

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: P300972

Luminaire Tested: **GAA-AF-03-LED-U-SL4-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300972  
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-SL4-7027-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Square Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

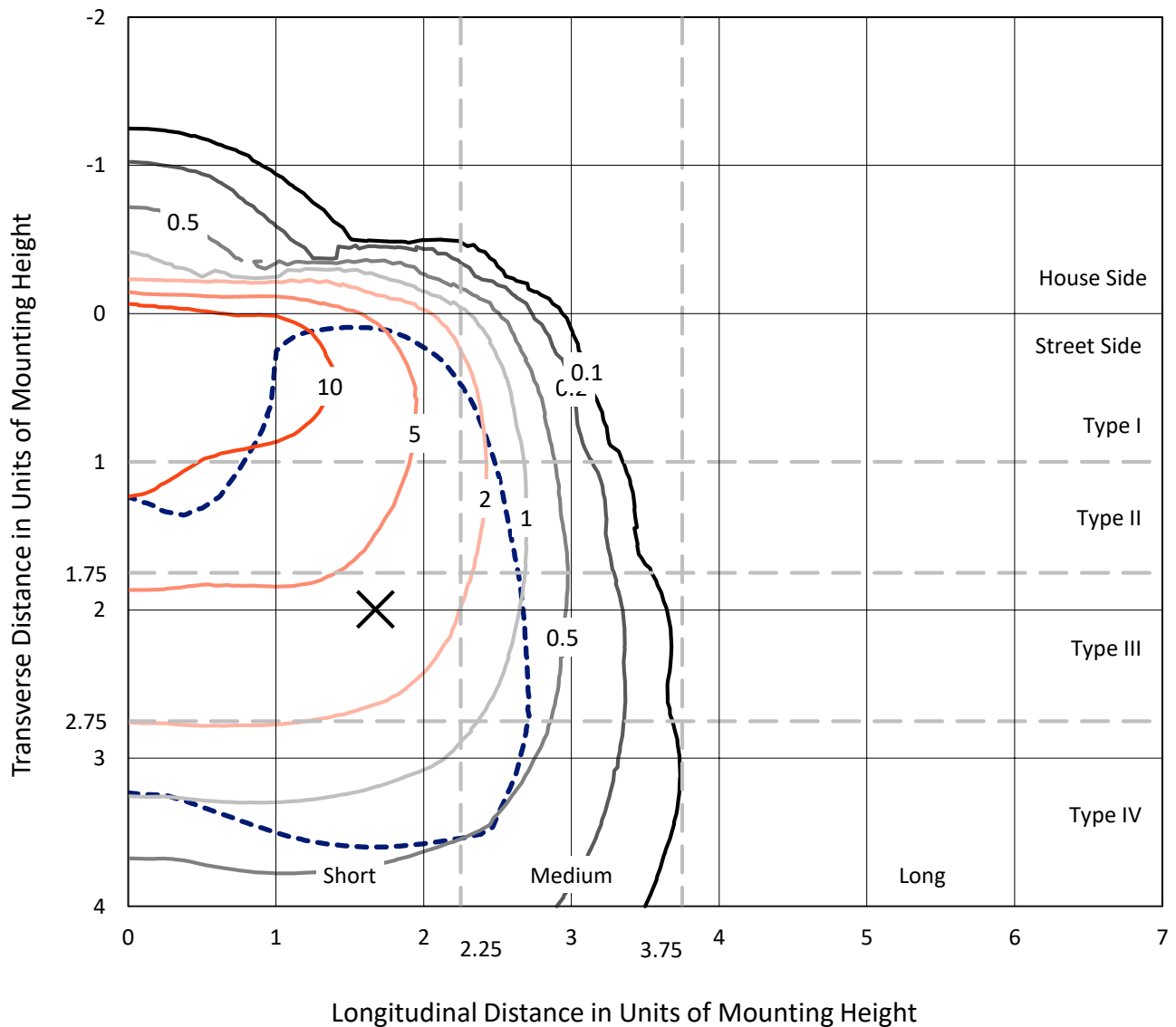
Lumens per Lamp: N/A  
Luminaire Lumens: 9848.7 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (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

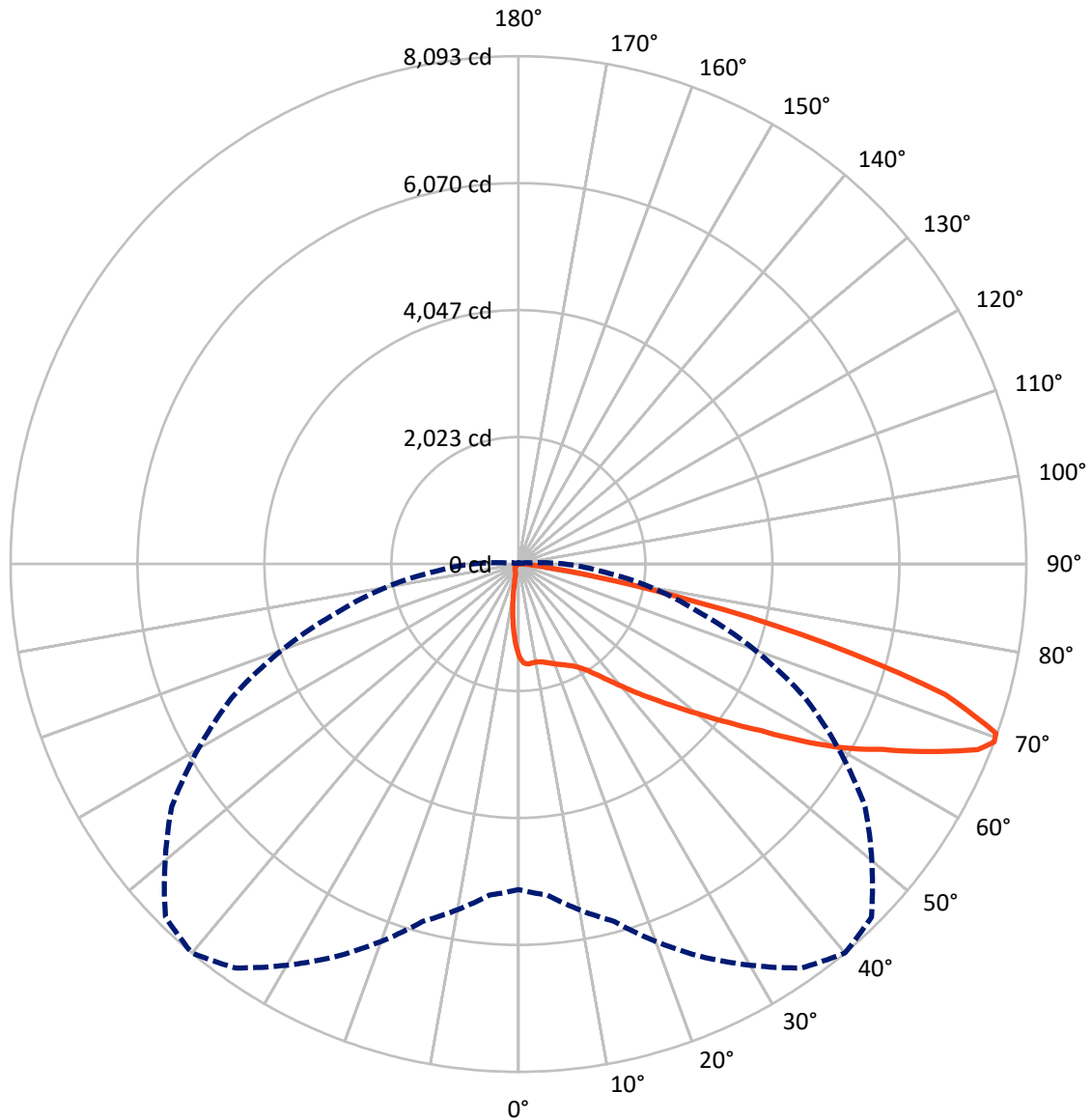
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.1 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	576.2	0.0	576.2
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	9272.5	0.0	9272.5
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	9848.7	0.0	9848.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.3	1.2
10°-20°	293.4	3.0
20°-30°	494.2	5.0
30°-40°	809.0	8.2
40°-50°	1400.7	14.2
50°-60°	2206.3	22.4
60°-70°	2881.3	29.3
70°-80°	1484.0	15.1
80°-90°	160.5	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°	9848.7	100.0
0°-180°	9848.7	100.0

**Coefficient of Utilization**



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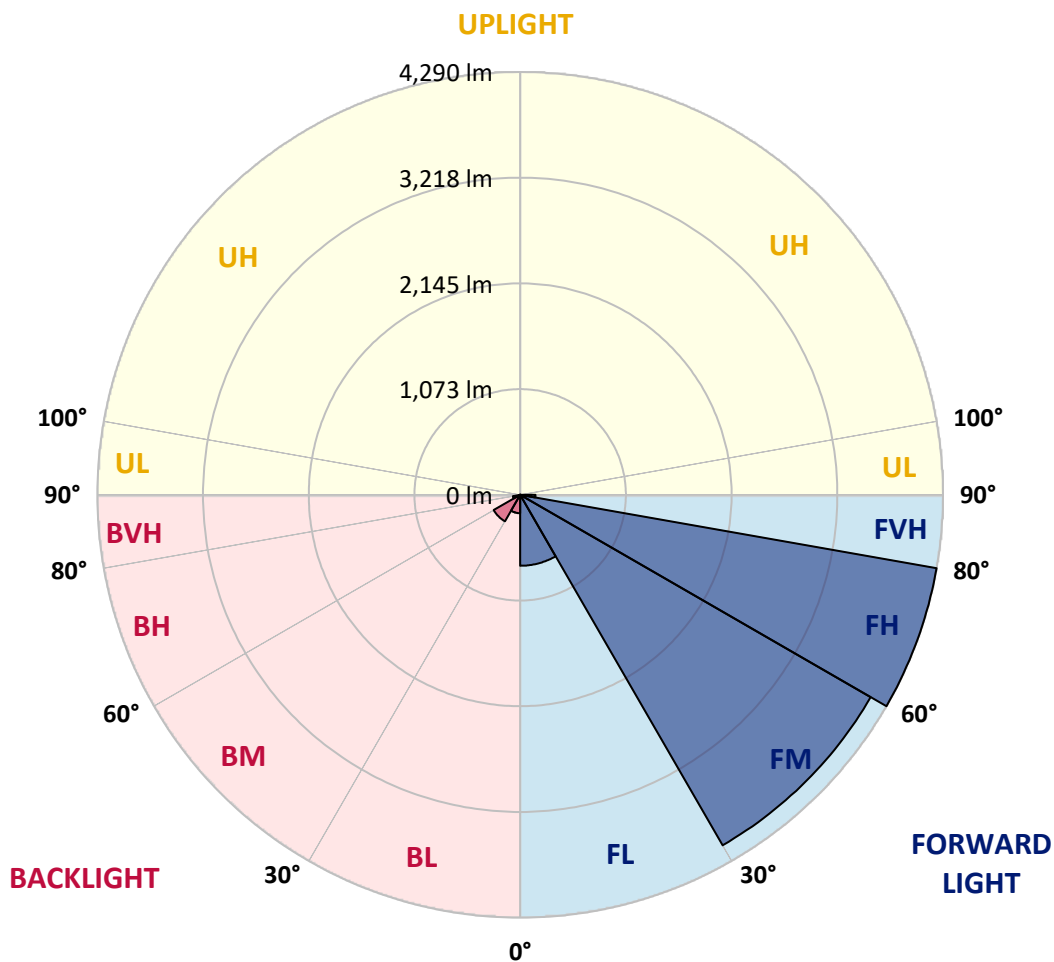
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	720.2	7.3			
FM	(30°-60°)	4106.3	41.7			
FH	(60°-80°)	4290.5	43.6			G2/5000
FVH	(80°-90°)	155.5	1.6			G2/225
BL	(0°-30°)	186.7	1.9	B1/500		
BM	(30°-60°)	309.7	3.1	B1/1000		
BH	(60°-80°)	74.8	0.8	B0/110		G0/110
BVH	(80°-90°)	5.0	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°	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4
2.5°	1615.7	1606.9	1601.6	1594.6	1585.8	1578.1	1575.2	1553.5	1533.0	1504.9	1472.6
5°	1645.6	1642.6	1633.2	1623.9	1613.3	1601.6	1595.1	1569.3	1540.0	1499.0	1442.7
7.5°	1648.5	1645.0	1633.2	1620.3	1605.7	1591.6	1580.5	1554.7	1527.7	1486.1	1417.5
10°	1643.8	1639.7	1630.9	1616.8	1598.7	1585.2	1574.0	1549.4	1526.6	1489.0	1412.8
12.5°	1638.5	1634.4	1630.3	1623.3	1607.5	1598.1	1588.7	1565.2	1544.7	1513.1	1429.8
15°	1643.8	1641.5	1646.1	1643.2	1634.4	1626.2	1616.8	1595.7	1577.0	1550.6	1460.9
17.5°	1666.1	1666.1	1680.7	1682.5	1674.3	1662.6	1649.1	1628.0	1612.1	1589.9	1497.8
20°	1718.2	1716.5	1735.3	1738.8	1718.8	1700.7	1680.7	1654.9	1642.6	1628.6	1534.2
22.5°	1807.9	1799.7	1810.9	1807.4	1768.1	1739.9	1715.3	1683.7	1677.2	1670.8	1574.6
25°	1924.6	1919.9	1927.5	1892.9	1823.8	1785.7	1756.4	1720.6	1720.6	1727.0	1620.3
27.5°	2094.0	2076.4	2050.6	1989.7	1885.9	1837.3	1805.6	1767.5	1777.5	1801.5	1680.7
30°	2267.6	2248.2	2189.0	2095.2	1961.5	1910.5	1873.6	1833.7	1857.2	1901.2	1761.6
32.5°	2438.7	2417.0	2333.2	2214.8	2070.0	2019.0	1983.2	1939.3	1978.5	2052.4	1880.1
35°	2604.6	2585.3	2488.6	2349.0	2214.2	2172.0	2139.2	2101.1	2151.5	2254.7	2047.1
37.5°	2791.1	2770.0	2652.1	2500.9	2389.5	2359.0	2335.0	2296.9	2384.8	2536.0	2279.9
40°	3020.3	2984.5	2825.6	2675.0	2592.3	2577.7	2561.3	2556.0	2692.6	2901.9	2590.0
42.5°	3282.9	3224.3	3007.4	2858.5	2815.1	2825.6	2821.5	2845.0	3077.7	3356.8	2967.5
45°	3545.5	3469.9	3209.6	3054.3	3060.1	3097.1	3119.9	3213.7	3560.2	3878.5	3373.8
47.5°	3768.3	3693.9	3403.7	3265.9	3336.3	3408.9	3471.1	3648.7	4056.1	4392.1	3689.8
50°	3958.8	3888.5	3609.4	3498.6	3656.9	3774.2	3875.0	4138.2	4589.6	4783.1	3911.3
52.5°	4114.8	4067.9	3822.8	3765.4	4023.3	4195.1	4342.8	4658.2	5062.1	5100.8	4083.7
55°	4266.6	4233.2	4052.0	4082.5	4453.6	4687.5	4874.5	5209.9	5469.0	5365.8	4249.0
57.5°	4441.3	4410.8	4313.5	4484.7	5019.3	5313.6	5517.6	5698.8	5827.2	5636.6	4405.0
60°	4619.5	4601.9	4604.3	4931.4	5668.9	5951.4	6064.0	6110.9	6178.9	5891.6	4413.8
62.5°	4789.5	4822.9	4936.7	5428.5	6290.9	6507.8	6564.6	6611.0	6531.2	5932.1	4077.8
65°	5077.4	5131.9	5403.3	6093.9	6975.0	7207.2	7265.8	7106.9	6586.9	5409.2	3316.9
67.5°	5218.1	5317.7	5802.0	6714.1	7638.6	7896.6	7874.9	7139.1	5911.0	4124.7	2128.6
69°	5188.8	5294.9	5894.0	6904.1	7859.0	8093.0	7955.2	6744.6	5035.7	2988.0	1306.7
70°	5072.7	5180.0	5846.5	6897.0	7887.2	8072.4	7806.3	6257.5	4257.8	2184.9	817.2
72.5°	4236.1	4328.7	5190.5	6234.0	7265.8	7115.1	6530.6	4335.2	2074.7	595.0	184.1
75°	2607.6	2659.2	3724.3	4696.3	5487.7	5100.8	4351.0	2156.8	618.5	168.2	102.0
77.5°	1377.6	1401.1	2038.9	2768.2	3478.7	2878.4	2230.0	841.2	284.9	105.5	73.9
80°	814.3	831.9	1098.0	1265.7	1505.4	1257.5	891.7	516.5	204.0	66.2	65.7
82.5°	466.1	477.2	796.1	703.5	593.3	506.5	443.8	489.5	122.5	44.6	68.0
85°	171.2	173.5	447.9	535.2	352.9	209.9	220.4	405.7	32.8	28.1	53.3
87.5°	79.7	78.0	230.4	327.7	206.4	133.1	171.8	89.1	12.9	18.2	14.7
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°	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4	1471.4
2.5°	1453.9	1432.2	1392.9	1352.4	1311.4	1279.7	1248.7	1224.1	1215.8	1200.6	1201.8
5°	1409.3	1369.4	1287.4	1204.1	1117.4	1045.8	978.4	923.9	897.5	870.6	870.6
7.5°	1370.6	1312.6	1184.2	1048.8	908.7	790.8	684.7	605.0	561.0	525.9	525.3
10°	1356.0	1277.4	1098.0	904.0	708.8	548.1	422.1	341.2	299.6	272.6	271.4
12.5°	1362.4	1265.1	1031.8	770.3	525.3	352.3	244.5	192.3	174.7	166.5	166.5
15°	1381.2	1261.6	965.5	639.6	371.1	220.4	162.4	148.3	147.1	147.1	147.1
17.5°	1404.0	1262.7	897.5	512.4	252.7	157.7	140.1	138.4	139.5	139.5	139.5
20°	1427.5	1263.3	824.2	394.5	178.2	137.2	131.9	131.3	132.5	132.5	133.1
22.5°	1456.2	1266.3	751.0	294.9	147.1	129.6	125.5	125.5	126.0	126.0	125.5
25°	1489.0	1272.1	674.8	218.7	134.2	124.3	120.8	120.2	120.8	120.2	119.6
27.5°	1530.1	1280.3	589.8	171.2	128.4	119.0	116.1	116.1	115.5	114.9	114.3
30°	1581.7	1289.7	494.2	145.4	122.5	114.3	111.4	110.8	110.2	109.0	109.0
32.5°	1660.2	1310.2	399.8	131.9	116.1	107.9	105.5	105.5	104.3	103.2	102.6
35°	1781.0	1350.7	315.4	123.7	109.0	100.8	97.9	97.9	96.7	96.1	95.6
37.5°	1948.1	1412.2	245.0	116.1	102.0	93.2	90.3	89.7	88.5	87.3	86.8
40°	2170.2	1488.4	192.9	109.0	95.0	85.6	83.2	82.1	79.7	78.0	78.0
42.5°	2449.3	1575.2	156.5	101.4	86.8	78.6	76.8	75.0	70.9	69.2	68.6
45°	2741.2	1653.2	132.5	92.6	78.6	71.5	70.3	67.4	62.1	60.4	60.4
47.5°	2951.7	1671.4	116.7	84.4	70.9	63.9	63.3	58.0	53.3	52.2	51.6
50°	3083.0	1635.6	103.8	76.2	63.9	56.9	55.1	48.7	45.7	44.6	44.0
52.5°	3171.5	1571.7	93.2	69.2	57.5	50.4	46.3	41.6	39.3	38.1	38.1
55°	3242.5	1481.4	82.7	62.7	52.2	45.1	39.3	35.8	33.4	32.2	32.2
57.5°	3262.4	1358.9	72.1	57.5	46.9	39.9	33.4	31.1	28.1	27.6	27.6
60°	3117.6	1137.9	63.9	51.0	42.2	34.6	29.3	26.4	23.4	22.9	22.3
62.5°	2736.0	880.5	56.3	45.1	36.9	29.9	25.2	21.7	19.3	19.3	19.3
65°	2087.0	590.3	49.2	39.3	32.2	25.2	21.7	17.6	16.4	16.4	17.0
67.5°	1249.3	321.3	42.2	33.4	27.6	21.1	18.2	15.2	14.7	15.2	15.2
69°	732.2	188.8	38.1	29.9	24.0	18.8	15.8	13.5	14.7	15.2	15.2
70°	452.0	127.2	35.2	27.0	21.7	17.0	14.7	12.9	14.1	14.7	14.7
72.5°	126.0	65.7	28.1	21.1	17.6	14.1	11.7	11.7	13.5	14.1	14.1
75°	82.1	48.7	21.7	15.8	13.5	11.1	10.0	11.1	12.9	13.5	13.5
77.5°	68.0	39.9	17.6	12.9	11.1	10.6	9.4	10.0	11.7	12.3	12.3
80°	62.1	28.1	14.1	11.7	10.0	9.4	8.8	8.2	10.6	11.1	11.1
82.5°	59.2	22.3	12.3	10.6	9.4	8.2	7.6	8.2	9.4	10.0	10.6
85°	36.9	14.7	11.1	10.0	8.2	7.6	7.6	7.6	8.8	9.4	9.4
87.5°	13.5	11.7	10.0	8.2	7.0	7.0	7.0	7.0	7.6	8.8	8.8
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)