

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: P266800

Luminaire Tested: **GAN-AF-03-LED-U-T4W-7027-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-T4W-7027-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 15677.2 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 166
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: 28.75 FT

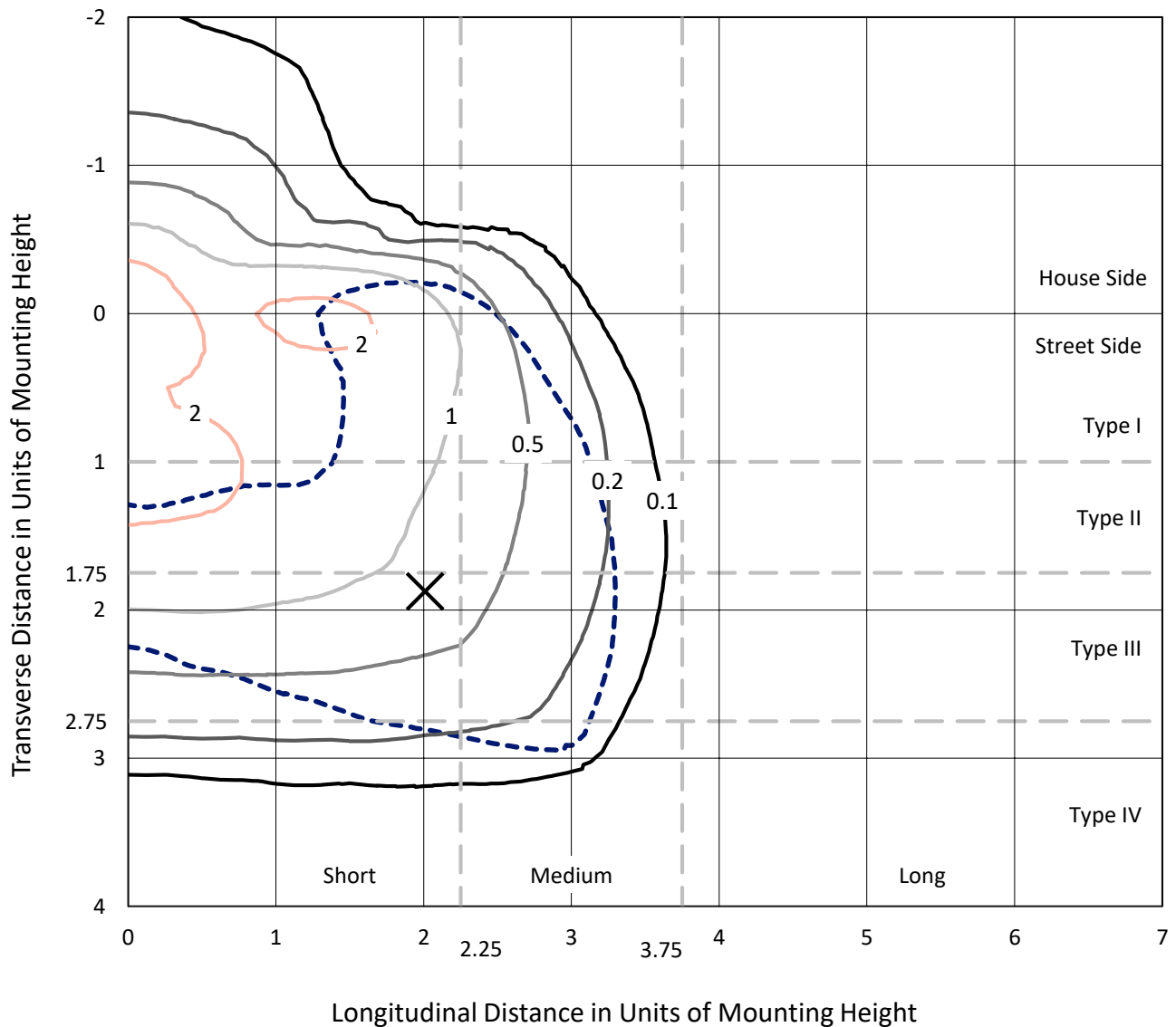


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

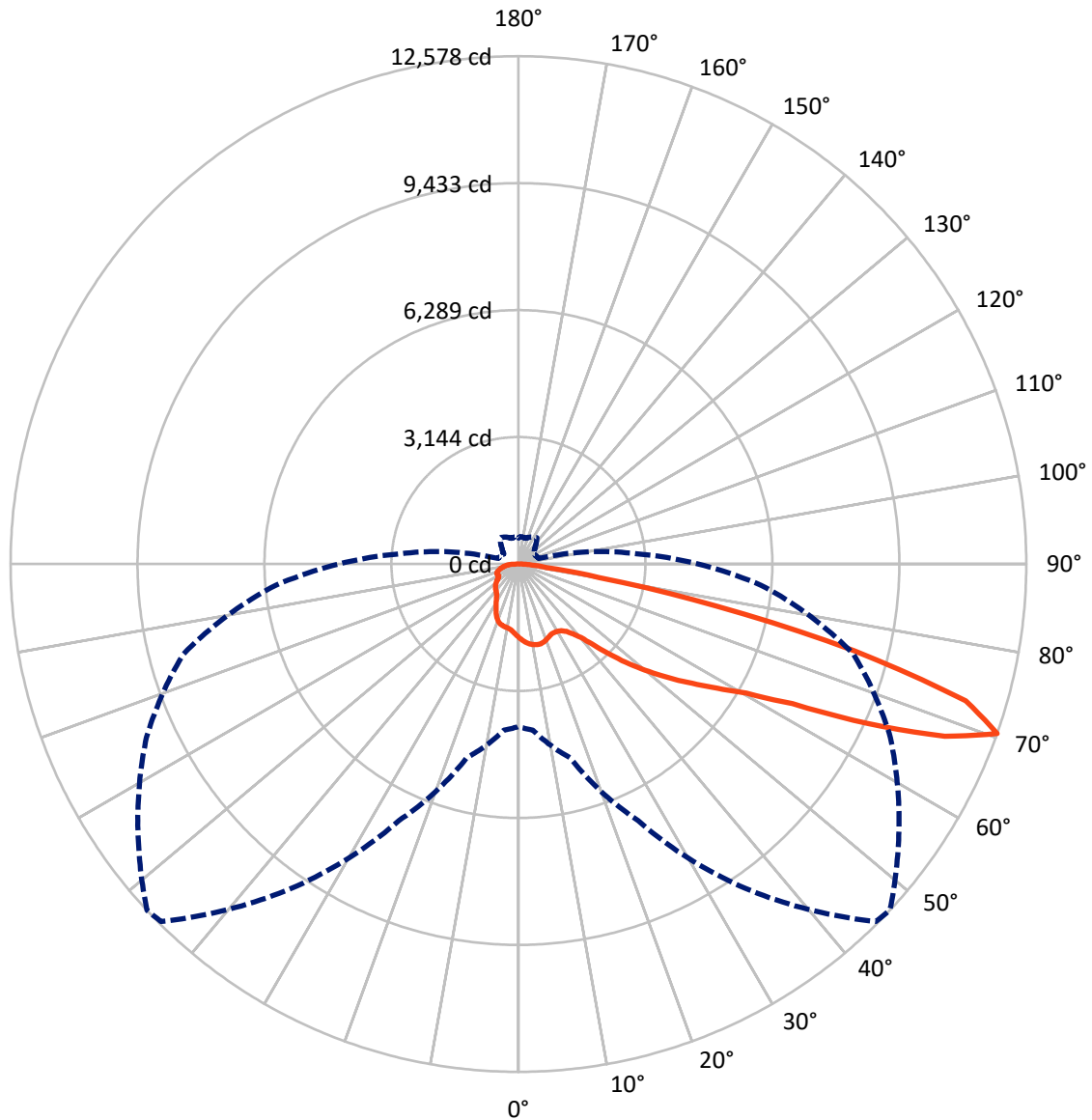


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3270.6	0.0	3270.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	12406.6	0.0	12406.6
	% Fixture	79.1	0.0	79.1
Total	Lumens	15677.2	0.0	15677.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.3	1.1
10°-20°	511.3	3.3
20°-30°	755.1	4.8
30°-40°	1097.5	7.0
40°-50°	1975.2	12.6
50°-60°	3421.8	21.8
60°-70°	4883.9	31.2
70°-80°	2507.1	16.0
80°-90°	351.0	2.2
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°	15677.2	100.0
0°-180°	15677.2	100.0

Coefficient of Utilization



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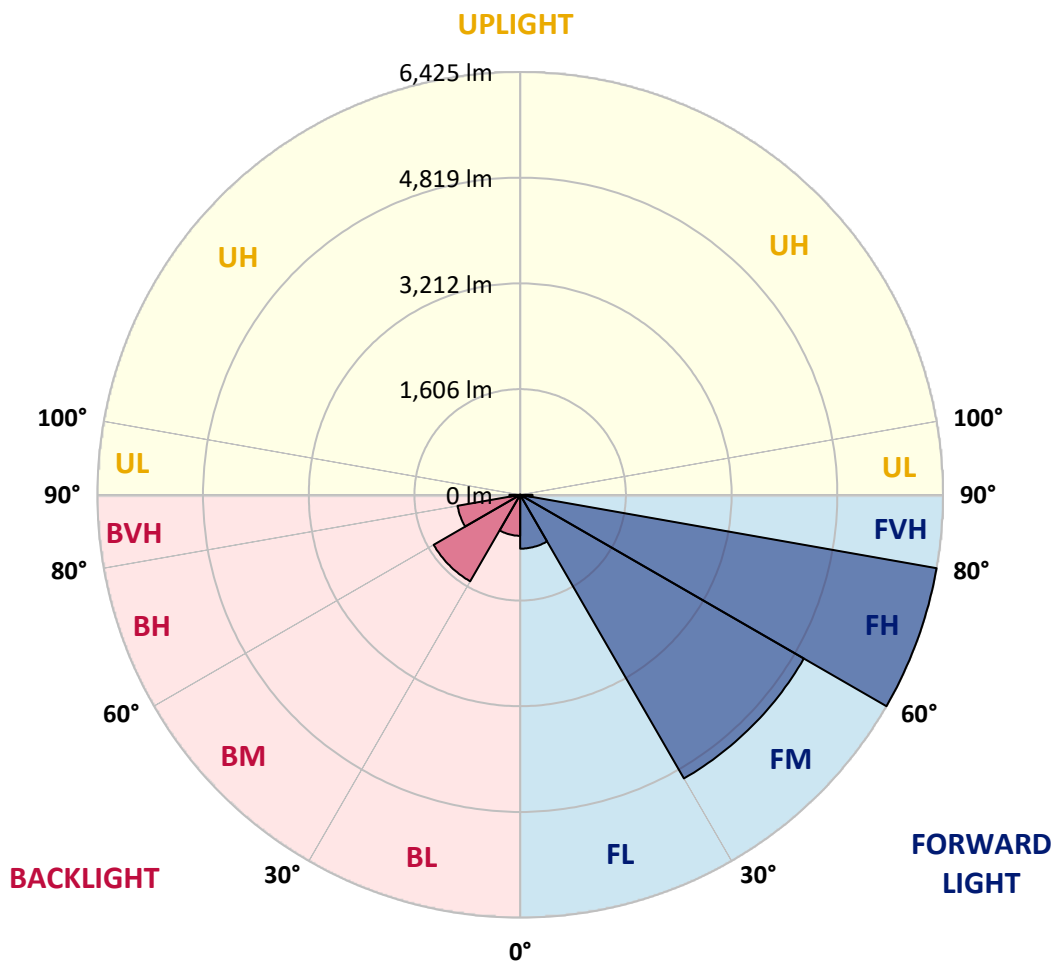
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	818.0	5.2			
FM	(30°-60°)	4976.4	31.7			
FH	(60°-80°)	6424.9	41.0			G3/7500
FVH	(80°-90°)	187.3	1.2			G2/225
BL	(0°-30°)	622.7	4.0	B2/1000		
BM	(30°-60°)	1518.1	9.7	B2/2500		
BH	(60°-80°)	966.0	6.2	B2/1000		G2/1000
BVH	(80°-90°)	163.7	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°	47°	55°	65°	75°	85°
0°	1819.1	1819.1	1819.1	1819.1	1819.1	1819.1	1819.1	1819.1	1819.1	1819.1	1819.1
2.5°	1925.8	1922.1	1920.4	1917.4	1913.6	1894.5	1890.8	1877.0	1858.0	1838.1	1817.5
5°	2052.4	2051.6	2043.3	2028.1	2003.6	1961.7	1951.7	1918.2	1873.1	1829.7	1786.3
7.5°	2163.7	2156.9	2140.9	2110.4	2067.7	2010.4	1996.8	1950.2	1888.4	1828.9	1770.2
10°	2245.5	2241.6	2206.4	2164.6	2109.0	2045.6	2029.5	1977.7	1909.7	1834.2	1761.0
12.5°	2291.9	2284.3	2243.8	2193.5	2127.1	2065.5	2049.4	1996.8	1920.4	1834.2	1748.1
15°	2288.9	2283.5	2243.1	2188.2	2121.1	2066.9	2052.4	1999.7	1918.2	1826.7	1731.4
17.5°	2227.8	2230.1	2195.7	2141.6	2086.8	2045.6	2032.7	1983.7	1902.9	1811.4	1711.5
20°	2121.1	2131.8	2109.0	2060.8	2030.3	2002.1	1993.7	1952.6	1879.3	1789.3	1690.2
22.5°	2014.3	2024.2	2015.1	1974.7	1970.1	1953.3	1948.8	1919.0	1858.8	1775.6	1677.1
25°	1935.8	1944.9	1943.4	1908.3	1922.1	1921.3	1917.4	1902.9	1854.1	1775.6	1679.6
27.5°	1914.4	1917.4	1914.4	1882.4	1901.4	1916.7	1913.6	1911.4	1867.8	1797.7	1708.4
30°	1987.6	1983.0	1959.5	1894.5	1912.1	1933.4	1930.4	1932.0	1909.1	1855.7	1773.3
32.5°	2279.7	2259.1	2184.4	2002.1	1955.6	1967.0	1968.5	1993.7	1997.6	1944.9	1874.0
35°	2716.7	2693.8	2597.0	2290.4	2090.5	2050.9	2050.9	2089.1	2111.9	2073.0	2030.3
37.5°	3179.7	3154.6	3102.7	2690.1	2374.3	2196.5	2192.8	2219.4	2252.3	2261.5	2272.2
40°	3706.0	3679.3	3693.8	3138.5	2770.2	2449.0	2394.9	2375.7	2464.3	2523.0	2608.5
42.5°	4281.9	4269.6	4274.9	3638.0	3221.0	2826.5	2749.5	2651.2	2757.9	2862.4	3041.7
45°	4814.9	4825.6	4820.2	4172.7	3722.8	3287.3	3205.6	3014.9	3119.5	3298.7	3590.9
47.5°	5281.8	5237.5	5306.1	4757.0	4284.8	3802.9	3702.2	3446.6	3552.6	3773.9	4268.0
50°	5848.3	5842.2	5741.6	5536.4	4964.5	4320.7	4188.7	3892.9	4057.6	4365.0	5121.5
52.5°	6444.1	6333.5	6241.2	6142.8	5685.2	4851.6	4689.8	4337.5	4651.0	5037.6	6161.8
55°	6566.2	6516.6	6630.8	6796.4	6380.0	5402.9	5214.7	4895.0	5319.0	5806.5	7361.6
57.5°	6826.9	6826.2	7062.7	7357.7	7095.4	5988.0	5798.1	5568.6	6070.3	6687.3	8635.2
60°	7003.1	7052.8	7492.0	8064.9	7797.8	6663.7	6489.0	6345.6	6924.6	7672.1	9822.1
62.5°	7095.4	7162.5	7762.1	8351.6	8791.0	7788.8	7614.0	7407.3	8054.9	8751.9	10516.1
65°	6711.7	6843.6	7720.0	8599.5	9660.5	9612.4	9533.8	9170.7	9468.1	9605.4	10265.2
67.5°	5650.1	5785.1	6805.6	8368.4	10281.2	11371.1	11388.0	10767.9	10337.6	9678.7	8630.7
70°	4025.6	4131.6	4975.9	7016.1	9808.4	12520.4	12577.7	11503.9	10164.5	8583.5	6030.0
72.5°	1911.4	1976.1	2775.5	4566.4	7783.4	11471.7	11582.3	10564.2	8643.0	6354.8	3289.6
75°	702.5	722.2	938.1	1942.7	4514.4	8459.9	8590.3	7572.8	5729.4	3163.7	1253.1
77.5°	421.0	434.1	526.2	820.0	1775.6	4835.5	5028.5	4118.5	2503.9	1177.6	616.2
80°	294.5	303.5	377.6	510.2	838.9	1842.8	2014.3	1681.0	997.6	745.1	448.4
82.5°	199.1	203.6	265.4	344.7	557.6	658.2	710.1	747.5	672.7	554.4	284.6
85°	130.4	134.9	180.0	227.4	354.7	340.2	347.9	440.1	491.2	376.7	157.9
87.5°	74.7	77.9	108.2	121.4	173.9	144.2	145.6	231.9	314.2	254.0	96.1
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°	1819.1	1819.1	1819.1	1819.1	1819.1	1819.1	1819.1	1819.1	1819.1	1819.1	1819.1
2.5°	1812.2	1802.3	1780.1	1766.3	1753.4	1750.3	1745.0	1744.2	1743.5	1743.5	1741.3
5°	1771.7	1755.0	1720.7	1701.6	1685.6	1684.1	1683.2	1687.0	1688.6	1690.2	1687.8
7.5°	1745.9	1722.9	1680.2	1652.8	1633.7	1629.2	1636.7	1654.3	1665.7	1670.3	1668.1
10°	1729.7	1701.6	1652.1	1622.2	1606.3	1604.0	1613.8	1634.5	1658.1	1667.3	1666.4
12.5°	1711.5	1679.6	1626.8	1595.6	1586.4	1591.0	1604.0	1623.1	1647.4	1662.0	1662.8
15°	1693.1	1655.8	1601.7	1574.2	1570.3	1576.4	1588.7	1603.1	1622.2	1636.7	1638.2
17.5°	1671.0	1632.2	1578.1	1549.8	1546.7	1549.8	1550.6	1558.2	1570.3	1584.2	1587.9
20°	1647.4	1607.7	1551.4	1523.2	1509.4	1497.1	1483.5	1485.0	1488.9	1502.5	1505.6
22.5°	1630.7	1591.0	1530.7	1491.8	1455.3	1418.7	1391.1	1387.3	1388.9	1400.3	1404.1
25°	1632.2	1590.2	1525.4	1458.3	1378.2	1319.5	1282.9	1276.9	1276.0	1284.3	1289.7
27.5°	1662.0	1620.0	1545.3	1424.0	1294.3	1207.3	1168.4	1163.8	1157.7	1160.2	1166.2
30°	1728.2	1689.4	1593.2	1388.9	1203.5	1097.5	1057.0	1052.5	1044.1	1040.3	1044.9
32.5°	1836.6	1804.5	1663.4	1355.4	1112.8	1003.8	962.5	952.7	947.3	942.7	946.5
35°	2016.5	2002.9	1757.3	1318.7	1032.7	931.3	894.0	878.6	870.9	879.4	885.5
37.5°	2298.9	2306.4	1880.1	1261.5	970.9	883.3	852.0	834.3	822.9	829.9	836.7
40°	2698.5	2703.8	2015.8	1180.6	917.4	854.9	821.4	805.4	789.4	777.3	776.5
42.5°	3223.2	3169.0	2149.3	1093.0	855.7	837.4	800.1	780.3	755.8	722.2	715.4
45°	3845.6	3655.7	2250.8	992.3	786.3	816.1	776.5	748.9	710.9	674.2	670.5
47.5°	4562.5	4178.0	2300.3	887.7	721.5	784.8	747.5	704.0	655.9	637.5	635.3
50°	5438.1	4798.1	2323.9	786.3	665.0	743.6	705.4	654.3	614.0	610.2	607.9
52.5°	6434.9	5544.1	2331.6	703.3	618.6	690.3	671.2	621.5	589.6	592.6	592.6
55°	7478.3	6314.4	2227.8	642.9	575.9	635.3	648.2	608.6	581.9	594.1	598.7
57.5°	8436.3	6997.0	1901.4	596.5	535.4	593.4	640.0	620.9	602.6	652.1	655.1
60°	9171.4	7400.4	1420.1	554.4	505.7	578.9	662.1	667.4	671.9	790.1	806.1
62.5°	9325.6	7266.3	976.3	521.6	491.9	591.1	702.5	703.3	697.9	780.3	790.1
65°	8618.5	6417.4	710.1	503.4	480.6	613.3	736.8	720.8	685.6	748.2	730.0
67.5°	6844.5	4834.8	591.1	489.7	463.7	611.7	773.4	736.8	678.8	732.9	703.3
70°	4442.7	2923.4	526.2	478.2	443.9	582.7	794.7	735.3	658.9	681.9	646.8
72.5°	2167.6	1307.3	482.7	461.4	423.3	542.2	794.0	721.5	638.3	636.9	617.8
75°	848.1	598.7	443.1	436.2	388.2	496.6	772.6	701.7	614.0	589.6	582.7
77.5°	496.6	427.1	392.7	398.8	346.2	450.8	741.3	667.4	580.5	551.4	543.8
80°	361.5	319.5	334.8	344.7	295.9	405.0	699.4	625.4	543.0	557.6	546.9
82.5°	231.9	205.9	271.5	281.3	246.3	358.5	653.6	581.2	490.5	445.4	434.7
85°	118.1	130.4	202.1	214.3	189.9	294.5	597.9	522.5	430.9	370.7	376.7
87.5°	66.4	89.2	128.8	144.2	134.2	226.6	485.1	430.9	351.5	286.0	251.6
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)