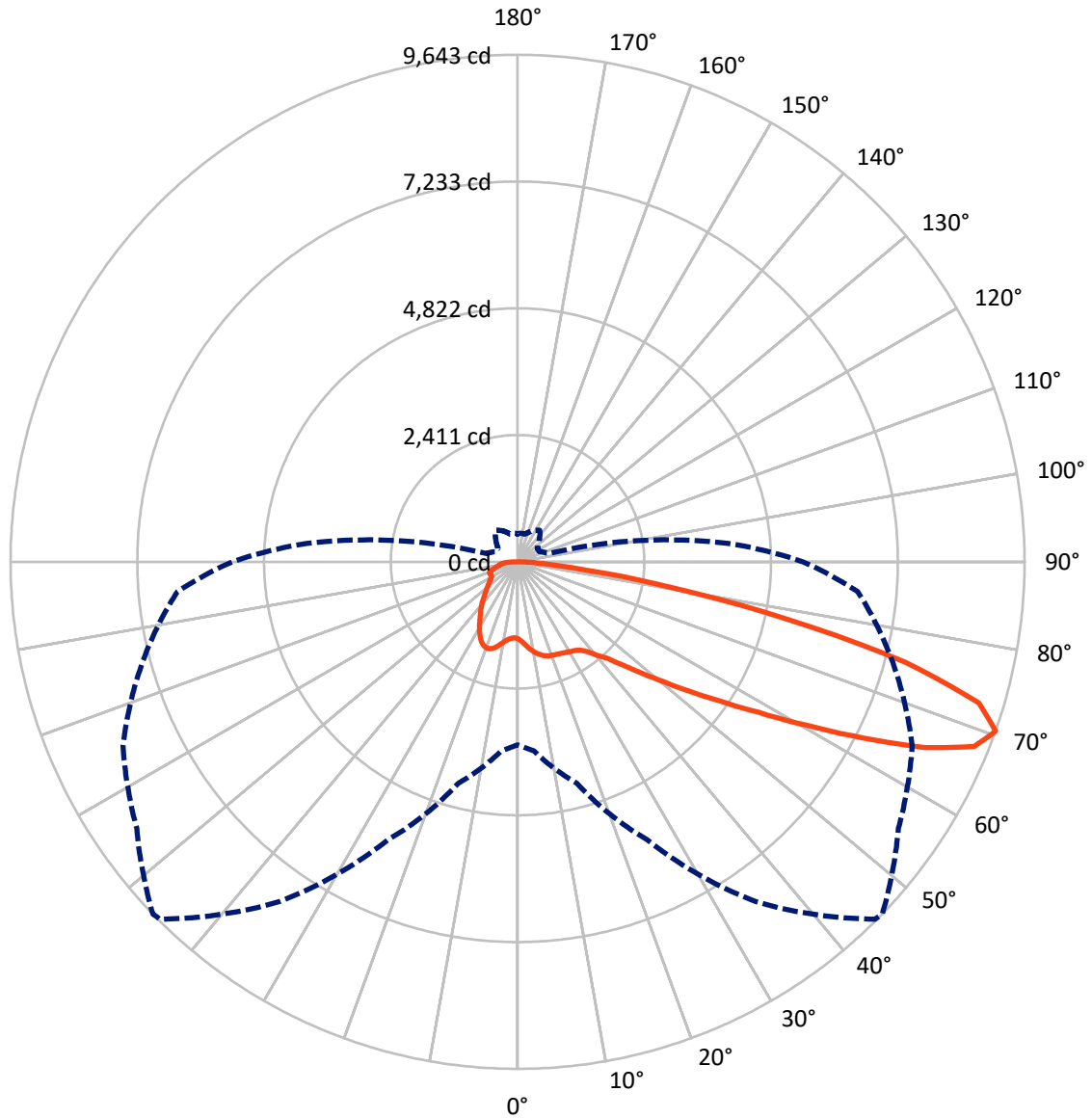
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	3293.8	0.0	3293.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	11077.2	0.0	11077.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	14371.0	0.0	14371.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.3	1.0
10°-20°	497.3	3.5
20°-30°	829.2	5.8
30°-40°	1176.6	8.2
40°-50°	1730.7	12.0
50°-60°	2931.0	20.4
60°-70°	4160.5	29.0
70°-80°	2527.5	17.6
80°-90°	368.9	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°	14371.0	100.0
0°-180°	14371.0	100.0

Coefficient of Utilization

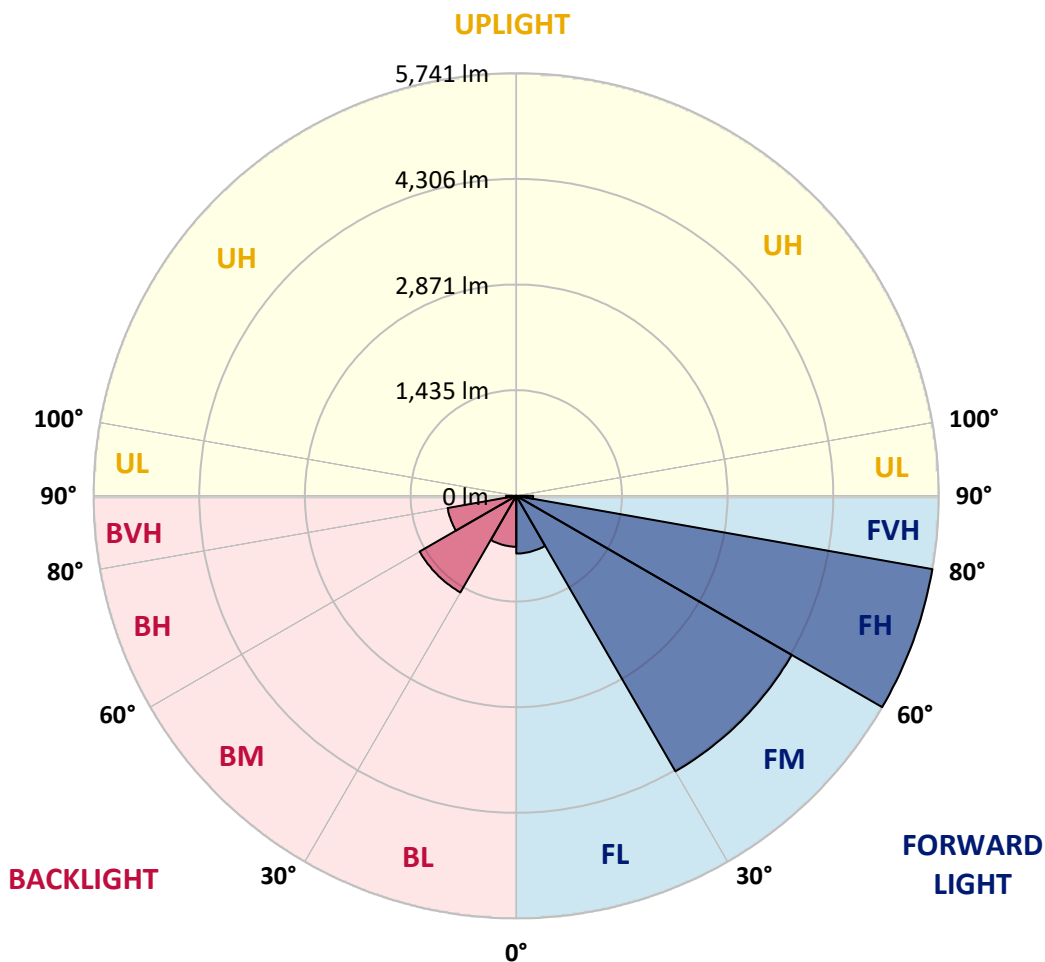


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	784.1	5.5			
FM (30°-60°)	4322.2	30.1			
FH (60°-80°)	5741.1	39.9			G3/7500
FVH (80°-90°)	229.8	1.6			G3/500
BL (0°-30°)	691.5	4.8	B2/1000		
BM (30°-60°)	1516.2	10.6	B2/2500		
BH (60°-80°)	946.9	6.6	B2/1000		G2/1000
BVH (80°-90°)	139.1	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°	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1
2.5°	1537.4	1538.4	1540.4	1535.4	1521.7	1517.7	1516.3	1502.0	1492.6	1478.9	1467.1
5°	1660.4	1661.3	1658.4	1644.6	1614.1	1591.5	1589.5	1557.1	1527.6	1496.1	1472.5
7.5°	1788.7	1790.2	1780.9	1754.8	1712.0	1672.7	1670.2	1625.9	1581.2	1533.5	1498.1
10°	1902.3	1896.4	1881.2	1844.8	1794.1	1745.9	1744.0	1697.7	1646.1	1588.6	1541.3
12.5°	1978.1	1973.1	1953.5	1909.2	1853.6	1809.4	1805.4	1762.7	1712.5	1649.5	1593.0
15°	2019.9	2023.3	1996.8	1946.6	1892.5	1855.1	1851.7	1821.2	1776.4	1713.0	1648.1
17.5°	2025.3	2028.2	2002.7	1953.0	1908.7	1883.1	1881.7	1861.5	1829.0	1768.1	1700.2
20°	1993.8	1995.8	1974.6	1933.8	1904.8	1896.9	1896.4	1887.6	1863.5	1809.4	1743.5
22.5°	1948.1	1949.5	1934.3	1904.8	1895.0	1907.2	1910.7	1907.2	1890.0	1839.4	1777.4
25°	1936.8	1935.8	1920.0	1890.0	1898.4	1924.5	1928.9	1930.4	1918.6	1874.3	1820.7
27.5°	1991.3	1987.9	1957.9	1909.7	1915.1	1946.6	1952.5	1966.8	1959.4	1920.5	1869.9
30°	2149.2	2143.3	2081.8	1984.5	1957.9	1974.1	1981.5	2004.1	2005.6	1973.1	1935.3
32.5°	2415.8	2408.4	2298.2	2124.1	2030.2	2002.2	2009.1	2043.0	2061.2	2036.1	1995.3
35°	2752.7	2744.3	2599.7	2361.7	2151.2	2055.8	2060.7	2087.7	2124.1	2088.7	2034.6
37.5°	3103.8	3083.7	2944.5	2641.0	2343.5	2170.4	2170.4	2173.8	2191.0	2117.2	2080.9
40°	3453.0	3432.8	3306.9	2969.6	2592.3	2350.9	2339.5	2263.3	2249.5	2186.1	2173.8
42.5°	3777.6	3771.7	3697.4	3340.9	2884.5	2528.4	2512.7	2383.3	2386.3	2346.9	2347.4
45°	4122.9	4122.9	4062.4	3715.6	3224.8	2813.7	2797.9	2607.6	2637.1	2618.9	2662.7
47.5°	4404.7	4413.5	4405.2	4106.1	3620.7	3176.1	3147.6	2918.4	3001.0	3063.5	3190.9
50°	4692.4	4706.1	4707.6	4534.5	4099.3	3606.9	3574.5	3331.0	3515.5	3694.5	3944.8
52.5°	5109.9	5140.9	5017.5	4961.9	4685.5	4118.4	4086.5	3861.7	4169.6	4420.9	4852.2
55°	5497.0	5469.9	5381.9	5416.3	5313.0	4700.7	4676.6	4479.4	4898.4	5225.0	5785.2
57.5°	5706.5	5704.5	5793.1	5940.6	5989.8	5418.8	5398.6	5206.8	5720.3	5965.7	6661.1
60°	5952.4	5955.8	6175.2	6510.1	6712.7	6312.9	6304.0	6158.5	6518.5	6657.2	7348.2
62.5°	5986.8	6048.8	6426.5	7002.9	7389.5	7357.5	7377.2	7015.7	7232.6	7209.0	7861.1
65°	5590.9	5672.6	6356.2	7151.9	8062.3	8500.0	8518.2	7877.8	7795.7	7680.6	8044.6
67.5°	4779.4	4900.4	5643.0	6827.8	8284.1	9344.4	9370.0	8546.2	8262.9	7840.5	7602.9
70°	3478.1	3612.4	4359.9	5831.4	7888.7	9614.4	9643.4	8841.8	8280.6	7385.5	6490.4
72.5°	2101.0	2206.3	2822.5	4293.0	6658.1	9122.6	9174.3	8467.0	7560.1	6255.8	4792.7
75°	922.6	991.5	1364.8	2473.8	4766.6	7547.8	7612.3	7247.3	6142.7	4546.3	2832.8
77.5°	393.0	412.6	559.7	1074.6	2694.6	5157.6	5246.2	5295.3	4167.6	2473.8	1197.1
80°	244.9	252.8	316.7	486.4	1261.0	2896.8	2992.2	3115.6	2069.5	909.4	418.0
82.5°	149.0	157.9	210.5	294.1	656.6	1313.1	1358.9	1445.9	803.1	393.0	216.4
85°	89.5	95.9	128.9	185.9	373.8	516.4	515.9	570.5	378.2	252.8	114.1
87.5°	42.8	47.7	68.9	96.4	188.4	193.8	181.5	205.6	229.7	165.7	57.5
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°	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1	1464.1
2.5°	1463.1	1461.2	1454.8	1449.9	1448.9	1445.9	1443.5	1444.9	1446.9	1447.4	1447.4
5°	1462.6	1457.2	1448.9	1445.4	1449.9	1455.8	1463.1	1473.0	1478.9	1483.3	1486.3
7.5°	1486.3	1475.9	1466.6	1464.6	1473.5	1489.2	1505.9	1526.6	1540.8	1550.7	1552.6
10°	1525.6	1512.8	1503.5	1505.4	1521.2	1543.8	1567.4	1594.0	1615.6	1628.9	1629.9
12.5°	1570.8	1558.6	1549.7	1558.1	1584.1	1611.7	1636.3	1659.4	1679.0	1692.3	1692.3
15°	1623.0	1614.1	1603.8	1623.0	1658.4	1683.0	1693.3	1704.6	1715.4	1725.3	1723.3
17.5°	1673.1	1664.8	1659.4	1682.0	1718.9	1730.2	1723.3	1714.9	1714.9	1720.4	1721.3
20°	1716.4	1709.0	1712.5	1734.6	1753.8	1742.0	1716.4	1689.9	1679.0	1682.0	1684.9
22.5°	1754.3	1750.8	1761.2	1771.5	1757.7	1716.4	1669.2	1633.3	1620.0	1619.0	1620.0
25°	1798.6	1798.1	1810.9	1792.2	1731.2	1654.9	1591.5	1556.6	1549.2	1555.1	1564.9
27.5°	1853.6	1859.0	1865.4	1797.1	1677.1	1562.0	1497.6	1473.5	1480.8	1495.1	1504.5
30°	1924.0	1938.7	1925.0	1784.8	1599.4	1455.8	1394.3	1387.4	1407.6	1427.7	1437.6
32.5°	1992.3	2015.4	1982.0	1752.8	1499.0	1343.1	1295.4	1293.5	1318.1	1337.7	1351.5
35°	2047.4	2093.2	2024.8	1689.4	1383.0	1239.4	1204.4	1191.2	1200.0	1223.1	1238.9
37.5°	2119.2	2195.4	2054.3	1592.5	1257.1	1153.8	1113.0	1082.5	1074.6	1084.0	1091.8
40°	2250.5	2351.4	2068.1	1457.2	1134.1	1068.2	1026.9	982.1	951.2	928.5	929.0
42.5°	2465.0	2554.5	2059.2	1293.0	1020.5	984.6	937.9	886.2	836.1	784.9	781.0
45°	2813.2	2856.4	2032.7	1118.9	920.7	897.1	853.3	801.7	734.8	676.7	671.3
47.5°	3370.4	3274.5	1991.3	966.9	832.6	822.8	782.5	723.0	652.1	605.4	601.5
50°	4130.2	3877.9	1971.2	845.9	754.9	757.9	724.9	662.0	595.1	560.7	556.7
52.5°	5039.1	4580.7	2010.0	752.5	692.5	702.8	678.2	619.2	563.1	536.1	532.1
55°	5981.9	5308.6	2051.8	684.6	633.5	653.6	645.3	596.6	545.9	520.8	517.4
57.5°	6789.0	5852.1	1968.2	629.5	580.8	612.3	619.7	582.3	537.1	514.4	510.5
60°	7297.0	6070.9	1748.9	577.9	539.0	579.4	604.9	578.4	540.5	538.5	535.6
62.5°	7538.0	6051.7	1419.9	537.1	513.0	565.1	615.7	600.5	579.8	597.6	599.0
65°	7429.8	5762.6	1057.4	510.0	494.3	570.5	648.2	642.3	591.2	608.9	611.3
67.5°	6717.7	5072.5	783.0	486.4	473.6	585.7	707.2	656.1	569.0	581.8	573.9
70°	5429.6	4021.5	603.9	459.8	452.5	583.8	733.8	647.7	544.9	547.9	526.7
72.5°	3744.2	2742.3	491.3	435.3	422.0	532.1	715.1	627.1	524.8	502.1	474.1
75°	2036.1	1472.0	417.5	409.7	368.4	467.2	680.7	612.3	506.6	476.6	460.8
77.5°	801.2	610.8	362.5	374.8	322.1	412.6	642.3	584.3	481.5	442.1	434.3
80°	327.1	311.8	300.5	324.1	276.9	361.0	596.1	551.3	451.5	410.2	394.4
82.5°	185.4	193.8	233.6	255.7	224.8	332.5	573.9	524.8	415.6	367.4	348.7
85°	94.9	113.6	162.8	183.4	165.2	282.8	528.7	459.4	333.4	281.3	282.8
87.5°	45.7	63.4	102.8	115.1	107.2	204.6	394.9	333.0	259.7	205.6	199.2
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)