

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: P300973

Luminaire Tested: **GAA-AF-03-LED-U-SL4-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300973  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-03-LED-U-SL4-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Square Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10964.6 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 96  
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

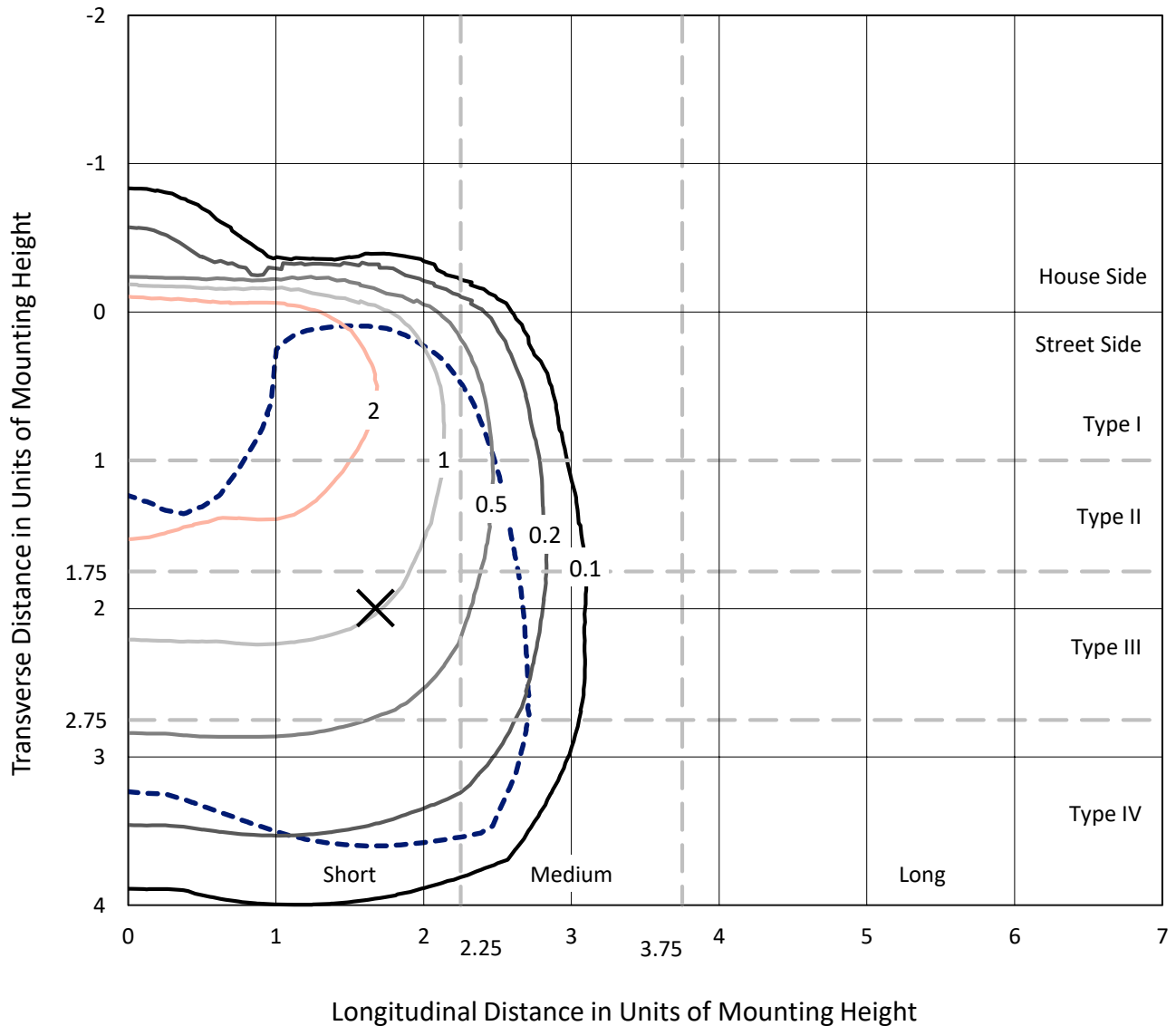


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### Iso-Footcandle Lines of Horizontal Illumination

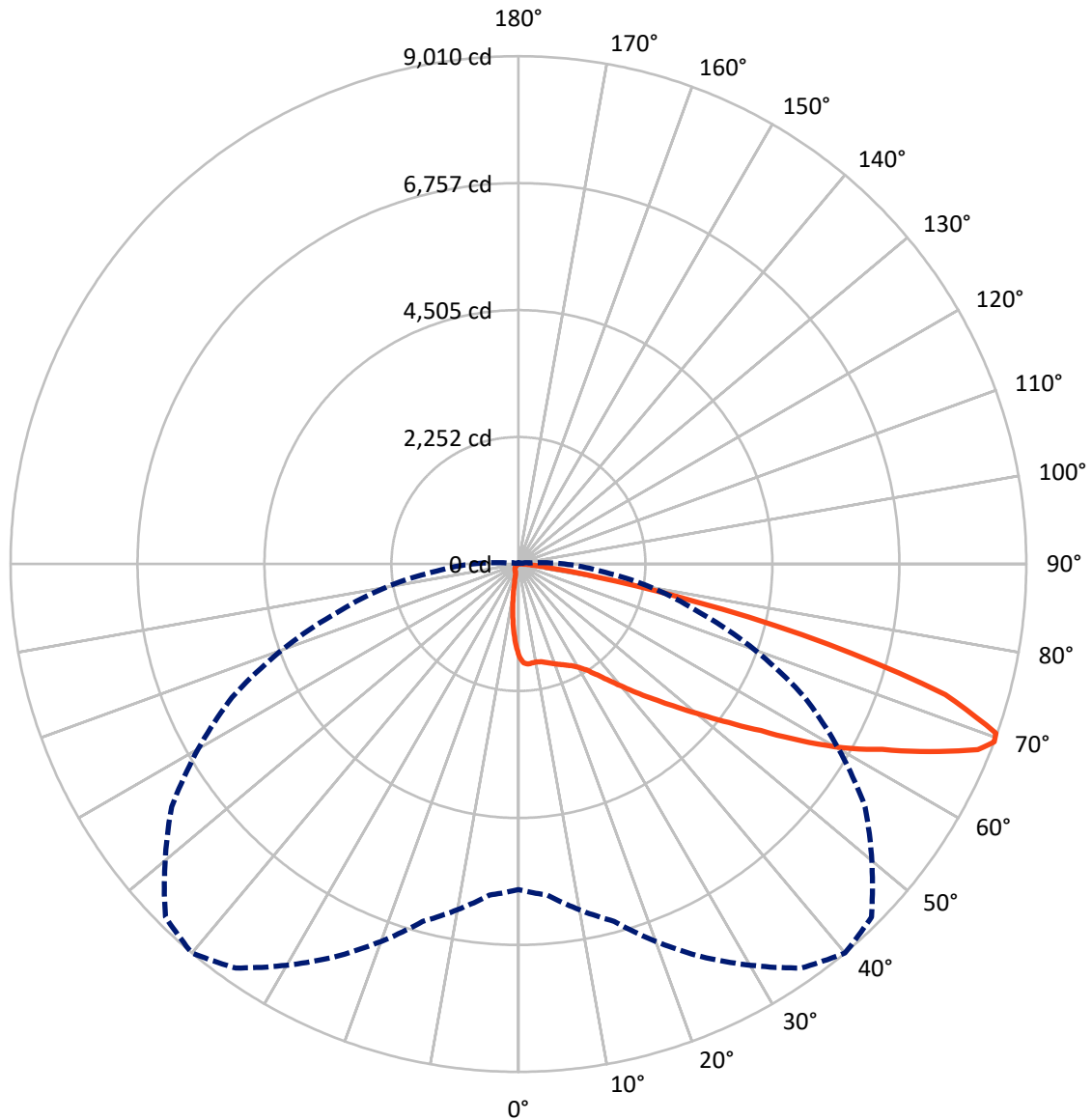
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	641.5	0.0	641.5
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	10323.1	0.0	10323.1
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	10964.6	0.0	10964.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.8	1.2
10°-20°	326.6	3.0
20°-30°	550.2	5.0
30°-40°	900.6	8.2
40°-50°	1559.4	14.2
50°-60°	2456.3	22.4
60°-70°	3207.8	29.3
70°-80°	1652.1	15.1
80°-90°	178.7	1.6
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°	10964.6	100.0
0°-180°	10964.6	100.0

**Coefficient of Utilization**



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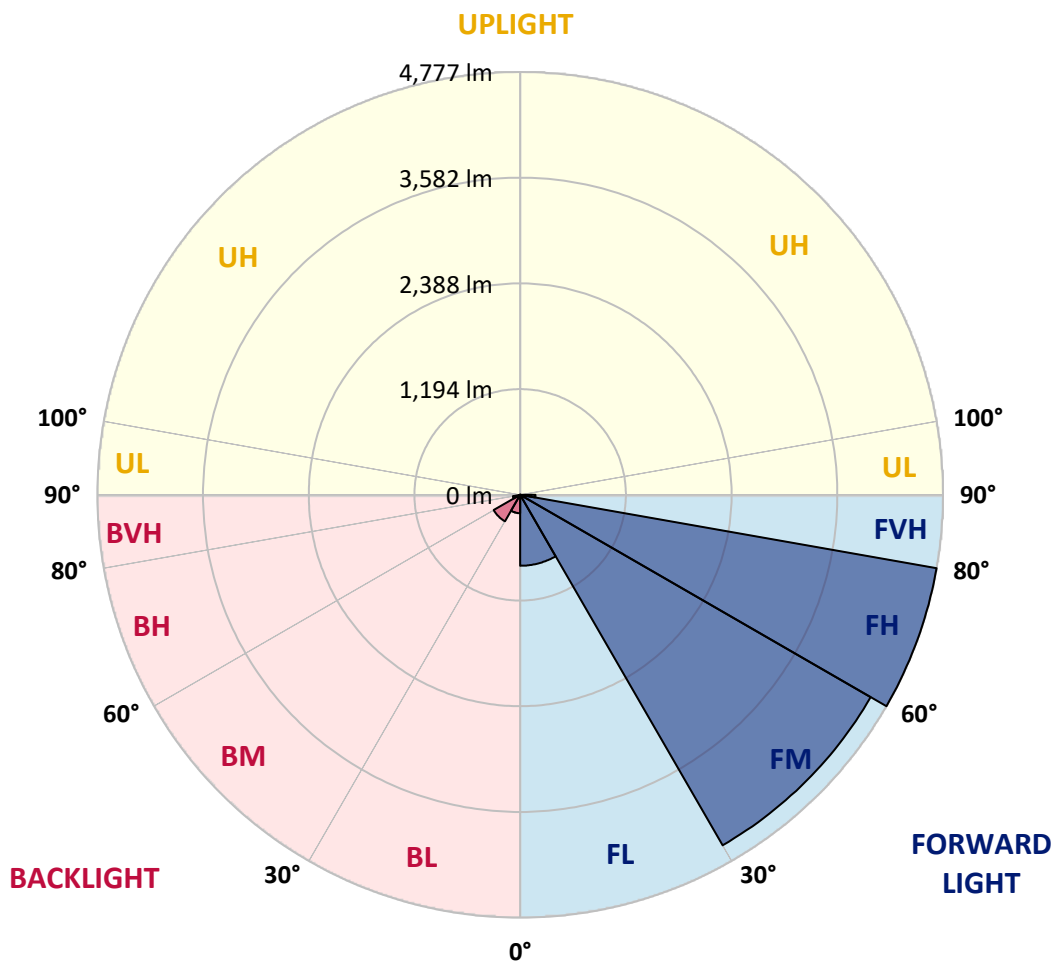
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	801.8	7.3			
FM	(30°-60°)	4571.5	41.7			
FH	(60°-80°)	4776.6	43.6			G2/5000
FVH	(80°-90°)	173.1	1.6			G2/225
BL	(0°-30°)	207.8	1.9	B1/500		
BM	(30°-60°)	344.8	3.1	B1/1000		
BH	(60°-80°)	83.3	0.8	B0/110		G0/110
BVH	(80°-90°)	5.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1638.2	1638.2	1638.2	1638.2	1638.2	1638.2	1638.2	1638.2	1638.2	1638.2	1638.2
2.5°	1798.7	1788.9	1783.1	1775.2	1765.4	1756.9	1753.7	1729.5	1706.7	1675.4	1639.5
5°	1832.0	1828.7	1818.3	1807.9	1796.1	1783.1	1775.9	1747.2	1714.5	1668.8	1606.2
7.5°	1835.3	1831.3	1818.3	1803.9	1787.6	1772.0	1759.6	1730.8	1700.8	1654.5	1578.1
10°	1830.0	1825.5	1815.7	1800.0	1779.8	1764.8	1752.4	1725.0	1699.5	1657.7	1572.9
12.5°	1824.2	1819.6	1815.0	1807.2	1789.6	1779.1	1768.7	1742.6	1719.7	1684.5	1591.8
15°	1830.0	1827.4	1832.7	1829.4	1819.6	1810.5	1800.0	1776.5	1755.6	1726.3	1626.4
17.5°	1854.8	1854.8	1871.2	1873.1	1864.0	1850.9	1835.9	1812.4	1794.8	1770.0	1667.5
20°	1912.9	1911.0	1931.9	1935.8	1913.6	1893.4	1871.2	1842.4	1828.7	1813.1	1708.0
22.5°	2012.8	2003.6	2016.0	2012.1	1968.4	1937.1	1909.7	1874.4	1867.2	1860.1	1753.0
25°	2142.7	2137.4	2145.9	2107.4	2030.4	1988.0	1955.4	1915.5	1915.5	1922.7	1803.9
27.5°	2331.3	2311.7	2283.0	2215.1	2099.6	2045.4	2010.2	1967.8	1978.8	2005.6	1871.2
30°	2524.5	2502.9	2437.0	2332.6	2183.8	2127.0	2085.9	2041.5	2067.6	2116.6	1961.2
32.5°	2715.0	2690.9	2597.6	2465.7	2304.5	2247.7	2207.9	2159.0	2202.7	2284.9	2093.1
35°	2899.7	2878.2	2770.5	2615.2	2465.1	2418.1	2381.5	2339.1	2395.2	2510.1	2279.1
37.5°	3107.3	3083.8	2952.6	2784.2	2660.2	2626.3	2599.5	2557.1	2655.0	2823.4	2538.2
40°	3362.5	3322.7	3145.8	2978.1	2886.0	2869.7	2851.4	2845.6	2997.6	3230.6	2883.4
42.5°	3654.9	3589.6	3348.1	3182.3	3134.0	3145.8	3141.2	3167.3	3426.4	3737.1	3303.7
45°	3947.3	3863.1	3573.3	3400.3	3406.9	3448.0	3473.4	3577.9	3963.6	4318.0	3756.0
47.5°	4195.3	4112.4	3789.3	3635.9	3714.3	3795.2	3864.4	4062.1	4515.7	4889.7	4107.8
50°	4407.4	4329.1	4018.4	3895.0	4071.3	4201.8	4314.0	4607.1	5109.6	5325.0	4354.5
52.5°	4581.0	4528.8	4256.0	4192.0	4479.2	4670.4	4834.9	5186.0	5635.7	5678.7	4546.4
55°	4750.0	4712.8	4511.1	4545.1	4958.2	5218.6	5426.8	5800.1	6088.6	5973.7	4730.4
57.5°	4944.5	4910.6	4802.2	4992.8	5588.0	5915.7	6142.8	6344.5	6487.4	6275.3	4904.0
60°	5142.9	5123.3	5125.9	5490.1	6311.2	6625.7	6751.1	6803.3	6879.0	6559.2	4913.8
62.5°	5332.2	5369.4	5496.0	6043.6	7003.6	7245.1	7308.4	7360.0	7271.2	6604.2	4539.9
65°	5652.6	5713.3	6015.5	6784.3	7765.3	8023.7	8089.0	7912.1	7333.2	6022.0	3692.7
67.5°	5809.3	5920.2	6459.3	7474.9	8504.1	8791.3	8767.1	7948.0	6580.7	4592.1	2369.8
69°	5776.6	5894.8	6561.8	7686.3	8749.5	9009.9	8856.5	7508.8	5606.3	3326.6	1454.8
70°	5647.4	5766.9	6508.9	7678.5	8780.8	8987.1	8690.7	6966.4	4740.2	2432.4	909.8
72.5°	4716.1	4819.2	5778.6	6940.3	8089.0	7921.3	7270.6	4826.4	2309.7	662.4	204.9
75°	2903.0	2960.4	4146.3	5228.4	6109.5	5678.7	4844.0	2401.1	688.6	187.3	113.6
77.5°	1533.7	1559.8	2269.9	3081.8	3872.9	3204.5	2482.7	936.6	317.2	117.5	82.2
80°	906.5	926.1	1222.4	1409.1	1676.0	1399.9	992.7	575.0	227.1	73.7	73.1
82.5°	518.9	531.3	886.3	783.2	660.5	563.9	494.1	545.0	136.4	49.6	75.7
85°	190.6	193.2	498.6	595.9	392.9	233.7	245.4	451.6	36.5	31.3	59.4
87.5°	88.8	86.8	256.5	364.8	229.7	148.2	191.2	99.2	14.4	20.2	16.3
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1638.2	1638.2	1638.2	1638.2	1638.2	1638.2	1638.2	1638.2	1638.2	1638.2	1638.2
2.5°	1618.6	1594.4	1550.7	1505.7	1460.0	1424.7	1390.2	1362.7	1353.6	1336.6	1337.9
5°	1569.0	1524.6	1433.2	1340.6	1244.0	1164.3	1089.3	1028.6	999.2	969.2	969.2
7.5°	1525.9	1461.3	1318.4	1167.6	1011.6	880.4	762.3	673.5	624.6	585.4	584.8
10°	1509.6	1422.1	1222.4	1006.4	789.1	610.2	469.9	379.8	333.5	303.5	302.2
12.5°	1516.8	1408.4	1148.7	857.6	584.8	392.2	272.2	214.1	194.5	185.4	185.4
15°	1537.7	1404.5	1074.9	712.0	413.1	245.4	180.8	165.1	163.8	163.8	163.8
17.5°	1563.1	1405.8	999.2	570.4	281.3	175.6	156.0	154.0	155.3	155.3	155.3
20°	1589.2	1406.5	917.6	439.2	198.4	152.7	146.8	146.2	147.5	147.5	148.2
22.5°	1621.2	1409.7	836.1	328.3	163.8	144.2	139.7	139.7	140.3	140.3	139.7
25°	1657.7	1416.3	751.2	243.4	149.5	138.4	134.4	133.8	134.4	133.8	133.1
27.5°	1703.4	1425.4	656.6	190.6	142.9	132.5	129.2	129.2	128.6	127.9	127.3
30°	1760.9	1435.8	550.2	161.9	136.4	127.3	124.0	123.4	122.7	121.4	121.4
32.5°	1848.3	1458.7	445.1	146.8	129.2	120.1	117.5	117.5	116.2	114.9	114.2
35°	1982.8	1503.7	351.1	137.7	121.4	112.3	109.0	109.0	107.7	107.0	106.4
37.5°	2168.8	1572.2	272.8	129.2	113.6	103.8	100.5	99.9	98.6	97.2	96.6
40°	2416.1	1657.1	214.7	121.4	105.7	95.3	92.7	91.4	88.8	86.8	86.8
42.5°	2726.8	1753.7	174.3	112.9	96.6	87.5	85.5	83.5	79.0	77.0	76.4
45°	3051.8	1840.5	147.5	103.1	87.5	79.6	78.3	75.1	69.2	67.2	67.2
47.5°	3286.1	1860.7	129.9	94.0	79.0	71.1	70.5	64.6	59.4	58.1	57.4
50°	3432.3	1820.9	115.5	84.8	71.1	63.3	61.3	54.2	50.9	49.6	48.9
52.5°	3530.9	1749.8	103.8	77.0	64.0	56.1	51.6	46.3	43.7	42.4	42.4
55°	3609.8	1649.3	92.0	69.8	58.1	50.3	43.7	39.8	37.2	35.9	35.9
57.5°	3632.0	1512.9	80.3	64.0	52.2	44.4	37.2	34.6	31.3	30.7	30.7
60°	3470.8	1266.8	71.1	56.8	47.0	38.5	32.6	29.4	26.1	25.5	24.8
62.5°	3045.9	980.3	62.7	50.3	41.1	33.3	28.1	24.1	21.5	21.5	21.5
65°	2323.4	657.2	54.8	43.7	35.9	28.1	24.1	19.6	18.3	18.3	18.9
67.5°	1390.8	357.7	47.0	37.2	30.7	23.5	20.2	17.0	16.3	17.0	17.0
69°	815.2	210.2	42.4	33.3	26.8	20.9	17.6	15.0	16.3	17.0	17.0
70°	503.2	141.6	39.2	30.0	24.1	18.9	16.3	14.4	15.7	16.3	16.3
72.5°	140.3	73.1	31.3	23.5	19.6	15.7	13.1	13.1	15.0	15.7	15.7
75°	91.4	54.2	24.1	17.6	15.0	12.4	11.1	12.4	14.4	15.0	15.0
77.5°	75.7	44.4	19.6	14.4	12.4	11.7	10.4	11.1	13.1	13.7	13.7
80°	69.2	31.3	15.7	13.1	11.1	10.4	9.8	9.1	11.7	12.4	12.4
82.5°	65.9	24.8	13.7	11.7	10.4	9.1	8.5	9.1	10.4	11.1	11.7
85°	41.1	16.3	12.4	11.1	9.1	8.5	8.5	8.5	9.8	10.4	10.4
87.5°	15.0	13.1	11.1	9.1	7.8	7.8	7.8	7.8	8.5	9.8	9.8
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)