

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: P301218

Luminaire Tested: **GAA-AF-04-LED-U-T3R-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P301218  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194839)  
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-T3R-7027-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III  
Roadway OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

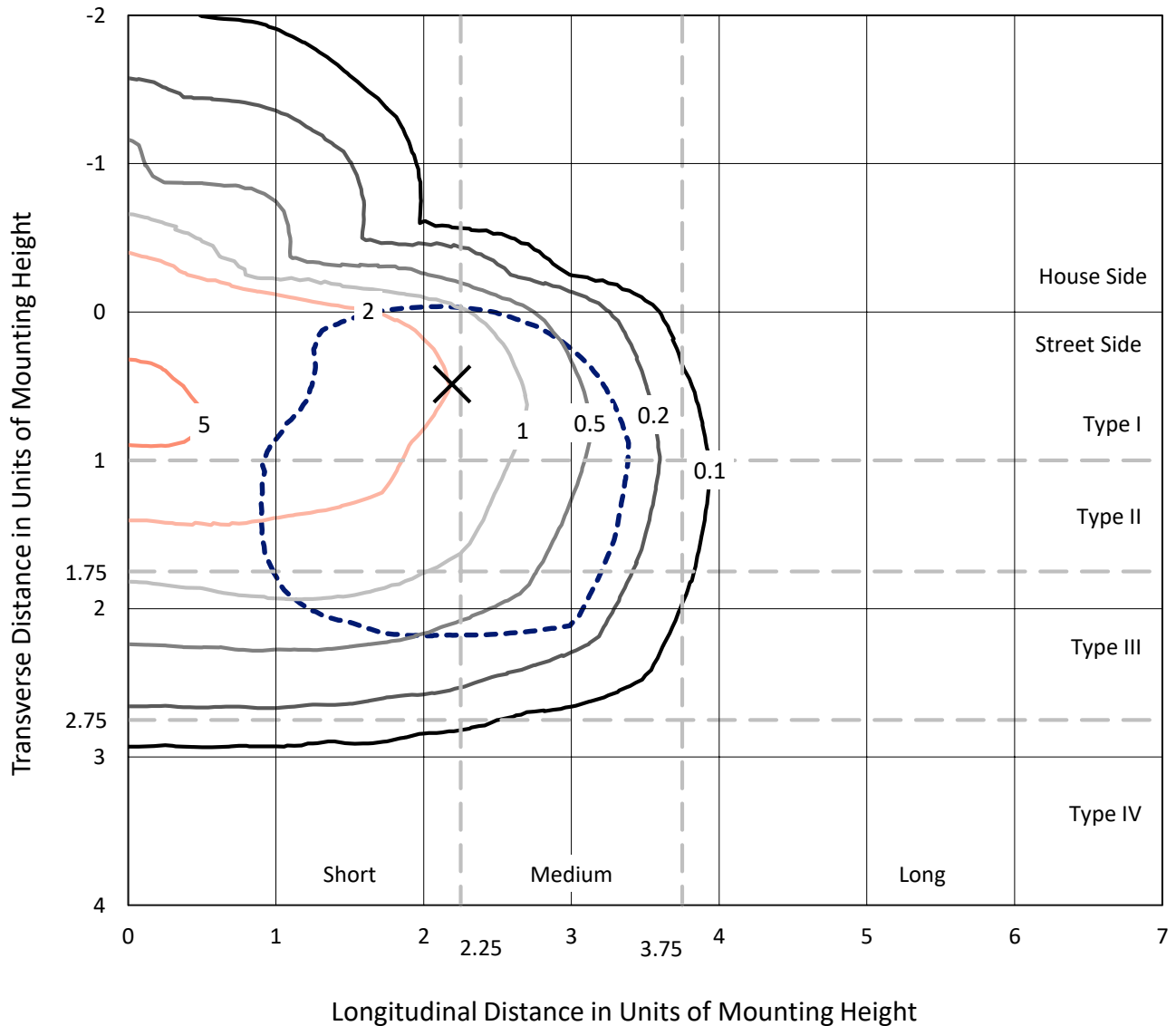
Lumens per Lamp: N/A  
Luminaire Lumens: 14002.2 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (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

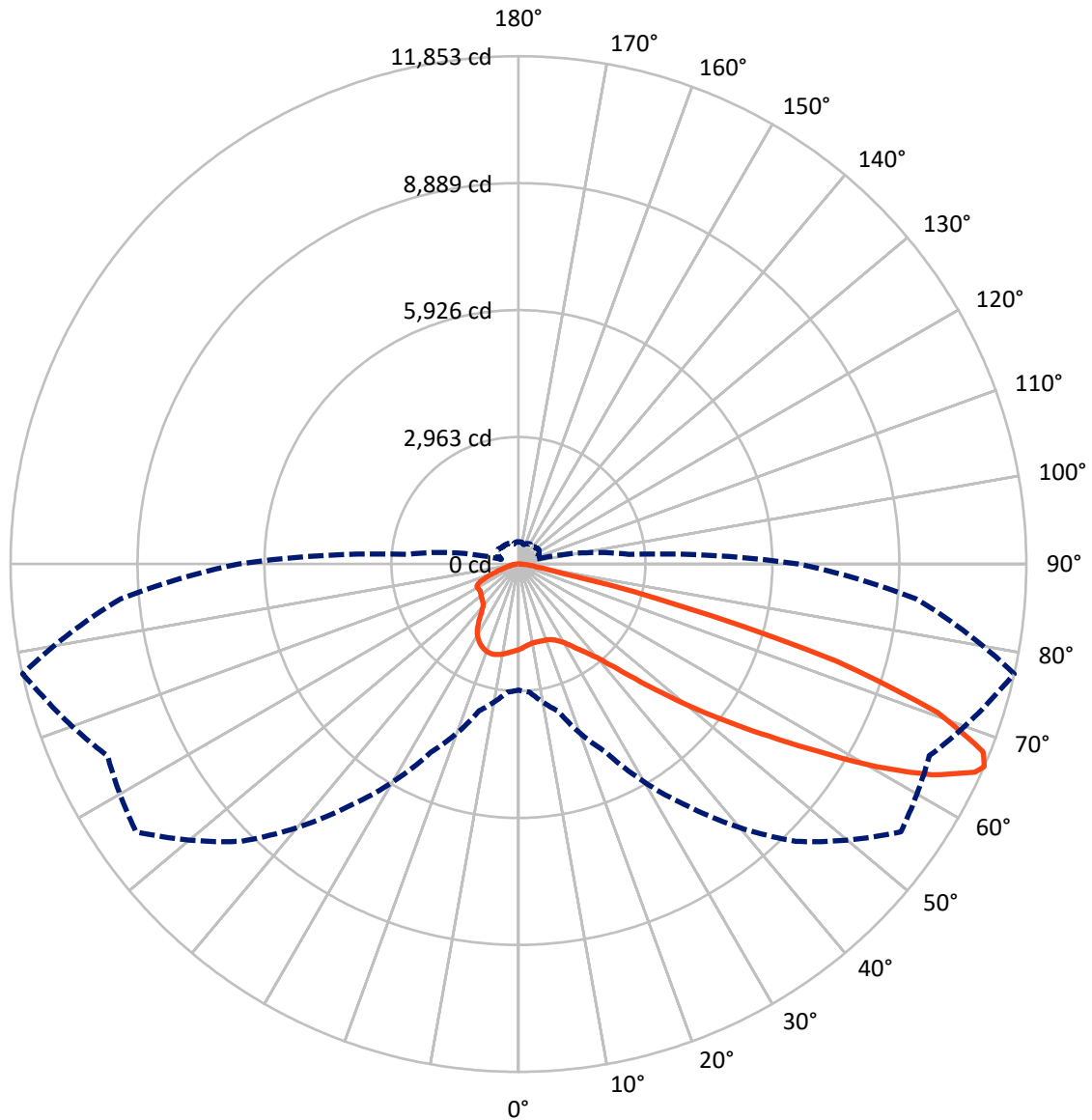
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2392.2	0.0	2392.2
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	11610.0	0.0	11610.0
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	14002.2	0.0	14002.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.3	1.3
10°-20°	502.9	3.6
20°-30°	858.3	6.1
30°-40°	1374.0	9.8
40°-50°	2122.7	15.2
50°-60°	3010.8	21.5
60°-70°	4027.6	28.8
70°-80°	1749.1	12.5
80°-90°	178.3	1.3
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°	14002.2	100.0
0°-180°	14002.2	100.0



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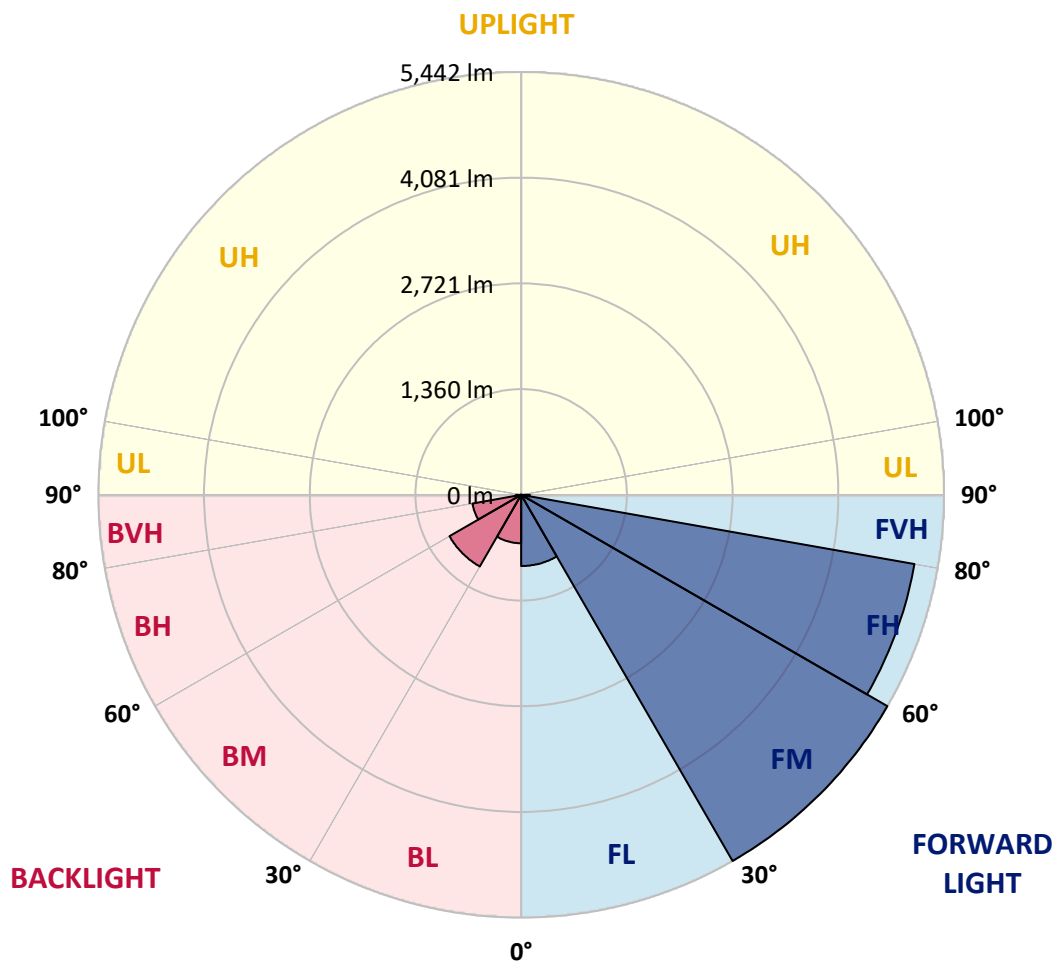
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	916.5	6.5			
FM	(30°-60°)	5442.0	38.9			
FH	(60°-80°)	5139.7	36.7			G3/7500
FVH	(80°-90°)	111.9	0.8			G2/225
BL	(0°-30°)	623.0	4.4	B2/1000		
BM	(30°-60°)	1065.6	7.6	B2/2500		
BH	(60°-80°)	637.1	4.5	B2/1000		G2/1000
BVH	(80°-90°)	66.5	0.5			G1/100
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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1995.4	1995.4	1995.4	1995.4	1995.4	1995.4	1995.4	1995.4	1995.4	1995.4	1995.4
2.5°	1765.2	1777.0	1787.0	1796.2	1814.7	1845.1	1880.2	1908.6	1949.7	1957.7	1979.5
5°	1603.1	1603.1	1610.9	1625.0	1650.0	1695.7	1743.4	1806.9	1896.2	1917.2	1975.5
7.5°	1524.4	1525.0	1529.6	1541.4	1563.3	1604.9	1657.2	1732.1	1853.1	1888.2	1987.3
10°	1553.5	1546.8	1536.8	1531.0	1534.2	1558.7	1608.3	1691.7	1826.7	1871.6	2014.0
12.5°	1716.1	1703.7	1669.2	1623.6	1579.9	1562.1	1591.1	1672.4	1815.5	1867.8	2049.0
15°	1982.1	1976.9	1912.6	1818.1	1712.3	1623.6	1603.7	1665.2	1816.7	1872.4	2090.7
17.5°	2315.7	2308.3	2223.7	2086.1	1913.4	1740.8	1648.0	1671.2	1821.3	1880.2	2131.0
20°	2652.4	2629.8	2538.6	2374.6	2152.8	1900.0	1721.5	1686.5	1827.3	1888.8	2173.4
22.5°	2903.8	2885.2	2803.2	2643.8	2388.4	2084.7	1820.1	1712.9	1846.5	1914.0	2225.5
25°	3124.7	3125.9	3044.6	2890.6	2626.6	2280.6	1947.1	1783.6	1895.4	1965.5	2297.0
27.5°	3398.0	3382.2	3306.0	3153.2	2862.1	2478.3	2100.5	1881.0	1968.3	2039.0	2391.0
30°	3724.7	3713.5	3625.5	3452.3	3123.3	2690.7	2275.8	1994.0	2062.3	2135.6	2514.0
32.5°	4109.1	4103.9	4012.6	3789.6	3425.0	2940.9	2481.7	2143.6	2202.5	2278.6	2690.7
35°	4560.4	4561.0	4453.2	4185.2	3755.1	3231.9	2715.1	2336.1	2373.2	2452.5	2901.2
37.5°	4838.3	4871.9	4831.6	4558.4	4128.9	3557.4	3018.2	2591.5	2567.7	2647.8	3126.7
40°	4897.8	4938.8	5066.4	4927.6	4547.2	3916.0	3286.8	2836.9	2807.2	2905.0	3417.2
42.5°	4814.4	4871.3	5141.3	5239.1	4991.1	4357.9	3648.0	3201.5	3163.8	3295.4	3778.4
45°	4764.7	4807.2	5119.5	5401.3	5376.1	4857.5	4107.9	3659.2	3645.4	3818.0	4195.2
47.5°	4678.8	4717.3	5017.5	5439.0	5602.5	5315.2	4660.4	4219.1	4246.1	4472.5	4665.6
50°	4725.1	4740.9	4903.8	5343.1	5668.0	5650.7	5277.6	4867.3	4960.1	5242.5	5198.2
52.5°	4718.5	4759.5	4890.5	5185.6	5676.6	5857.9	5885.5	5590.4	5785.8	6109.9	5789.0
55°	3814.8	3890.2	4735.1	5145.9	5706.8	6060.8	6426.8	6352.7	6716.4	7094.2	6455.8
57.5°	3642.8	3690.4	4158.8	5229.3	5868.3	6448.6	7028.7	7191.6	7800.1	8238.8	7268.3
60°	3608.9	3667.8	4152.8	5331.2	6195.8	7080.4	7921.3	8207.2	9118.8	9599.2	8210.4
62.5°	3503.7	3567.2	4113.7	5317.8	6660.9	7954.4	9063.9	9286.9	10369.2	10836.4	8998.4
65°	3170.4	3229.9	3795.6	5104.3	6974.6	8887.3	10416.1	10276.7	11356.4	11707.5	9391.3
66°	2942.1	3000.3	3544.8	4852.9	6901.7	9151.9	10895.2	10583.0	11577.3	11852.6	9314.5
67.5°	2524.6	2570.3	3057.8	4289.8	6514.7	9226.0	11298.1	10813.1	11600.4	11697.7	8876.0
70°	1595.1	1608.3	1987.3	2961.3	4931.6	8001.3	10684.7	10241.6	10643.8	10380.4	7441.0
72.5°	692.1	687.5	954.1	1506.4	2792.0	5368.9	8643.1	8450.6	8349.4	7748.7	5208.8
75°	385.0	390.4	495.6	699.3	1134.6	2637.2	5653.9	5410.6	4568.2	3898.2	2361.9
77.5°	308.9	316.3	410.9	496.2	509.4	919.7	2645.8	2152.8	1296.1	1040.0	656.2
80°	244.2	257.4	358.6	386.4	343.3	379.0	854.8	683.5	512.8	470.3	340.1
82.5°	193.1	202.5	307.7	292.5	240.2	255.4	409.4	399.0	333.5	303.7	196.5
85°	139.0	156.0	252.8	220.3	157.4	172.1	271.8	260.6	191.1	156.0	86.7
87.5°	56.9	74.1	178.7	146.2	87.9	80.1	135.6	127.6	90.5	66.1	43.1
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°	1995.4	1995.4	1995.4	1995.4	1995.4	1995.4	1995.4	1995.4	1995.4	1995.4	1995.4
2.5°	1993.4	2009.2	2029.8	2042.4	2049.0	2053.7	2060.9	2060.3	2062.3	2062.9	2065.5
5°	2006.6	2033.0	2062.9	2070.9	2070.9	2063.5	2056.3	2044.2	2039.6	2038.4	2039.6
7.5°	2041.0	2070.1	2095.9	2086.7	2066.9	2037.6	2000.0	1966.9	1949.1	1943.1	1941.9
10°	2084.7	2119.8	2130.4	2095.3	2037.0	1966.9	1892.2	1837.9	1806.9	1798.2	1795.6
12.5°	2137.6	2170.6	2156.2	2082.1	1974.1	1861.1	1757.8	1671.2	1606.3	1585.9	1584.5
15°	2195.9	2221.7	2170.6	2041.0	1880.2	1713.5	1529.6	1380.2	1299.5	1273.6	1271.6
17.5°	2250.2	2263.4	2162.0	1969.5	1742.0	1472.1	1227.9	1112.8	1085.1	1091.7	1092.9
20°	2296.4	2296.4	2133.0	1867.0	1524.4	1153.8	999.6	997.8	1017.6	1037.4	1041.4
22.5°	2347.3	2316.9	2082.1	1722.1	1215.9	944.1	921.7	940.1	962.5	984.4	987.8
25°	2410.2	2333.5	2011.2	1502.6	955.9	857.4	866.0	881.2	892.4	906.4	908.4
27.5°	2480.3	2354.5	1918.0	1200.1	829.7	803.3	809.9	815.1	813.7	819.1	820.3
30°	2564.3	2379.2	1790.2	938.1	777.4	756.8	745.0	740.4	740.4	749.0	752.2
32.5°	2676.8	2415.4	1606.9	803.9	752.2	723.7	685.5	668.3	674.9	703.9	710.5
35°	2800.6	2454.5	1359.0	758.2	747.0	708.5	649.0	617.2	618.0	645.0	653.6
37.5°	2935.4	2504.2	1086.9	749.6	758.8	709.3	629.8	586.1	568.3	568.3	571.7
40°	3108.1	2555.0	880.0	755.6	784.0	717.1	620.0	561.7	511.4	512.8	515.4
42.5°	3333.1	2598.7	768.8	768.0	814.5	727.8	619.2	529.2	485.6	515.4	542.5
45°	3583.3	2620.5	719.7	779.4	838.9	734.4	608.8	524.0	489.0	577.5	629.2
47.5°	3870.9	2607.9	692.7	783.2	844.9	734.4	596.7	536.6	512.0	668.9	729.2
50°	4186.6	2571.7	666.3	775.4	842.9	733.0	608.0	549.1	520.6	684.7	726.3
52.5°	4557.8	2541.2	638.4	758.2	828.9	725.7	621.2	543.9	493.6	622.6	651.6
55°	4981.1	2549.8	607.4	733.8	807.1	711.9	616.6	522.6	465.1	548.5	566.3
57.5°	5522.3	2652.4	570.3	702.7	777.4	688.7	600.1	512.8	456.5	497.6	508.2
60°	6126.3	2830.9	524.0	671.5	740.4	651.6	587.5	517.4	460.5	493.6	498.8
62.5°	6569.6	2934.8	484.4	625.8	690.1	610.6	571.7	523.2	471.1	507.4	506.2
65°	6690.0	2764.2	434.7	559.1	622.0	567.7	551.7	529.8	475.8	518.6	512.8
66°	6521.3	2580.3	412.9	528.0	587.5	546.5	541.9	529.2	473.7	520.0	510.0
67.5°	6111.9	2203.1	375.2	482.4	532.6	514.8	526.0	523.2	468.3	518.6	504.8
70°	4984.5	1503.2	320.9	401.6	443.3	453.1	495.6	502.2	451.1	495.6	465.1
72.5°	3482.7	915.6	283.8	311.7	358.6	386.4	453.9	472.9	428.1	432.7	403.6
75°	1683.1	486.4	257.4	241.6	278.4	322.9	403.6	433.3	391.6	362.0	351.4
77.5°	524.6	297.1	218.3	194.5	218.3	260.6	337.3	379.8	348.8	303.1	299.1
80°	281.8	218.3	168.1	156.0	172.7	204.5	265.2	316.9	299.7	271.8	242.8
82.5°	185.9	141.6	124.4	121.0	131.6	156.0	197.1	262.6	262.6	233.0	169.5
85°	96.0	86.7	85.3	85.3	91.9	104.0	134.2	202.5	215.7	123.0	102.0
87.5°	47.7	49.7	46.3	48.3	51.7	50.9	64.1	102.0	121.8	74.7	62.1
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)