

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: P194001

Luminaire Tested: **GAN-AF-03-LED-U-T3-8030-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-8030-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16270 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 191
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

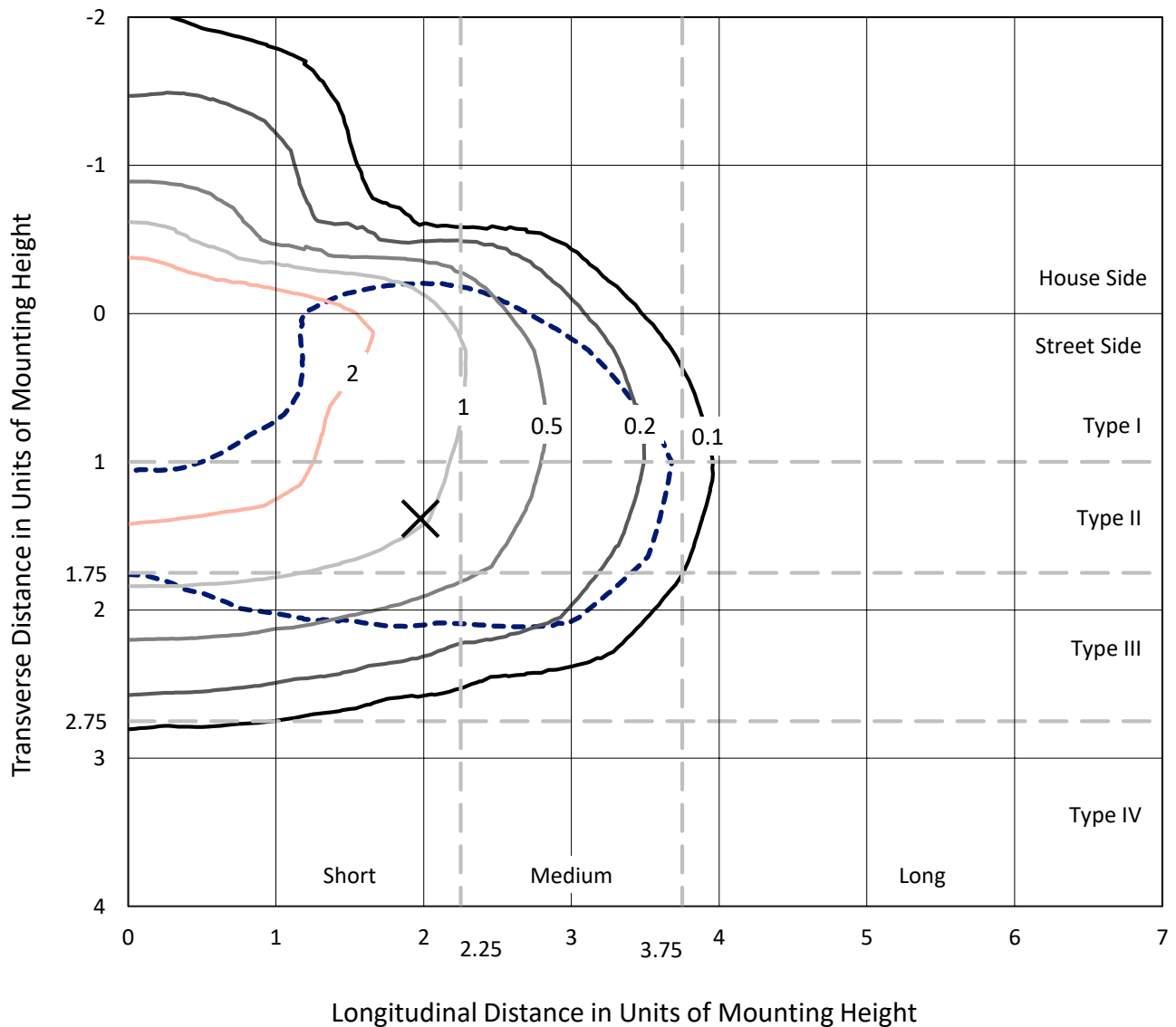


REPORT NUMBER: P194001

CATALOG NUMBER: GAN-AF-03-LED-U-T3-8030-1200-ADJ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

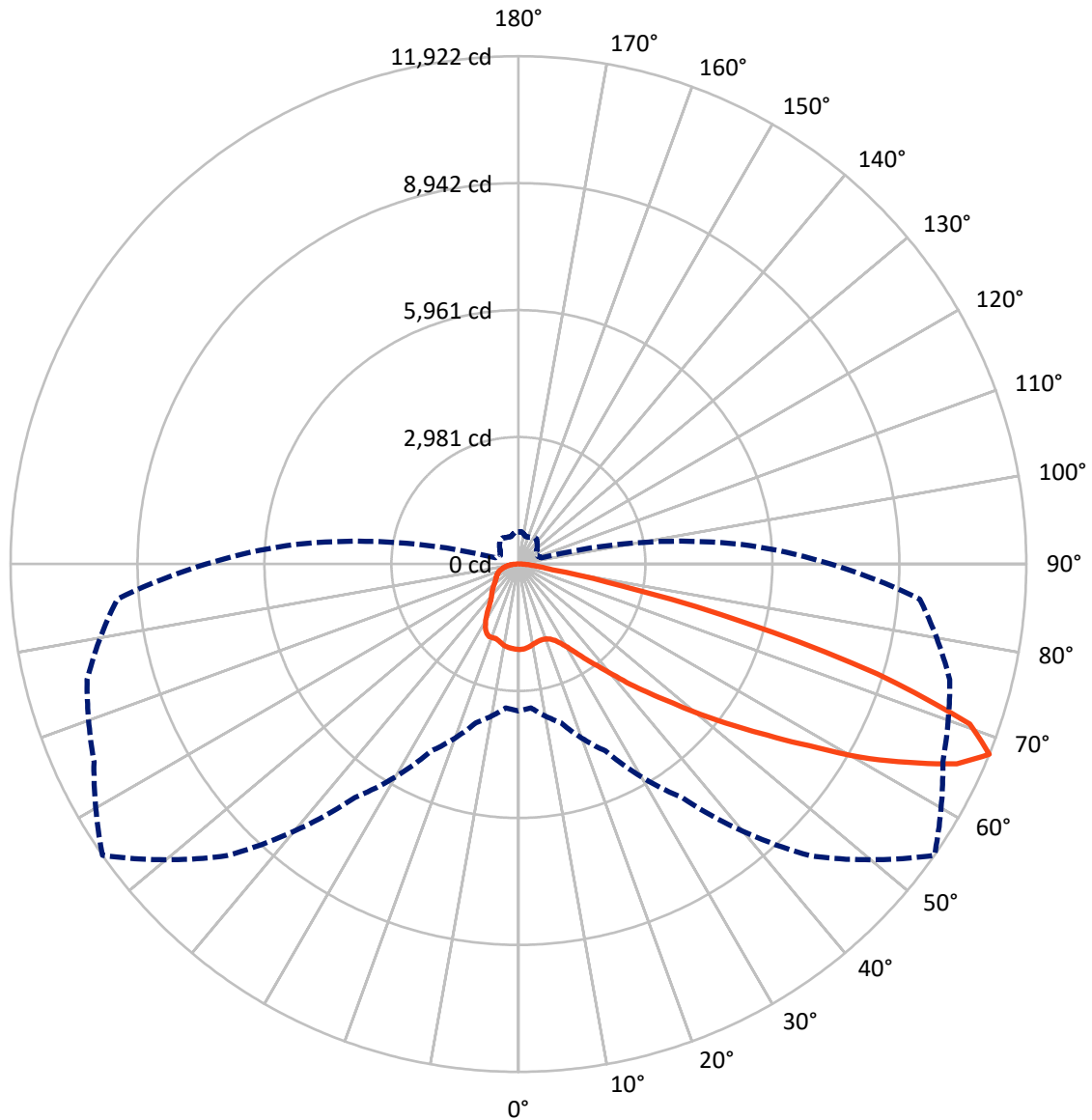


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P194001

CATALOG NUMBER: GAN-AF-03-LED-U-T3-8030-1200-ADJ

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



REPORT NUMBER: P194001

CATALOG NUMBER: GAN-AF-03-LED-U-T3-8030-1200-ADJ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3514.7	0.0	3514.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	12755.3	0.0	12755.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	16270.0	0.0	16270.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.3	1.2
10°-20°	530.4	3.3
20°-30°	888.4	5.5
30°-40°	1460.9	9.0
40°-50°	2459.2	15.1
50°-60°	3870.6	23.8
60°-70°	4619.2	28.4
70°-80°	1983.6	12.2
80°-90°	270.4	1.7
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°	16270.0	100.0
0°-180°	16270.0	100.0

Coefficient of Utilization



REPORT NUMBER: P194001

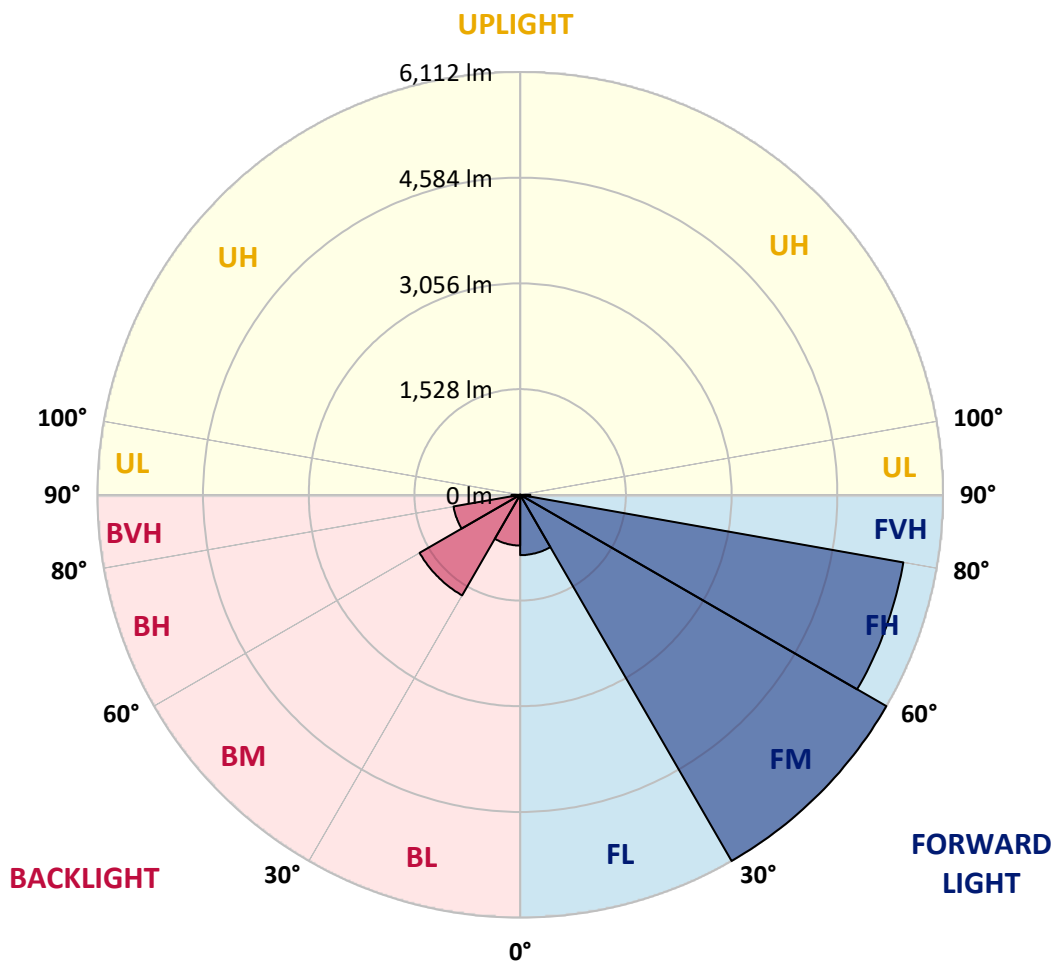
CATALOG NUMBER: GAN-AF-03-LED-U-T3-8030-1200-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	872.1	5.4			
FM (30°-60°)	6112.2	37.6			
FH (60°-80°)	5624.6	34.6			G3/7500
FVH (80°-90°)	146.4	0.9			G2/225
BL (0°-30°)	733.9	4.5	B2/1000		
BM (30°-60°)	1678.6	10.3	B2/2500		
BH (60°-80°)	978.1	6.0	B2/1000		G2/1000
BVH (80°-90°)	124.1	0.8			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 III Short





REPORT NUMBER: P194001

CATALOG NUMBER: GAN-AF-03-LED-U-T3-8030-1200-ADJ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2006.3	2006.3	2006.3	2006.3	2006.3	2006.3	2006.3	2006.3	2006.3	2006.3	2006.3
2.5°	1989.0	1989.8	1991.3	1997.6	2003.1	2001.6	2002.3	1999.2	1998.4	1993.7	1998.4
5°	1963.8	1966.2	1967.0	1977.2	1983.5	1985.1	1982.7	1978.8	1974.0	1969.3	1971.7
7.5°	1906.5	1912.8	1913.5	1927.7	1937.9	1951.3	1952.0	1952.8	1950.5	1947.3	1952.0
10°	1870.3	1871.9	1871.1	1881.3	1889.2	1904.1	1912.8	1927.7	1934.0	1935.5	1938.7
12.5°	1868.0	1866.4	1864.0	1864.0	1861.7	1868.0	1883.7	1904.9	1919.8	1924.5	1928.5
15°	1893.1	1892.3	1884.5	1872.7	1857.7	1853.0	1866.4	1890.0	1909.6	1919.8	1923.8
17.5°	1949.7	1945.0	1932.4	1905.7	1873.5	1860.9	1862.5	1882.1	1904.9	1918.3	1922.2
20°	2053.4	2053.4	2026.7	1976.4	1919.0	1889.2	1875.0	1886.8	1908.8	1926.9	1932.4
22.5°	2232.6	2234.2	2189.4	2106.9	2010.2	1946.5	1911.2	1908.8	1934.8	1955.2	1961.5
25°	2486.4	2480.1	2417.3	2299.4	2152.4	2047.1	1985.8	1971.7	1993.7	2016.5	2024.3
27.5°	2781.9	2759.1	2684.5	2542.2	2352.0	2198.0	2103.7	2080.9	2102.1	2128.1	2135.9
30°	3074.2	3050.7	2961.9	2806.3	2594.9	2400.0	2264.8	2227.9	2257.7	2294.7	2299.4
32.5°	3366.6	3366.6	3267.6	3086.0	2855.8	2641.2	2479.3	2435.3	2484.8	2529.6	2539.9
35°	3716.3	3717.8	3622.0	3403.5	3156.0	2928.9	2750.5	2718.2	2792.9	2824.3	2848.7
37.5°	4146.1	4154.8	4031.4	3767.4	3496.2	3257.3	3045.2	3001.2	3075.8	3161.5	3240.0
40°	4610.6	4621.6	4485.6	4160.3	3889.2	3639.3	3409.8	3330.4	3454.6	3618.0	3719.4
42.5°	5053.8	5110.4	4979.1	4644.4	4352.8	4094.3	3861.7	3746.1	3901.7	4148.5	4236.5
45°	5694.3	5735.1	5506.4	5203.1	4928.8	4639.6	4331.6	4209.8	4427.5	4738.7	4756.7
47.5°	6121.0	6090.3	5974.0	5785.4	5611.7	5341.4	4877.8	4744.2	5033.4	5399.6	5298.2
50°	6348.1	6357.5	6341.8	6352.8	6359.1	6189.3	5547.3	5364.2	5709.2	6151.6	5918.2
52.5°	6560.3	6497.4	6549.3	6807.0	7118.2	7055.3	6275.8	6084.8	6433.7	6986.2	6573.6
55°	6555.5	6459.7	6628.6	7083.6	7758.7	7831.0	7093.8	6873.8	7199.9	7881.3	7268.3
57.5°	6323.7	6328.4	6588.5	7184.2	8205.0	8560.2	8043.1	7713.1	8012.5	8788.1	7902.5
60°	6004.7	6047.9	6422.7	7167.7	8562.6	9158.3	9207.8	8617.6	8808.6	9612.5	8427.4
62.5°	5489.9	5535.5	6052.6	6996.4	8508.4	9734.3	10260.8	9643.9	9640.8	10112.3	8581.5
65°	4678.2	4664.8	5207.8	6355.9	8053.4	10160.2	11306.8	10531.1	10267.9	10120.1	8271.8
67.5°	3449.9	3390.1	3856.2	4840.8	6693.8	9683.2	11922.1	10993.2	10481.6	9454.5	7325.7
70°	1790.2	1730.4	2107.6	2826.7	4402.3	7557.5	11240.8	10754.3	10009.3	7925.3	5739.0
72.5°	765.4	755.2	908.4	1240.1	2129.6	4359.1	8814.1	9308.4	8588.5	5904.9	3945.7
75°	514.7	511.6	569.0	675.8	957.9	1768.9	5515.9	6607.4	6283.6	3661.3	2219.2
77.5°	403.9	400.0	433.8	485.7	620.8	697.8	2447.9	3547.3	3283.3	1593.7	971.3
80°	315.9	312.8	334.0	362.3	446.4	440.1	805.5	1411.4	1092.3	610.6	472.3
82.5°	249.1	249.1	266.4	267.2	316.7	300.2	420.4	621.6	545.4	356.0	289.2
85°	227.9	227.9	246.0	199.6	206.7	189.4	260.9	368.6	345.8	146.2	125.7
87.5°	114.7	111.6	206.7	176.8	112.4	100.6	127.3	178.4	191.7	80.9	62.9
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: P194001

CATALOG NUMBER: GAN-AF-03-LED-U-T3-8030-1200-ADJ

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2006.3	2006.3	2006.3	2006.3	2006.3	2006.3	2006.3	2006.3	2006.3	2006.3
2.5°	1996.8	1996.1	1997.6	1998.4	2004.7	2013.3	2017.3	2022.8	2025.9	2024.3
5°	1973.3	1974.8	1981.1	1985.8	1996.8	2011.0	2018.8	2025.1	2030.6	2028.3
7.5°	1953.6	1957.5	1967.0	1970.9	1977.2	1981.1	1980.3	1982.7	1987.4	1981.9
10°	1942.6	1947.3	1954.4	1948.9	1934.0	1912.8	1893.1	1882.9	1886.0	1882.1
12.5°	1931.6	1937.9	1932.4	1906.5	1864.8	1837.3	1822.4	1824.0	1831.0	1832.6
15°	1925.3	1927.7	1904.1	1855.4	1813.0	1809.0	1816.9	1815.3	1816.1	1816.1
17.5°	1925.3	1919.0	1875.0	1826.3	1808.2	1801.2	1776.8	1746.2	1732.8	1728.1
20°	1935.5	1919.0	1865.6	1833.4	1794.1	1733.6	1669.1	1612.6	1587.4	1580.3
22.5°	1966.2	1937.9	1892.3	1836.5	1724.9	1623.6	1521.4	1453.8	1408.2	1400.4
25°	2028.3	1996.8	1945.0	1794.9	1614.9	1470.3	1354.0	1278.6	1233.0	1226.7
27.5°	2136.7	2116.3	1973.3	1702.9	1468.7	1313.9	1206.3	1148.1	1114.3	1112.0
30°	2300.2	2290.0	1959.1	1567.0	1288.8	1162.3	1110.4	1076.6	1051.5	1050.7
32.5°	2561.1	2478.6	1912.8	1401.2	1124.5	1054.6	1033.4	1013.0	993.3	993.3
35°	2896.6	2631.0	1824.7	1223.6	1024.7	994.9	968.2	935.9	910.0	908.4
37.5°	3291.1	2725.3	1666.8	1080.5	977.6	954.8	915.5	867.6	822.0	814.1
40°	3689.6	2753.6	1444.4	992.5	947.7	914.7	866.8	810.2	766.2	763.8
42.5°	4055.0	2699.4	1208.6	932.0	917.9	873.9	823.6	773.3	738.7	737.9
45°	4361.5	2558.7	1010.6	874.6	886.4	836.9	792.1	751.3	724.6	719.1
47.5°	4649.9	2359.9	871.5	814.1	855.0	816.5	778.8	740.3	714.3	710.4
50°	4984.6	2145.4	774.1	755.2	827.5	809.4	789.8	749.7	706.5	701.8
52.5°	5390.1	1959.9	697.8	703.3	806.3	818.9	818.1	776.4	701.0	694.7
55°	5842.8	1754.0	640.5	660.9	797.6	836.1	825.1	801.6	705.7	696.3
57.5°	6288.4	1513.5	600.4	628.7	785.1	834.6	791.3	757.6	716.7	703.3
60°	6622.3	1190.6	569.7	600.4	757.6	808.6	754.4	709.6	714.3	704.1
62.5°	6644.3	920.2	532.8	576.0	715.9	782.7	730.1	688.4	724.6	715.1
65°	6253.8	695.5	497.4	546.9	671.1	766.2	706.5	676.6	745.8	735.6
67.5°	5265.2	559.5	467.6	517.1	626.3	731.6	685.3	665.6	764.6	746.6
70°	3801.1	477.0	438.5	480.9	586.2	692.3	666.4	646.0	713.5	685.3
72.5°	2340.3	413.4	405.5	433.0	555.6	651.5	638.1	609.0	642.8	620.0
75°	1168.6	358.3	368.6	385.9	512.4	605.1	591.0	561.9	566.6	561.9
77.5°	559.5	306.5	325.3	338.7	456.6	552.5	537.5	507.7	502.2	502.9
80°	354.4	256.2	274.3	283.7	407.9	491.2	476.2	446.4	509.2	472.3
82.5°	221.6	208.2	213.0	230.3	355.2	427.5	407.9	381.1	458.9	363.1
85°	122.6	145.4	151.7	166.6	273.5	357.6	337.9	304.1	272.7	268.0
87.5°	73.1	86.4	88.8	99.8	183.9	258.5	228.7	216.9	180.0	179.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)