

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: P319056

Luminaire Tested: **GAN-SA2D-740-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319056
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-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 15764 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

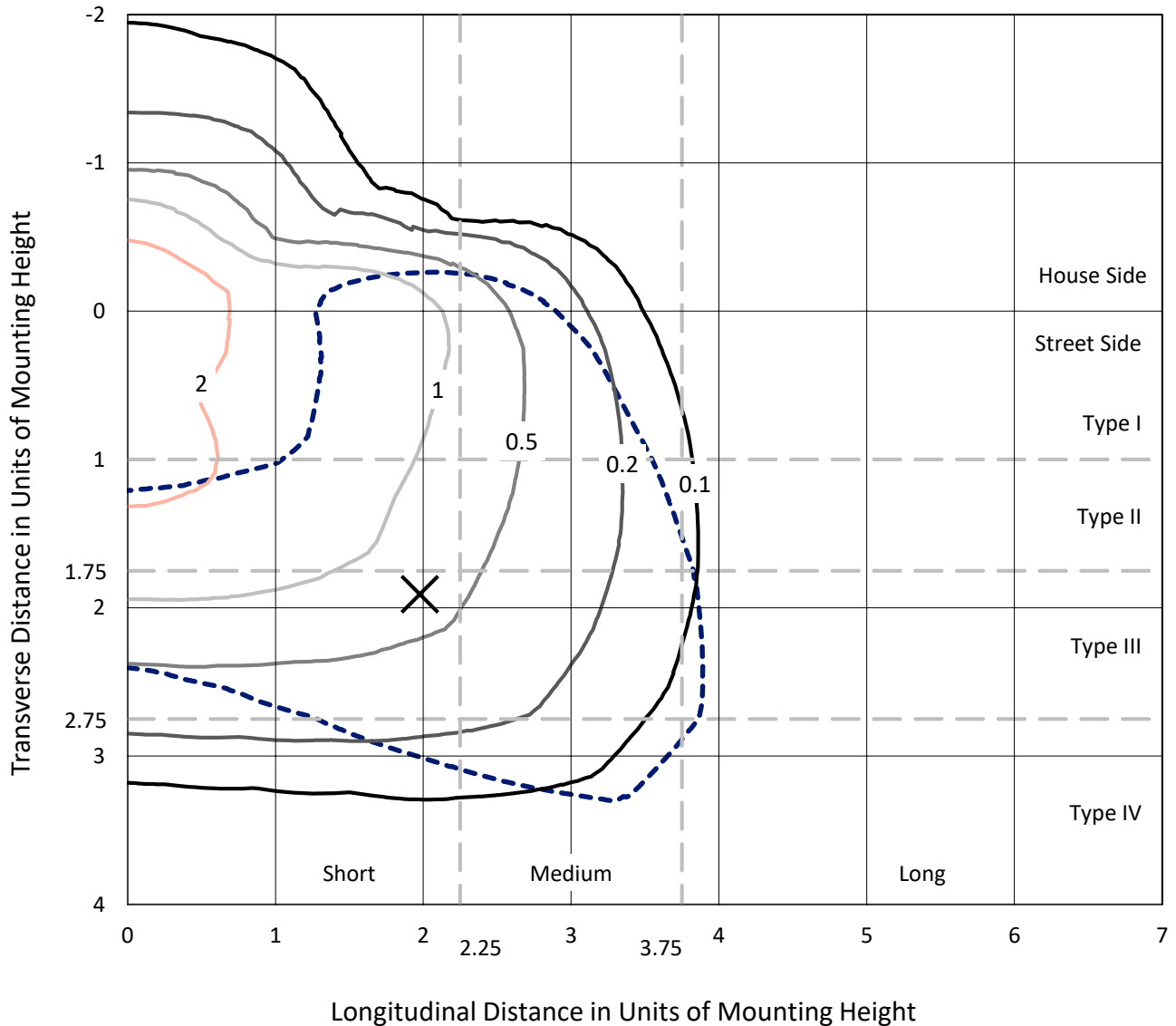
Input Watts (W): 129
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

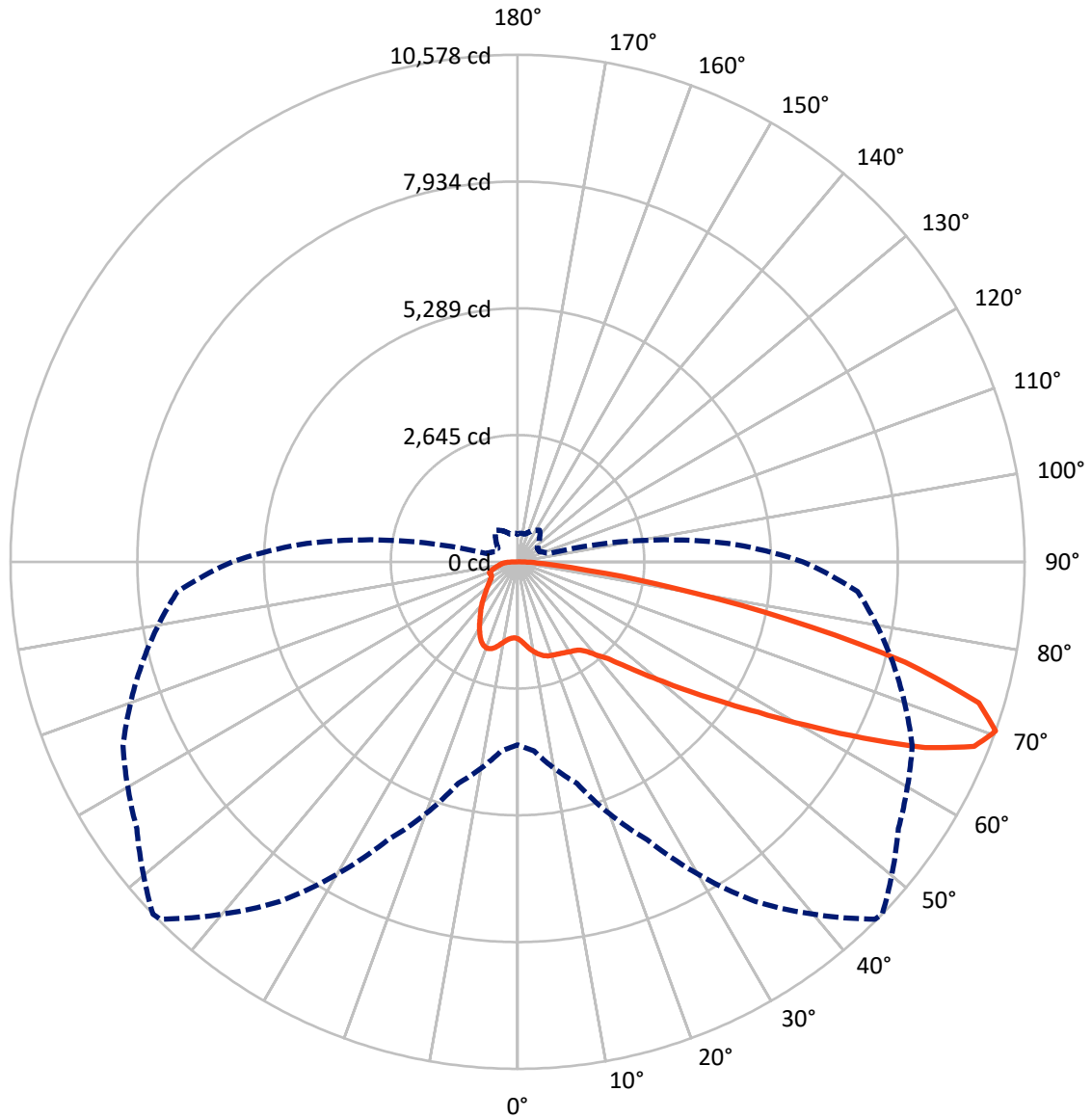
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	3613.1	0.0	3613.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	12150.9	0.0	12150.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	15764.0	0.0	15764.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.7	1.0
10°-20°	545.5	3.5
20°-30°	909.5	5.8
30°-40°	1290.7	8.2
40°-50°	1898.5	12.0
50°-60°	3215.1	20.4
60°-70°	4563.8	29.0
70°-80°	2772.6	17.6
80°-90°	404.6	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°	15764.0	100.0
0°-180°	15764.0	100.0

Coefficient of Utilization

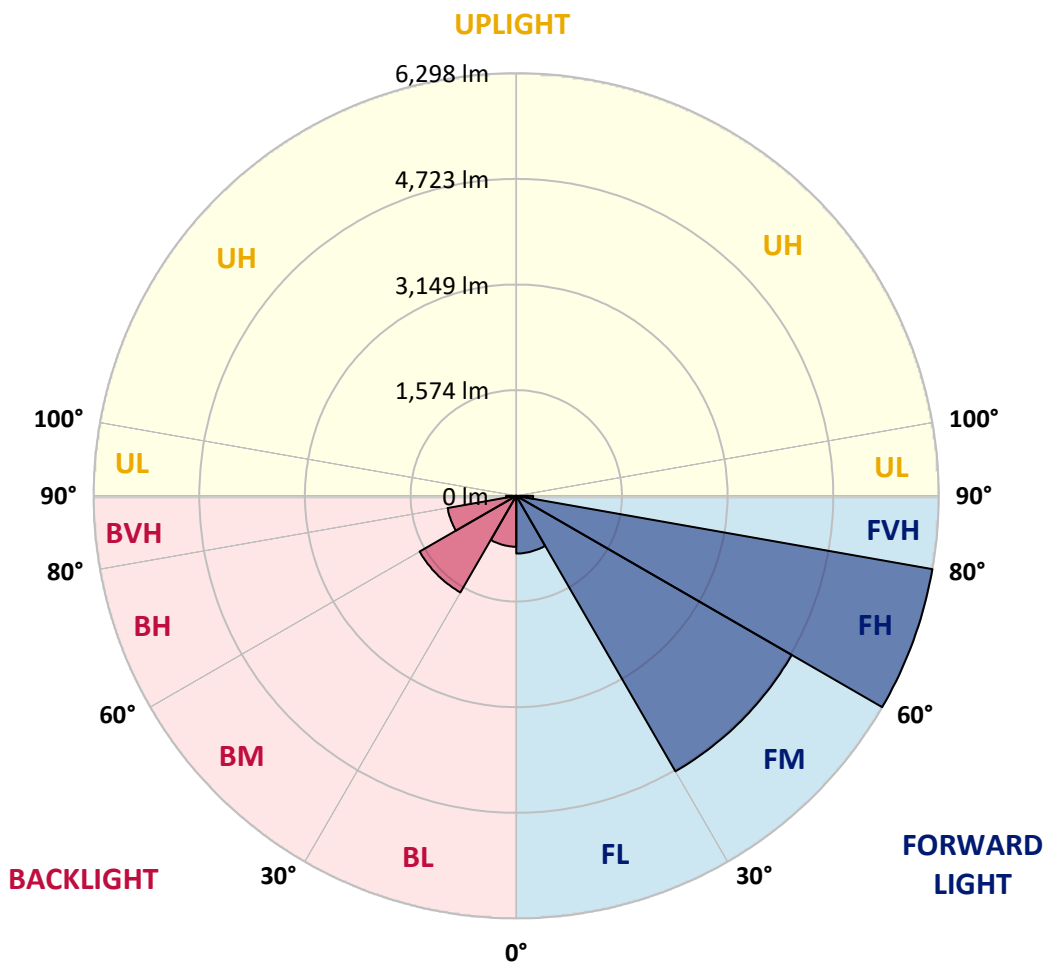


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	860.2	5.5			
FM (30°-60°)	4741.1	30.1			
FH (60°-80°)	6297.6	39.9			G3/7500
FVH (80°-90°)	252.0	1.6			G3/500
BL (0°-30°)	758.6	4.8	B2/1000		
BM (30°-60°)	1663.2	10.6	B2/2500		
BH (60°-80°)	1038.7	6.6	B3/2500		G3/2500
BVH (80°-90°)	152.6	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0
2.5°	1686.4	1687.5	1689.7	1684.3	1669.2	1664.8	1663.2	1647.6	1637.3	1622.2	1609.3
5°	1821.3	1822.4	1819.1	1804.0	1770.6	1745.8	1743.6	1708.0	1675.6	1641.1	1615.2
7.5°	1962.1	1963.7	1953.5	1924.9	1877.9	1834.8	1832.1	1783.5	1734.4	1682.1	1643.3
10°	2086.7	2080.2	2063.5	2023.6	1968.0	1915.2	1913.0	1862.3	1805.7	1742.5	1690.7
12.5°	2169.8	2164.4	2142.8	2094.3	2033.3	1984.8	1980.4	1933.5	1878.5	1809.4	1747.4
15°	2215.7	2219.4	2190.3	2135.3	2075.9	2034.9	2031.2	1997.7	1948.6	1879.0	1807.8
17.5°	2221.6	2224.8	2196.8	2142.3	2093.7	2065.7	2064.1	2041.9	2006.3	1939.4	1865.0
20°	2187.1	2189.2	2166.0	2121.3	2089.4	2080.8	2080.2	2070.5	2044.1	1984.8	1912.5
22.5°	2136.9	2138.5	2121.8	2089.4	2078.6	2092.1	2095.9	2092.1	2073.2	2017.7	1949.7
25°	2124.5	2123.4	2106.1	2073.2	2082.4	2111.0	2115.9	2117.5	2104.5	2056.0	1997.2
27.5°	2184.4	2180.6	2147.7	2094.8	2100.7	2135.3	2141.8	2157.4	2149.3	2106.7	2051.1
30°	2357.5	2351.1	2283.6	2176.8	2147.7	2165.5	2173.6	2198.4	2200.0	2164.4	2122.9
32.5°	2649.9	2641.9	2521.0	2330.0	2227.0	2196.2	2203.8	2241.0	2261.0	2233.5	2188.7
35°	3019.5	3010.3	2851.7	2590.6	2359.7	2255.0	2260.4	2290.1	2330.0	2291.2	2231.8
37.5°	3404.7	3382.6	3229.9	2897.0	2570.6	2380.7	2380.7	2384.5	2403.4	2322.5	2282.6
40°	3787.7	3765.6	3627.5	3257.4	2843.6	2578.7	2566.3	2482.7	2467.6	2398.0	2384.5
42.5°	4143.8	4137.3	4055.8	3664.7	3164.1	2773.5	2756.2	2614.3	2617.6	2574.4	2575.0
45°	4522.5	4522.5	4456.1	4075.8	3537.4	3086.4	3069.1	2860.3	2892.7	2872.8	2920.8
47.5°	4831.6	4841.3	4832.2	4504.1	3971.7	3484.0	3452.7	3201.3	3291.9	3360.4	3500.2
50°	5147.2	5162.3	5163.9	4974.0	4496.6	3956.6	3921.0	3653.9	3856.2	4052.6	4327.2
52.5°	5605.2	5639.2	5503.8	5442.9	5139.7	4517.6	4482.6	4236.0	4573.7	4849.4	5322.5
55°	6029.8	6000.1	5903.6	5941.3	5828.0	5156.4	5130.0	4913.6	5373.3	5731.5	6345.9
57.5°	6259.6	6257.5	6354.6	6516.4	6570.4	5944.0	5921.9	5711.5	6274.7	6543.9	7306.8
60°	6529.4	6533.1	6773.8	7141.1	7363.4	6924.8	6915.1	6755.4	7150.3	7302.5	8060.4
62.5°	6567.1	6635.1	7049.4	7681.7	8105.7	8070.7	8092.3	7695.7	7933.6	7907.8	8623.1
65°	6132.9	6222.4	6972.3	7845.2	8843.8	9323.9	9343.9	8641.5	8551.4	8425.1	8824.3
67.5°	5242.7	5375.4	6190.0	7489.7	9087.1	10250.2	10278.2	9374.6	9063.9	8600.4	8339.9
70°	3815.2	3962.5	4782.5	6396.7	8653.3	10546.4	10578.2	9698.8	9083.3	8101.4	7119.6
72.5°	2304.7	2420.1	3096.1	4709.2	7303.5	10006.9	10063.5	9287.8	8292.9	6862.2	5257.3
75°	1012.1	1087.6	1497.1	2713.6	5228.7	8279.5	8350.1	7949.8	6738.2	4987.0	3107.4
77.5°	431.0	452.6	613.9	1178.8	2955.8	5657.6	5754.7	5808.6	4571.6	2713.6	1313.1
80°	268.7	277.3	347.4	533.5	1383.2	3177.6	3282.2	3417.6	2270.1	997.5	458.6
82.5°	163.5	173.2	230.9	322.6	720.2	1440.4	1490.6	1586.1	881.0	431.0	237.4
85°	98.2	105.2	141.3	203.9	410.0	566.5	565.9	625.8	414.9	277.3	125.2
87.5°	46.9	52.3	75.5	105.7	206.6	212.6	199.1	225.5	251.9	181.8	63.1
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°	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0	1606.0
2.5°	1605.0	1602.8	1595.8	1590.4	1589.3	1586.1	1583.4	1585.0	1587.2	1587.7	1587.7
5°	1604.4	1598.5	1589.3	1585.5	1590.4	1596.9	1605.0	1615.8	1622.2	1627.1	1630.3
7.5°	1630.3	1619.0	1608.7	1606.6	1616.3	1633.6	1651.9	1674.6	1690.2	1701.0	1703.2
10°	1673.5	1659.5	1649.2	1651.4	1668.6	1693.4	1719.3	1748.5	1772.2	1786.8	1787.8
12.5°	1723.1	1709.6	1699.9	1709.1	1737.7	1767.9	1794.9	1820.2	1841.8	1856.4	1856.4
15°	1780.3	1770.6	1759.3	1780.3	1819.1	1846.1	1857.4	1869.9	1881.7	1892.5	1890.4
17.5°	1835.3	1826.2	1820.2	1845.0	1885.5	1897.9	1890.4	1881.2	1881.2	1887.1	1888.2
20°	1882.8	1874.7	1878.5	1902.8	1923.8	1910.9	1882.8	1853.7	1841.8	1845.0	1848.3
22.5°	1924.3	1920.6	1931.9	1943.2	1928.1	1882.8	1831.0	1791.6	1777.1	1776.0	1777.1
25°	1972.9	1972.4	1986.4	1965.9	1899.0	1815.4	1745.8	1707.5	1699.4	1705.8	1716.6
27.5°	2033.3	2039.2	2046.3	1971.3	1839.6	1713.4	1642.7	1616.3	1624.4	1640.0	1650.3
30°	2110.5	2126.6	2111.5	1957.8	1754.4	1596.9	1529.4	1521.9	1544.0	1566.1	1576.9
32.5°	2185.4	2210.8	2174.1	1922.7	1644.3	1473.3	1421.0	1418.8	1445.8	1467.4	1482.5
35°	2245.9	2296.0	2221.1	1853.1	1517.0	1359.5	1321.2	1306.6	1316.3	1341.7	1359.0
37.5°	2324.6	2408.3	2253.4	1746.8	1378.9	1265.6	1220.9	1187.4	1178.8	1189.0	1197.7
40°	2468.7	2579.3	2268.5	1598.5	1244.0	1171.8	1126.4	1077.3	1043.4	1018.5	1019.1
42.5°	2703.9	2802.1	2258.8	1418.3	1119.4	1080.0	1028.8	972.1	917.1	861.0	856.7
45°	3085.8	3133.3	2229.7	1227.3	1009.9	984.0	936.0	879.4	806.0	742.3	736.4
47.5°	3697.1	3591.9	2184.4	1060.6	913.3	902.6	858.3	793.0	715.4	664.1	659.8
50°	4530.6	4253.8	2162.3	927.9	828.1	831.3	795.2	726.1	652.8	615.0	610.7
52.5°	5527.6	5024.8	2204.9	825.4	759.6	770.9	743.9	679.2	617.7	588.0	583.7
55°	6561.7	5823.2	2250.7	751.0	694.9	717.0	707.8	654.4	598.8	571.3	567.5
57.5°	7447.0	6419.3	2159.0	690.5	637.1	671.7	679.7	638.7	589.1	564.3	560.0
60°	8004.3	6659.4	1918.4	633.9	591.3	635.5	663.6	634.4	592.9	590.7	587.5
62.5°	8268.7	6638.3	1557.5	589.1	562.7	619.9	675.4	658.7	636.1	655.5	657.1
65°	8150.0	6321.1	1159.9	559.4	542.2	625.8	711.0	704.6	648.5	667.9	670.6
67.5°	7368.8	5564.2	858.9	533.5	519.5	642.5	775.8	719.7	624.2	638.2	629.6
70°	5955.9	4411.4	662.5	504.4	496.3	640.4	804.9	710.5	597.7	601.0	577.8
72.5°	4107.1	3008.2	538.9	477.4	462.9	583.7	784.4	687.8	575.6	550.8	520.1
75°	2233.5	1614.7	458.0	449.4	404.1	512.5	746.6	671.7	555.7	522.8	505.5
77.5°	878.8	670.0	397.6	411.1	353.4	452.6	704.6	640.9	528.2	485.0	476.4
80°	358.8	342.0	329.6	355.5	303.7	396.0	653.9	604.8	495.2	449.9	432.7
82.5°	203.4	212.6	256.3	280.5	246.5	364.7	629.6	575.6	455.9	403.0	382.5
85°	104.1	124.6	178.6	201.2	181.3	310.2	579.9	503.9	365.8	308.6	310.2
87.5°	50.2	69.6	112.8	126.2	117.6	224.4	433.2	365.2	284.8	225.5	218.5
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)