

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: P192371

Luminaire Tested: **GAN-AF-03-LED-U-T4W-7050-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192371
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-7050-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 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: 18045 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - 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

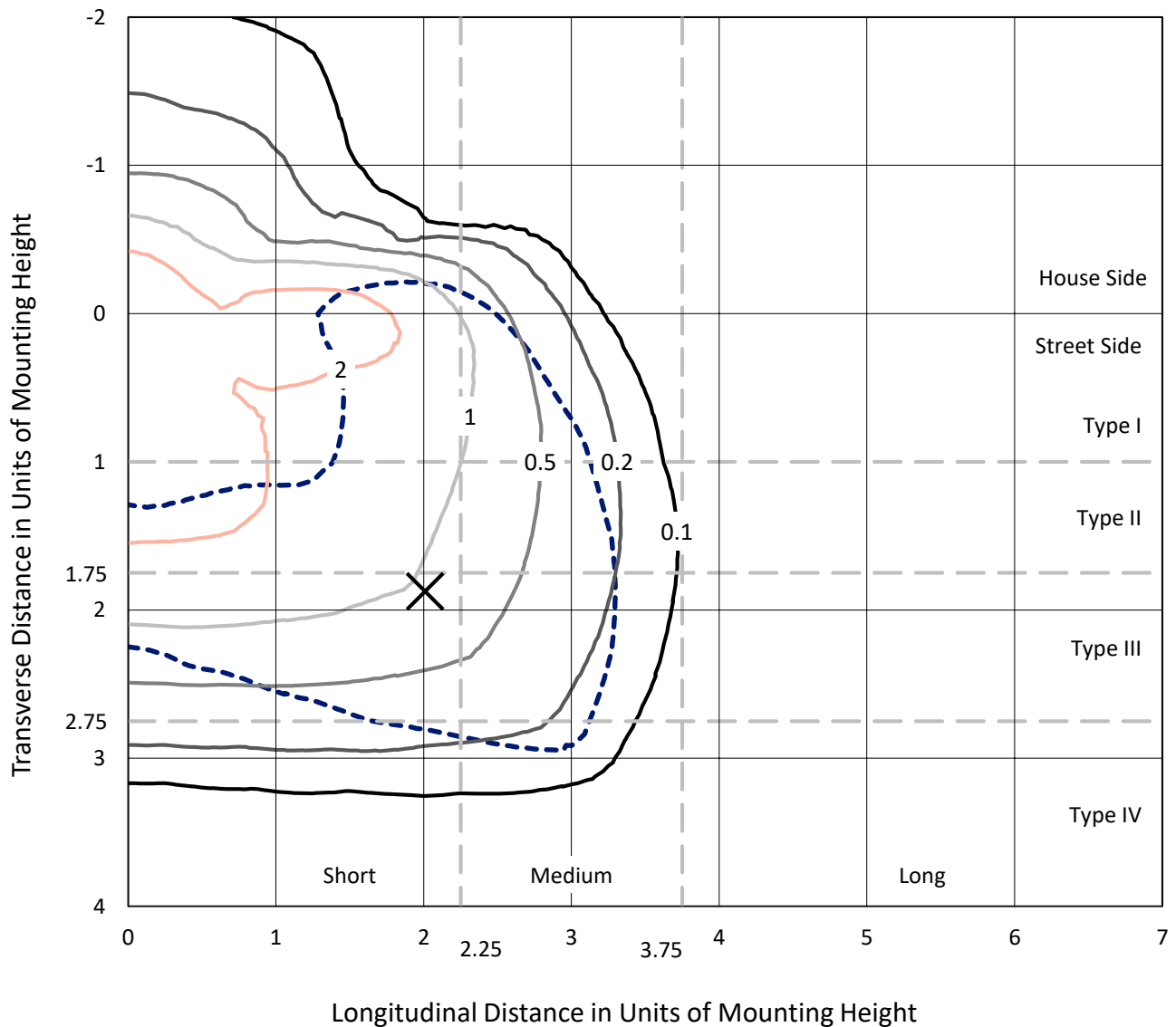


REPORT NUMBER: P192371

CATALOG NUMBER: GAN-AF-03-LED-U-T4W-7050-ADJ

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

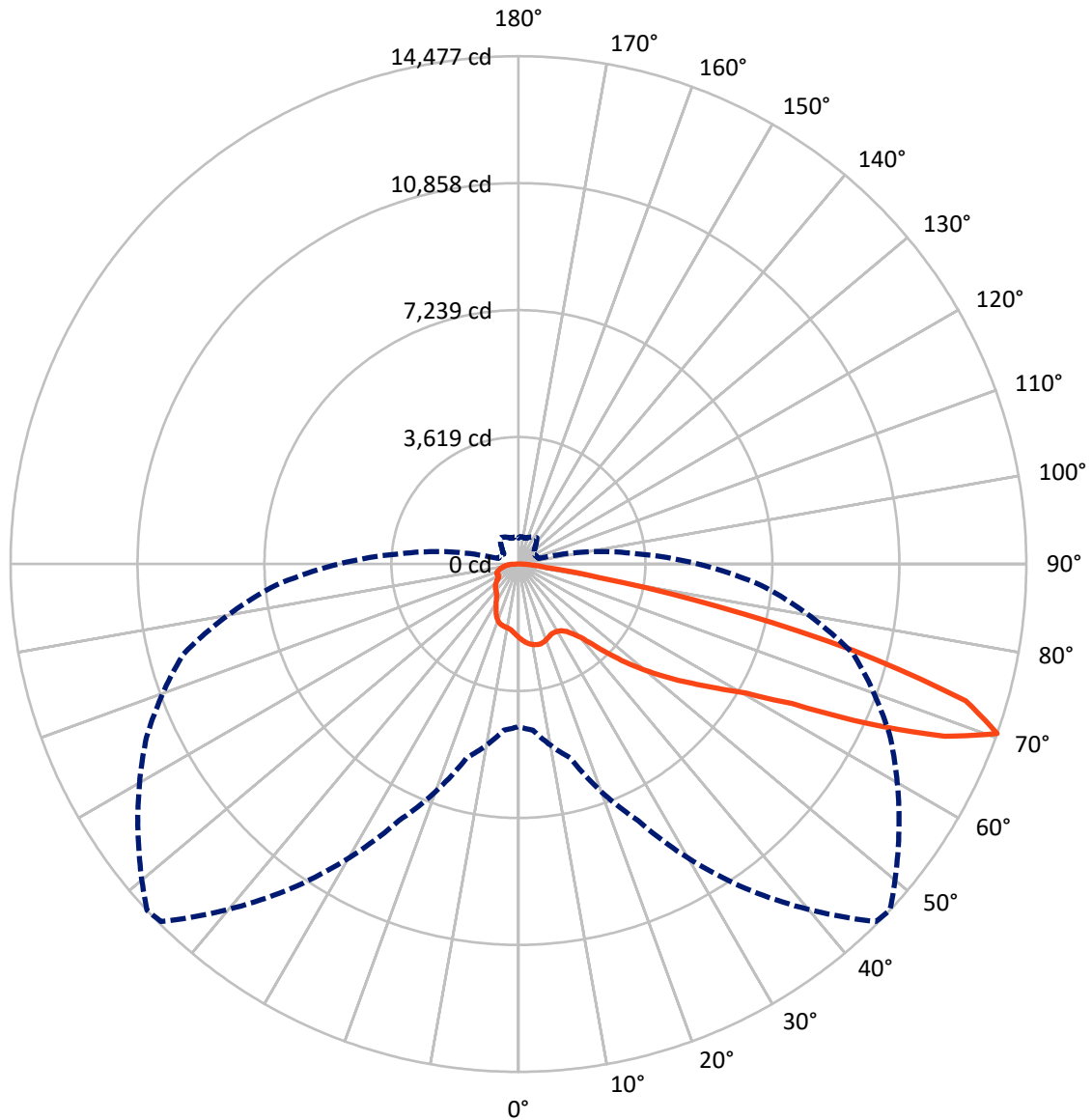


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P192371

CATALOG NUMBER: GAN-AF-03-LED-U-T4W-7050-ADJ

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	3764.5	0.0	3764.5
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	14280.4	0.0	14280.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	18045.0	0.0	18045.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.6	1.1
10°-20°	588.6	3.3
20°-30°	869.2	4.8
30°-40°	1263.3	7.0
40°-50°	2273.5	12.6
50°-60°	3938.6	21.8
60°-70°	5621.5	31.2
70°-80°	2885.8	16.0
80°-90°	404.0	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°	18045.0	100.0
0°-180°	18045.0	100.0

Coefficient of Utilization



REPORT NUMBER: P192371

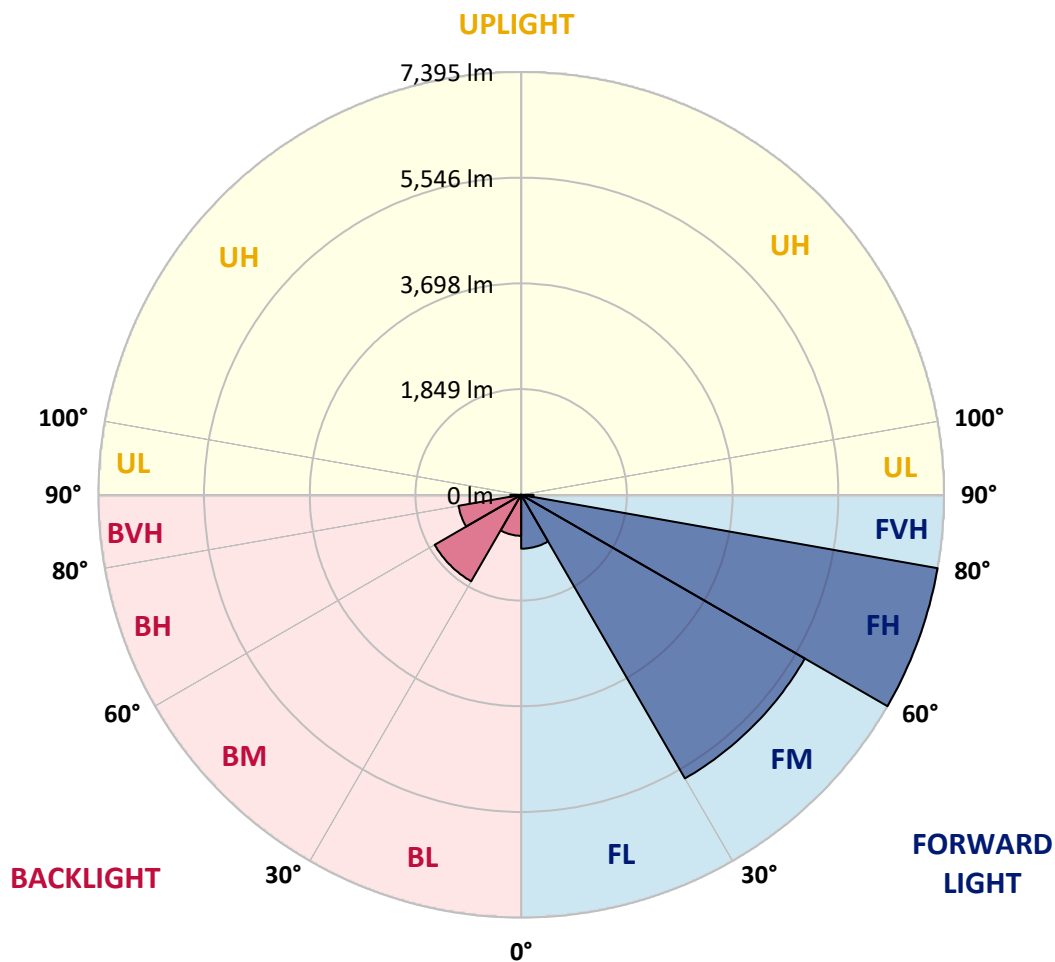
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	941.5	5.2			
FM	(30°-60°)	5728.0	31.7			
FH	(60°-80°)	7395.3	41.0			G3/7500
FVH	(80°-90°)	215.6	1.2			G2/225
BL	(0°-30°)	716.8	4.0	B2/1000		
BM	(30°-60°)	1747.4	9.7	B2/2500		
BH	(60°-80°)	1111.9	6.2	B3/2500		G3/2500
BVH	(80°-90°)	188.4	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





REPORT NUMBER: P192371

CATALOG NUMBER: GAN-AF-03-LED-U-T4W-7050-ADJ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2093.8	2093.8	2093.8	2093.8	2093.8	2093.8	2093.8	2093.8	2093.8	2093.8	2093.8
2.5°	2216.7	2212.3	2210.5	2207.0	2202.6	2180.7	2176.3	2160.5	2138.6	2115.7	2092.0
5°	2362.4	2361.5	2351.9	2334.3	2306.2	2257.9	2246.5	2207.9	2156.1	2106.1	2056.0
7.5°	2490.6	2482.7	2464.3	2429.1	2380.0	2314.1	2298.3	2244.8	2173.7	2105.2	2037.6
10°	2584.5	2580.1	2539.8	2491.5	2427.4	2354.5	2336.1	2276.4	2198.3	2111.3	2027.1
12.5°	2638.1	2629.3	2582.8	2524.8	2448.5	2377.3	2358.9	2298.3	2210.5	2111.3	2012.1
15°	2634.6	2628.4	2581.9	2518.7	2441.4	2379.1	2362.4	2301.8	2207.9	2102.6	1992.8
17.5°	2564.3	2567.0	2527.5	2465.1	2401.9	2354.5	2339.6	2283.4	2190.4	2085.0	1970.0
20°	2441.4	2453.7	2427.4	2372.1	2337.0	2304.5	2294.8	2247.4	2163.1	2059.5	1945.4
22.5°	2318.5	2329.9	2319.4	2272.9	2267.6	2248.3	2243.0	2208.8	2139.4	2043.7	1930.5
25°	2228.1	2238.6	2236.9	2196.5	2212.3	2211.4	2207.0	2190.4	2134.2	2043.7	1933.1
27.5°	2203.5	2207.0	2203.5	2166.6	2188.6	2206.2	2202.6	2200.0	2150.0	2069.2	1966.5
30°	2287.8	2282.5	2255.3	2180.7	2200.9	2225.5	2222.0	2223.7	2197.4	2135.9	2041.1
32.5°	2624.0	2600.3	2514.3	2304.5	2250.9	2264.1	2265.8	2294.8	2299.2	2238.6	2157.0
35°	3127.1	3100.7	2989.2	2636.3	2406.3	2360.7	2360.7	2404.6	2430.9	2386.1	2337.0
37.5°	3659.9	3631.0	3571.3	3096.3	2732.9	2528.3	2524.0	2554.7	2592.4	2603.0	2615.3
40°	4265.7	4235.0	4251.6	3612.5	3188.5	2818.9	2756.6	2734.6	2836.5	2904.1	3002.4
42.5°	4928.5	4914.5	4920.6	4187.6	3707.4	3253.5	3164.8	3051.6	3174.5	3294.7	3501.0
45°	5542.2	5554.4	5548.3	4803.0	4285.0	3783.7	3689.8	3470.3	3590.6	3796.9	4133.1
47.5°	6079.4	6028.5	6107.5	5475.4	4932.0	4377.2	4261.3	3967.2	4089.2	4343.8	4912.7
50°	6731.7	6724.7	6608.8	6372.6	5714.2	4973.3	4821.4	4480.8	4670.4	5024.2	5895.1
52.5°	7417.3	7290.0	7183.8	7070.6	6543.8	5584.3	5398.2	4992.6	5353.4	5798.5	7092.5
55°	7557.8	7500.7	7632.4	7822.9	7343.6	6219.0	6002.2	5634.3	6122.4	6683.4	8473.5
57.5°	7858.0	7857.2	8129.3	8469.1	8167.1	6892.4	6673.8	6409.5	6987.2	7697.4	9939.5
60°	8060.8	8117.9	8623.6	9282.9	8975.6	7670.2	7469.1	7304.1	7970.4	8830.8	11305.5
62.5°	8167.1	8244.3	8934.3	9613.0	10118.6	8965.1	8764.0	8526.1	9271.5	10073.9	12104.4
65°	7725.5	7877.4	8886.1	9898.3	11119.4	11064.1	10973.7	10555.8	10898.2	11056.2	11815.6
67.5°	6503.5	6658.8	7833.5	9632.3	11834.0	13088.6	13107.9	12394.1	11899.0	11140.5	9934.3
70°	4633.5	4755.6	5727.4	8075.8	11289.7	14411.5	14477.4	13241.3	11699.7	9879.8	6940.6
72.5°	2200.0	2274.6	3194.7	5256.0	8958.9	13204.4	13331.7	12159.7	9948.3	7314.6	3786.4
75°	808.5	831.4	1079.8	2236.0	5196.3	9737.6	9887.7	8716.6	6594.8	3641.5	1442.4
77.5°	484.6	499.5	605.7	943.7	2043.7	5565.9	5788.0	4740.6	2882.1	1355.5	709.3
80°	338.9	349.4	434.6	587.3	965.7	2121.0	2318.5	1934.9	1148.3	857.7	516.2
82.5°	229.1	234.4	305.5	396.8	641.7	757.6	817.3	860.3	774.3	638.2	327.5
85°	150.1	155.4	207.2	261.6	408.2	391.5	400.3	506.5	565.4	433.7	181.7
87.5°	86.0	89.5	124.7	139.6	200.2	165.9	167.7	266.9	361.7	292.3	110.6
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: P192371

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2093.8	2093.8	2093.8	2093.8	2093.8	2093.8	2093.8	2093.8	2093.8	2093.8	2093.8
2.5°	2085.9	2074.5	2049.0	2033.2	2018.3	2014.8	2008.6	2007.7	2006.9	2006.9	2004.2
5°	2039.4	2020.0	1980.5	1958.6	1940.1	1938.4	1937.5	1941.9	1943.7	1945.4	1942.8
7.5°	2009.5	1983.2	1934.0	1902.4	1880.5	1875.2	1884.0	1904.2	1917.3	1922.6	1920.0
10°	1991.1	1958.6	1901.5	1867.3	1848.8	1846.2	1857.6	1881.3	1908.5	1919.1	1918.2
12.5°	1970.0	1933.1	1872.6	1836.6	1826.0	1831.3	1846.2	1868.2	1896.3	1912.9	1913.8
15°	1948.9	1905.9	1843.6	1812.0	1807.6	1814.6	1828.7	1845.3	1867.3	1884.0	1885.7
17.5°	1923.5	1878.7	1816.4	1783.9	1780.4	1783.9	1784.8	1793.5	1807.6	1823.4	1827.8
20°	1896.3	1850.6	1785.6	1753.2	1737.4	1723.3	1707.5	1709.3	1713.7	1729.5	1733.0
22.5°	1876.9	1831.3	1761.9	1717.2	1675.0	1632.9	1601.3	1596.9	1598.6	1611.8	1616.2
25°	1878.7	1830.4	1755.8	1678.5	1586.4	1518.8	1476.6	1469.6	1468.7	1478.4	1484.5
27.5°	1912.9	1864.7	1778.6	1639.0	1489.8	1389.7	1344.9	1339.7	1332.6	1335.3	1342.3
30°	1989.3	1944.5	1833.9	1598.6	1385.3	1263.3	1216.8	1211.5	1201.8	1197.5	1202.7
32.5°	2114.0	2077.1	1914.7	1560.0	1280.9	1155.3	1107.9	1096.5	1090.3	1085.1	1089.5
35°	2321.2	2305.4	2022.7	1517.9	1188.7	1071.9	1028.9	1011.3	1002.6	1012.2	1019.2
37.5°	2646.0	2654.8	2164.0	1452.0	1117.6	1016.6	980.6	960.4	947.2	955.2	963.1
40°	3106.0	3112.1	2320.3	1359.0	1056.1	984.1	945.5	927.1	908.6	894.6	893.7
42.5°	3710.0	3647.7	2473.9	1258.0	985.0	963.9	920.9	898.1	870.0	831.4	823.5
45°	4426.4	4207.8	2590.7	1142.1	905.1	939.3	893.7	862.1	818.2	776.1	771.7
47.5°	5251.6	4809.1	2647.7	1021.9	830.5	903.4	860.3	810.3	755.0	733.9	731.3
50°	6259.4	5522.8	2674.9	905.1	765.5	855.9	812.1	753.2	706.7	702.3	699.7
52.5°	7406.8	6381.4	2683.7	809.4	712.0	794.5	772.5	715.5	678.6	682.1	682.1
55°	8607.8	7268.1	2564.3	740.1	662.8	731.3	746.2	700.6	669.8	683.9	689.1
57.5°	9710.4	8053.8	2188.6	686.5	616.3	683.0	736.6	714.6	693.5	750.6	754.1
60°	10556.7	8518.2	1634.6	638.2	582.0	666.3	762.0	768.2	773.4	909.5	927.9
62.5°	10734.0	8363.7	1123.7	600.5	566.2	680.4	808.5	809.4	803.3	898.1	909.5
65°	9920.2	7386.6	817.3	579.4	553.1	705.8	848.0	829.6	789.2	861.2	840.1
67.5°	7878.2	5565.0	680.4	563.6	533.8	704.1	890.2	848.0	781.3	843.7	809.4
70°	5113.7	3365.0	605.7	550.4	510.9	670.7	914.8	846.3	758.5	784.8	744.5
72.5°	2495.0	1504.7	555.7	531.1	487.2	624.2	913.9	830.5	734.8	733.0	711.1
75°	976.2	689.1	510.1	502.2	446.8	571.5	889.3	807.7	706.7	678.6	670.7
77.5°	571.5	491.6	452.1	459.1	398.6	518.8	853.3	768.2	668.1	634.7	625.9
80°	416.1	367.8	385.4	396.8	340.6	466.2	805.0	719.9	625.1	641.7	629.5
82.5°	266.9	237.0	312.5	323.9	283.6	412.6	752.4	669.0	564.5	512.7	500.4
85°	136.1	150.1	232.6	246.7	218.6	338.9	688.3	601.4	496.0	426.7	433.7
87.5°	76.4	102.7	148.4	165.9	154.5	260.7	558.3	496.0	404.7	329.2	289.7
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)