

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: P300434

Luminaire Tested: **GAA-AF-04-LED-U-T4FT-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300434  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-04-LED-U-T4FT-7027-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
Forward Throw OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13778.9 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 129  
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

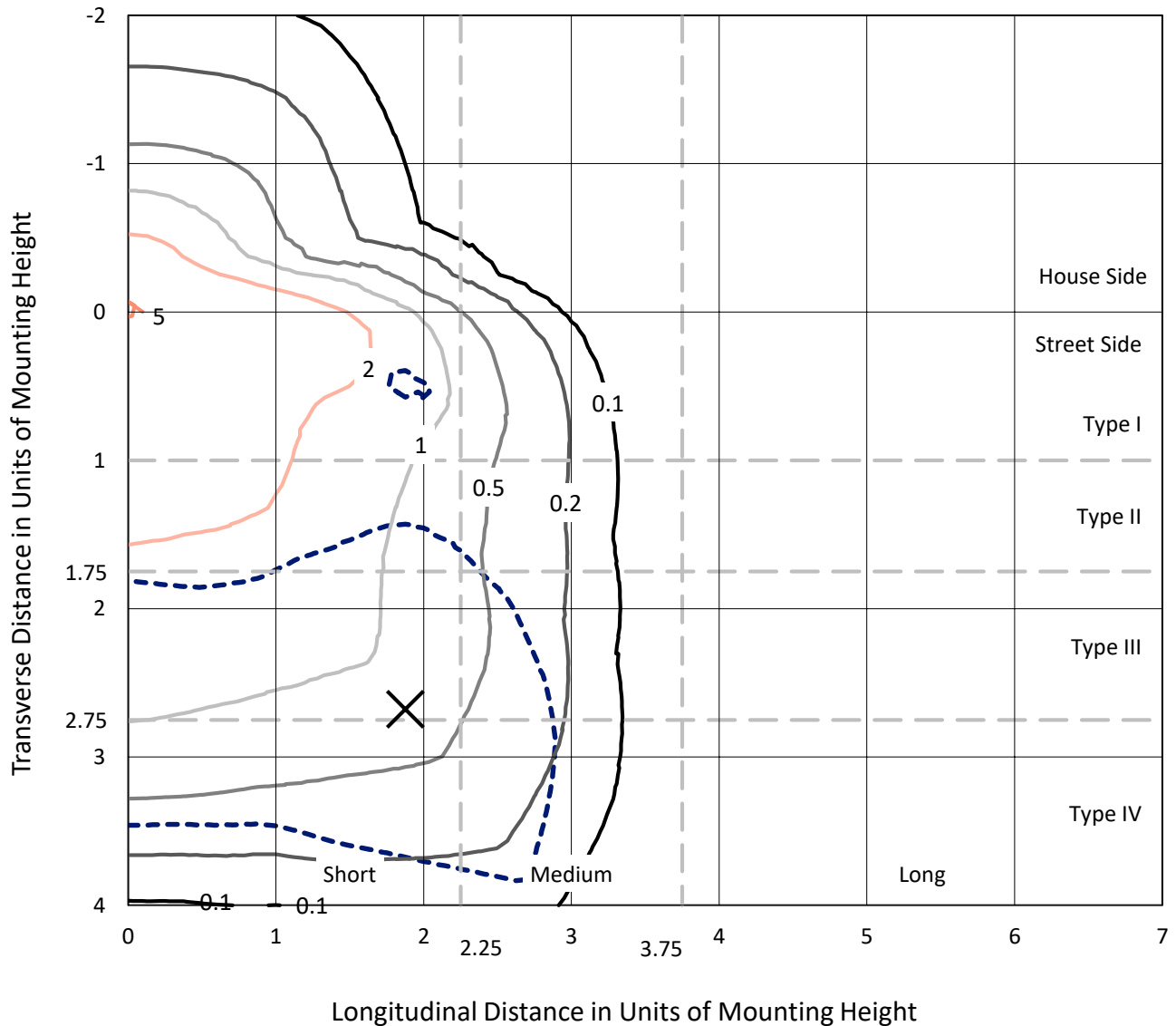


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

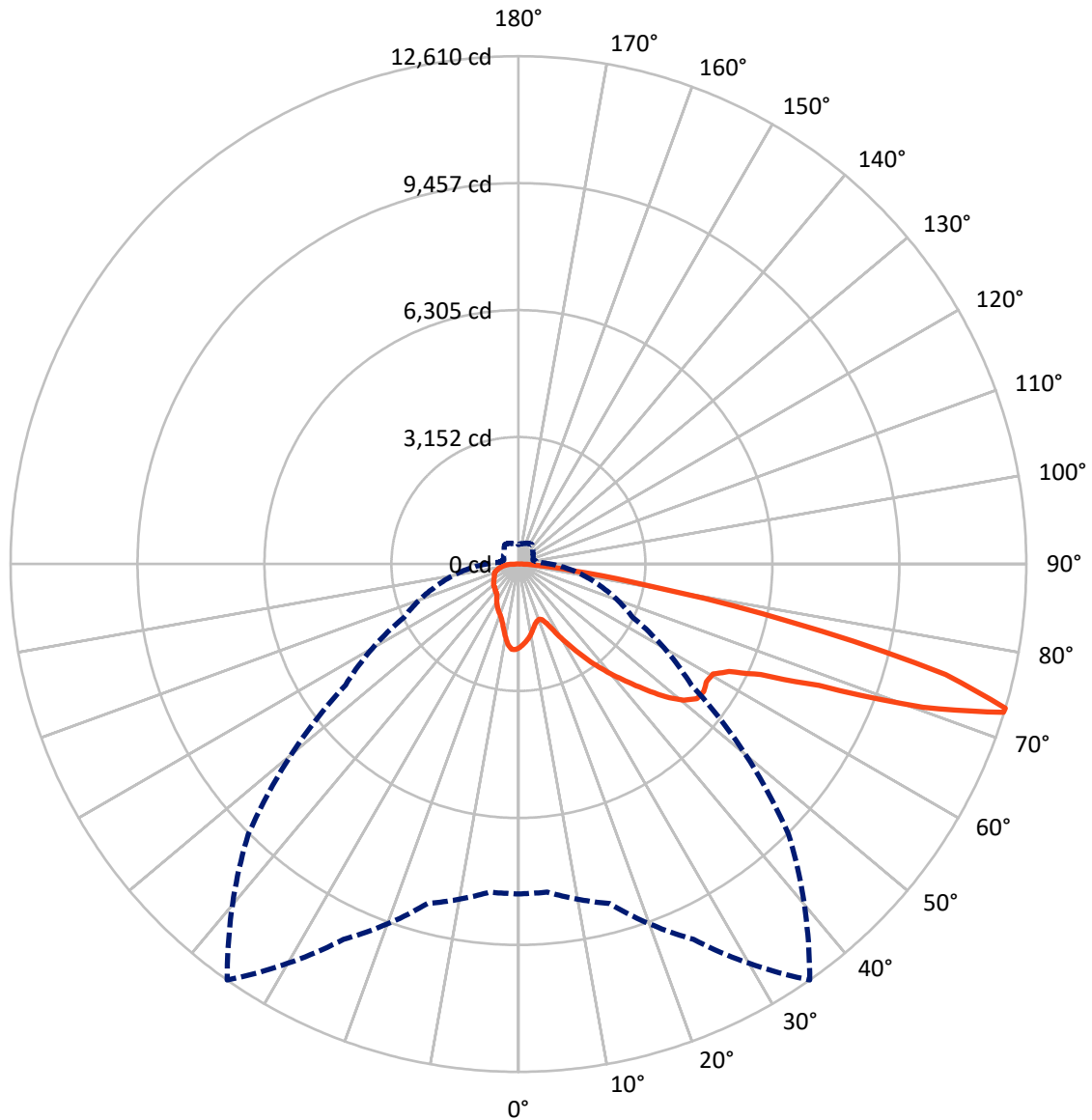


Based on 20 foot mounting height. Maximum calculated value = 5.2 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2628.0	0.0	2628.0
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	11150.9	0.0	11150.9
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	13778.9	0.0	13778.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.3	1.4
10°-20°	469.9	3.4
20°-30°	759.6	5.5
30°-40°	1273.8	9.2
40°-50°	1963.5	14.3
50°-60°	2634.3	19.1
60°-70°	3509.4	25.5
70°-80°	2676.6	19.4
80°-90°	303.4	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°	13778.9	100.0
0°-180°	13778.9	100.0



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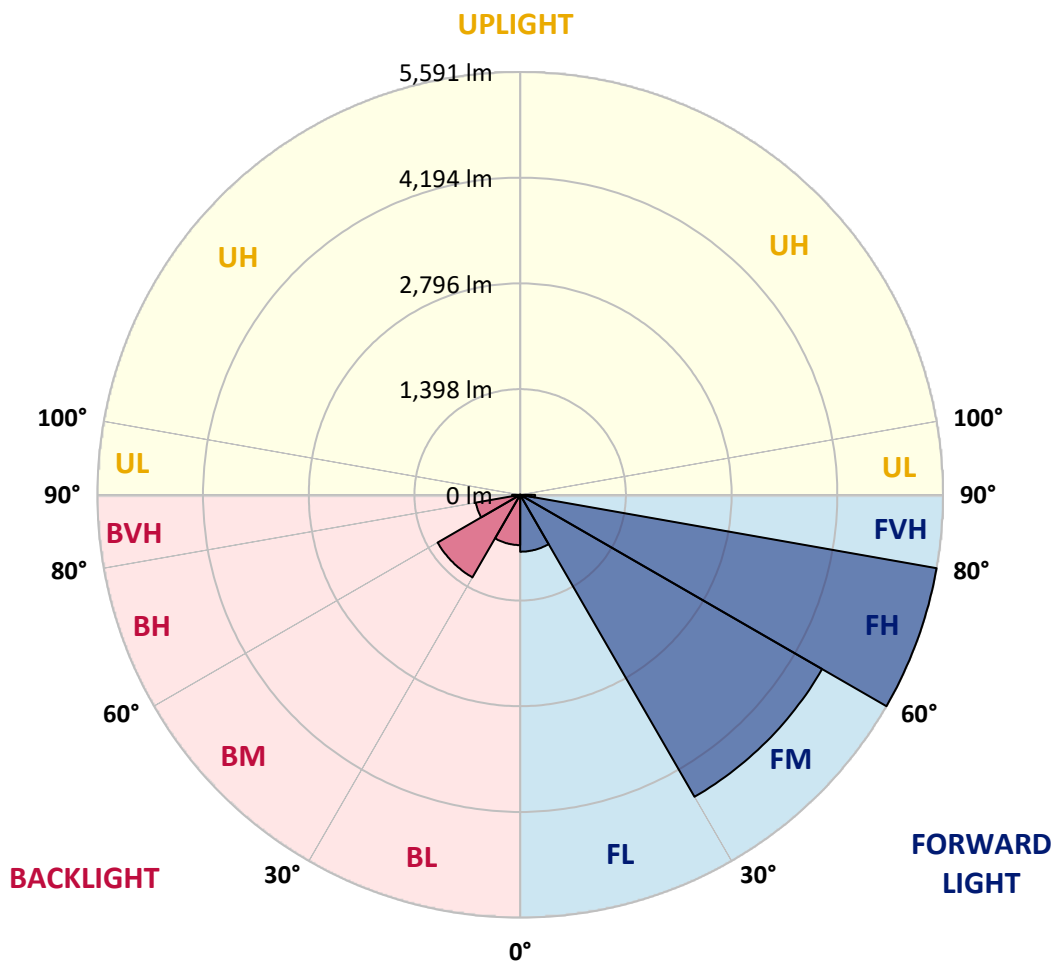
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	752.8	5.5			
FM	(30°-60°)	4610.5	33.5			
FH	(60°-80°)	5591.5	40.6			G3/7500
FVH	(80°-90°)	196.1	1.4			G2/225
BL	(0°-30°)	665.0	4.8	B2/1000		
BM	(30°-60°)	1261.2	9.2	B2/2500		
BH	(60°-80°)	594.6	4.3	B2/1000		G2/1000
BVH	(80°-90°)	107.3	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2079.7	2079.7	2079.7	2079.7	2079.7	2079.7	2079.7	2079.7	2079.7	2079.7	2079.7
2.5°	1997.6	2001.6	1997.0	2002.9	2012.8	2023.4	2030.7	2041.3	2053.2	2069.7	2073.7
5°	1903.7	1909.6	1909.6	1920.2	1939.4	1956.6	1972.5	1989.7	2014.8	2043.3	2054.5
7.5°	1800.4	1803.7	1809.7	1825.6	1853.4	1877.9	1900.4	1928.1	1962.6	2000.3	2020.1
10°	1676.0	1680.7	1689.9	1712.4	1750.2	1783.9	1816.3	1854.7	1898.4	1945.3	1970.5
12.5°	1588.0	1586.7	1590.7	1607.2	1640.3	1681.3	1728.3	1777.3	1830.9	1885.8	1916.2
15°	1558.3	1551.0	1535.8	1531.8	1549.7	1590.7	1644.9	1705.2	1769.3	1835.5	1873.2
17.5°	1576.8	1564.2	1522.5	1492.1	1489.4	1520.5	1578.1	1645.6	1719.7	1800.4	1847.4
20°	1693.2	1663.5	1560.9	1490.1	1465.6	1480.8	1531.1	1602.6	1689.9	1797.1	1857.3
22.5°	1971.8	1928.1	1710.5	1578.8	1496.1	1477.5	1515.3	1591.3	1693.2	1838.2	1914.9
25°	2377.4	2315.2	1967.2	1799.8	1629.1	1530.5	1539.1	1617.2	1740.2	1933.4	2026.1
27.5°	2697.7	2657.3	2302.7	2111.4	1871.2	1673.4	1616.5	1682.0	1836.2	2089.6	2184.2
30°	2888.2	2863.8	2661.3	2464.8	2180.2	1901.0	1764.7	1803.7	1986.4	2306.0	2384.0
32.5°	3109.2	3094.7	2995.4	2814.8	2513.7	2200.1	1999.6	1985.7	2187.5	2566.0	2601.7
35°	3338.2	3333.6	3275.3	3145.6	2871.7	2594.5	2311.3	2217.3	2406.5	2836.0	2813.5
37.5°	3551.3	3543.3	3509.6	3434.1	3246.2	3017.9	2628.9	2454.8	2642.8	3094.0	2994.1
40°	3943.6	3881.4	3765.6	3708.7	3624.7	3374.6	2881.0	2676.5	2887.6	3340.2	3150.3
42.5°	4422.0	4320.8	4105.1	4027.0	4015.1	3655.8	3053.0	2891.6	3134.4	3584.3	3303.8
45°	4798.5	4703.2	4517.3	4418.7	4462.4	3910.5	3225.7	3121.2	3388.5	3840.4	3461.9
47.5°	5200.2	5050.6	4804.5	4834.3	4929.5	4151.4	3401.7	3368.0	3667.0	4126.9	3658.4
50°	5214.7	5100.3	4992.4	5170.4	5318.6	4373.1	3622.1	3626.7	4007.8	4487.5	3919.8
52.5°	4912.3	4887.9	5059.2	5339.1	5552.8	4548.4	3872.8	3894.0	4443.9	4901.7	4207.0
55°	4806.5	4778.7	4976.5	5280.2	5584.6	4693.3	4144.8	4183.2	4971.2	5338.5	4486.9
57.5°	5064.5	5003.0	5016.2	5252.4	5507.2	4852.1	4441.2	4518.6	5544.2	5720.2	4666.9
60°	5785.8	5654.1	5404.0	5398.0	5548.9	5090.3	4784.0	4878.6	6139.8	5902.9	4596.7
62.5°	6797.5	6665.8	6197.3	5892.3	5869.8	5483.4	5204.8	5229.9	6483.8	5655.4	4168.6
65°	7892.6	7774.8	7251.4	6820.6	6612.9	6134.5	5693.8	5386.8	6371.3	4974.5	3419.6
67.5°	9221.9	9095.5	8645.6	8247.9	8048.1	7185.2	6037.2	5236.6	5657.4	3853.6	2458.2
70°	10151.5	10022.5	9845.2	10167.4	10656.4	8701.1	6081.5	4625.8	4225.5	2561.4	1479.5
72.5°	8938.7	8878.5	9202.0	10559.1	12595.8	9620.9	5497.3	3368.0	2454.2	1359.8	856.2
73°	8189.7	8176.4	8728.3	10284.5	12609.7	9479.3	5241.2	3130.4	2104.8	1202.9	782.8
75°	3698.1	3804.7	5014.2	7855.5	10955.5	7811.2	3688.9	1795.8	1189.0	831.1	590.9
77.5°	888.6	925.7	1568.9	3730.6	6918.6	4654.9	1671.4	888.0	760.3	586.9	431.4
80°	378.5	391.1	604.1	1378.3	3257.5	1874.5	770.2	594.9	526.0	409.6	302.4
82.5°	210.4	223.6	342.8	625.3	1314.8	639.2	469.8	414.2	346.1	246.8	196.5
85°	119.1	126.4	200.5	349.4	557.1	256.7	281.2	275.3	195.2	127.0	96.6
87.5°	56.2	60.9	96.6	162.1	218.4	100.6	142.9	157.5	122.4	77.4	50.3
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2079.7	2079.7	2079.7	2079.7	2079.7	2079.7	2079.7	2079.7	2079.7	2079.7
2.5°	2078.3	2090.3	2104.2	2111.4	2118.0	2126.0	2133.9	2133.9	2135.3	2135.9
5°	2063.8	2088.3	2110.1	2119.4	2121.4	2121.4	2119.4	2108.8	2099.5	2103.5
7.5°	2033.4	2069.1	2087.6	2084.3	2059.2	2030.0	2005.6	1975.8	1960.6	1957.9
10°	1989.7	2030.7	2034.0	2000.9	1938.7	1876.5	1824.9	1774.6	1750.8	1744.9
12.5°	1941.4	1979.1	1957.9	1889.8	1789.9	1699.2	1633.7	1582.7	1560.2	1554.3
15°	1902.3	1928.1	1874.5	1767.4	1641.6	1545.7	1491.4	1453.7	1437.8	1433.2
17.5°	1881.8	1887.1	1789.2	1644.3	1510.6	1430.6	1396.8	1378.9	1373.0	1369.7
20°	1891.8	1854.7	1707.8	1529.8	1403.4	1347.2	1339.2	1334.6	1333.3	1331.3
22.5°	1941.4	1844.8	1633.0	1421.3	1309.5	1285.0	1291.6	1290.9	1289.6	1288.3
25°	2030.0	1853.4	1560.2	1318.1	1230.7	1225.4	1237.3	1237.3	1232.1	1232.1
27.5°	2147.2	1871.2	1478.9	1220.1	1159.3	1159.9	1169.2	1166.5	1160.6	1156.6
30°	2290.1	1882.5	1383.6	1132.1	1092.4	1089.8	1092.4	1081.2	1063.3	1062.0
32.5°	2436.3	1868.6	1273.1	1054.1	1021.6	1015.7	1013.7	997.8	977.3	971.4
35°	2568.7	1817.6	1160.6	991.9	954.1	940.9	950.2	944.9	926.4	921.7
37.5°	2665.3	1723.0	1059.4	936.9	905.8	902.5	908.5	910.5	888.6	884.0
40°	2730.1	1594.7	972.7	890.6	896.6	884.0	864.2	850.3	843.6	841.7
42.5°	2782.4	1461.0	899.9	868.8	898.6	862.2	819.2	796.7	808.6	813.9
45°	2842.6	1330.6	839.0	841.7	888.6	837.0	788.1	766.2	770.9	772.2
47.5°	2925.3	1171.8	773.5	798.0	855.6	819.8	768.9	737.8	715.9	706.0
50°	3039.8	983.9	705.4	749.0	823.1	807.3	739.1	706.0	665.7	656.4
52.5°	3119.2	808.6	649.1	708.0	794.0	782.1	715.3	672.3	629.9	622.0
55°	3076.2	671.6	600.1	662.3	755.6	751.0	695.4	637.9	604.8	598.2
57.5°	2861.1	584.9	562.4	619.3	708.7	724.5	669.0	608.7	584.9	580.3
60°	2450.9	530.7	538.6	590.2	670.3	698.1	642.5	592.9	577.0	573.7
62.5°	1901.7	494.3	520.7	569.0	640.5	679.5	627.9	590.9	584.9	581.0
65°	1362.4	465.2	501.6	547.9	613.4	662.3	622.6	588.2	589.6	586.3
67.5°	925.7	439.4	478.4	524.1	586.9	647.1	615.4	579.0	595.5	591.5
70°	647.8	414.2	451.3	493.6	553.8	626.0	602.1	565.1	563.8	547.9
72.5°	505.5	381.1	414.2	451.3	511.5	596.2	575.7	534.0	512.1	495.6
73°	482.4	373.2	405.0	442.0	502.2	588.9	568.4	525.4	500.9	485.7
75°	399.0	338.8	367.9	401.0	462.5	554.5	532.7	486.3	455.2	446.0
77.5°	313.6	289.8	317.6	347.4	407.6	504.2	479.7	435.4	418.2	410.2
80°	232.3	240.2	264.7	291.1	353.3	450.6	428.8	384.4	461.2	442.0
82.5°	163.4	182.0	204.5	228.3	296.4	398.3	371.9	326.2	337.5	280.6
85°	96.6	119.1	140.3	160.8	213.7	330.2	307.0	260.0	213.1	203.1
87.5°	56.2	66.2	72.1	93.3	146.9	248.8	216.4	192.5	110.5	74.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)