

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: P301873

Luminaire Tested: **GAA-AF-03-LED-U-SL4-7030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P301873  
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-SL4-7030-800-HSS  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
w/Spill Control WITH HOUSESIDE SHEILD OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10471.9 lumens  
Efficiency: N/A  
Efficacy: 84.5 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): 124  
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

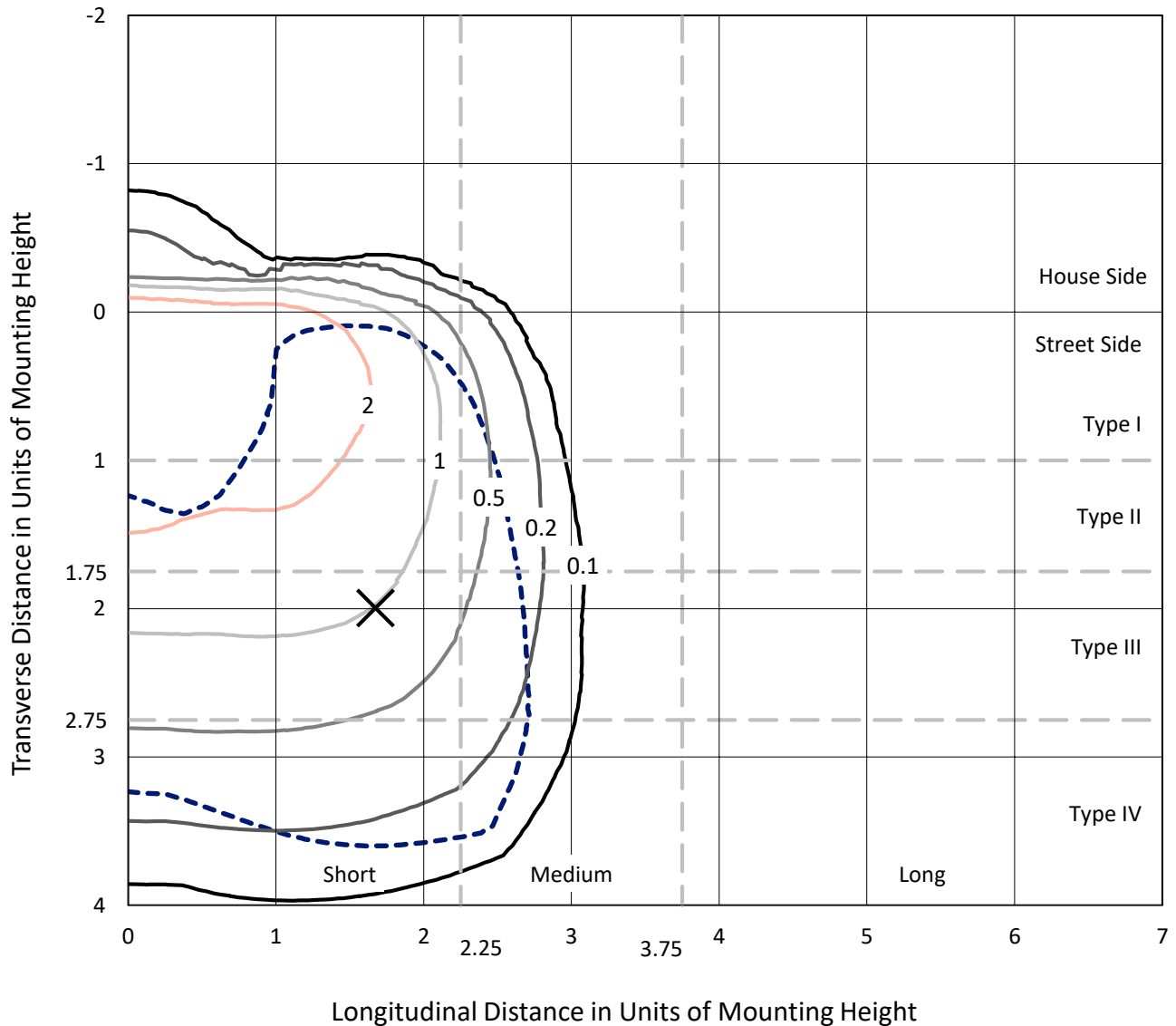


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

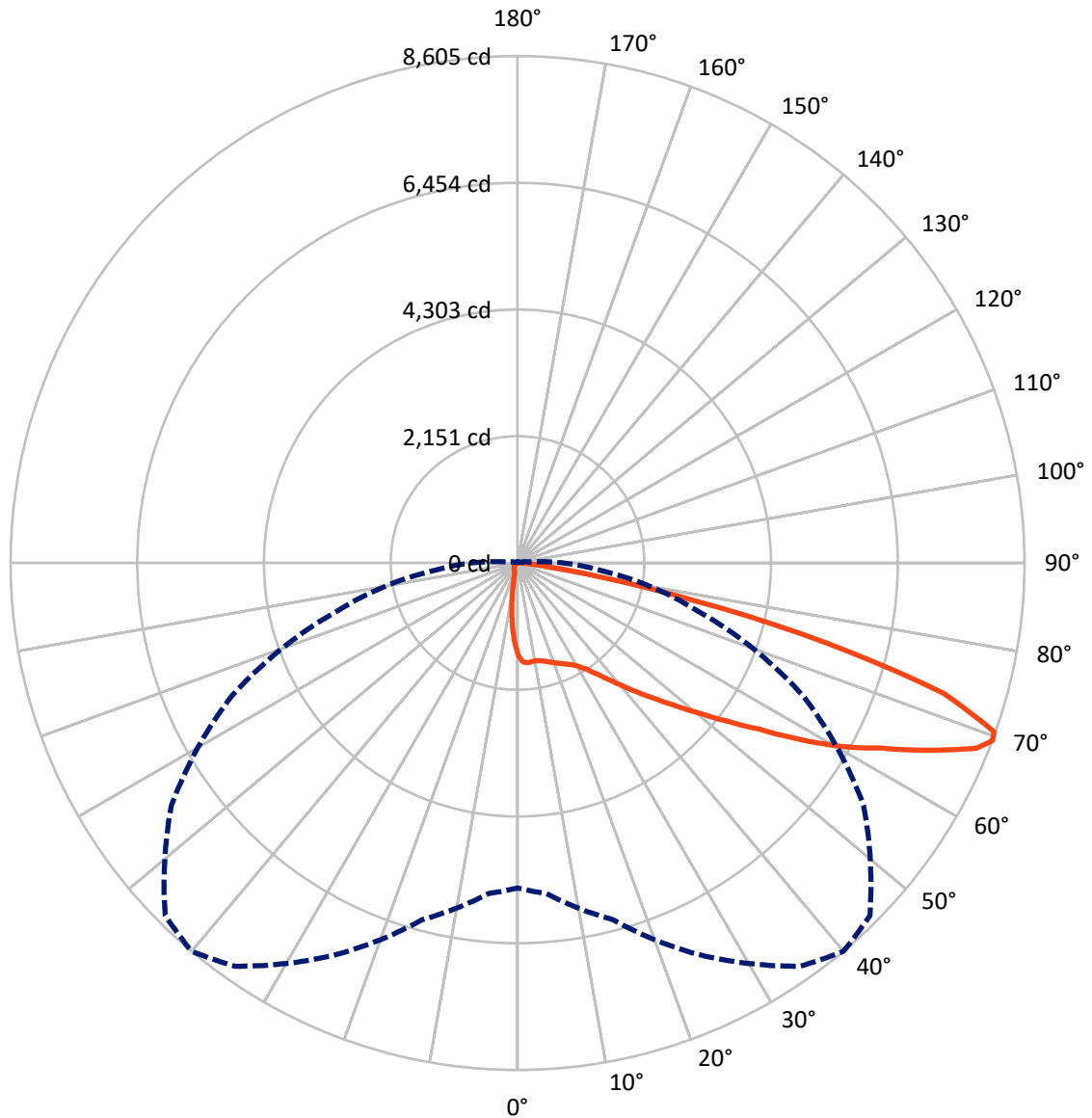


Based on 20 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - Semi-Cutoff

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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	612.7	0.0	612.7
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	9859.2	0.0	9859.2
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	10471.9	0.0	10471.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.9	1.2
10°-20°	312.0	3.0
20°-30°	525.4	5.0
30°-40°	860.2	8.2
40°-50°	1489.4	14.2
50°-60°	2345.9	22.4
60°-70°	3063.6	29.3
70°-80°	1577.9	15.1
80°-90°	170.7	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°	10471.9	100.0
0°-180°	10471.9	100.0

**Coefficient of Utilization**



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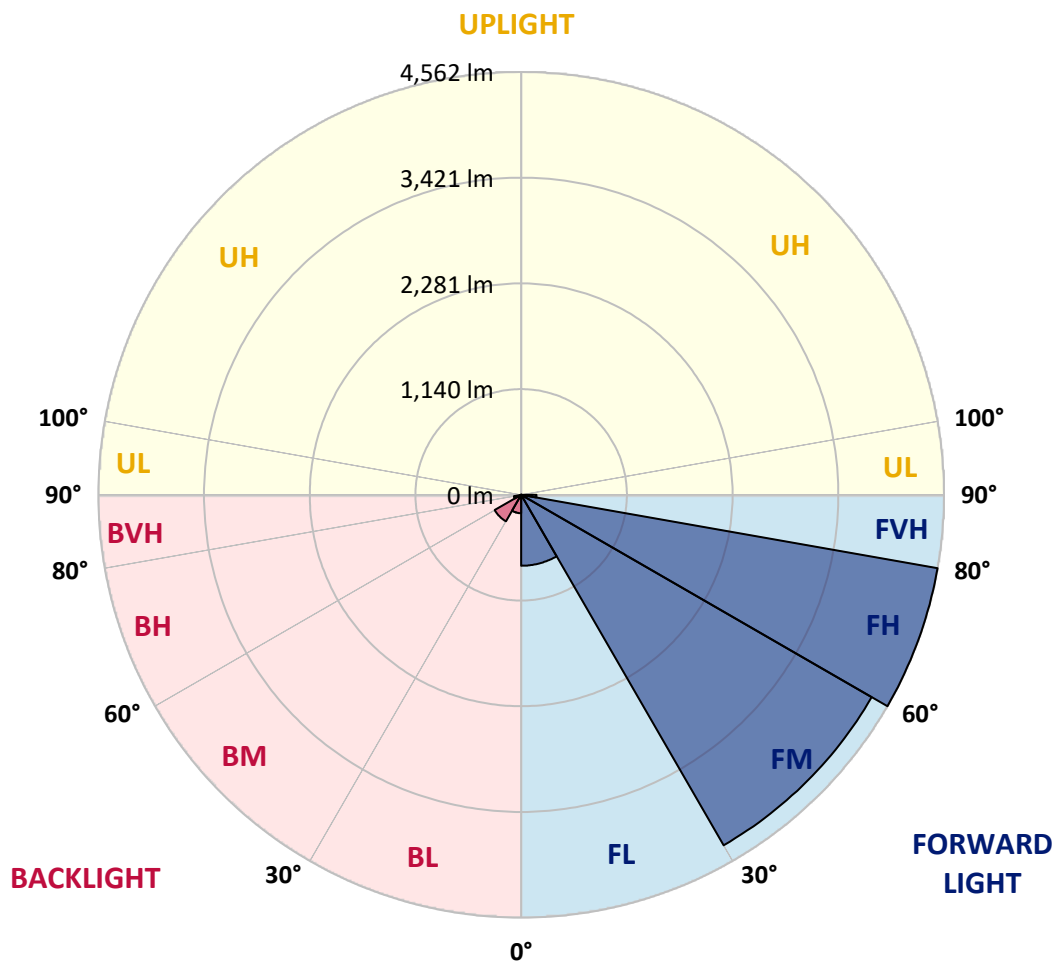
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	765.8	7.3			
FM	(30°-60°)	4366.1	41.7			
FH	(60°-80°)	4562.0	43.6			G2/5000
FVH	(80°-90°)	165.3	1.6			G2/225
BL	(0°-30°)	198.5	1.9	B1/500		
BM	(30°-60°)	329.3	3.1	B1/1000		
BH	(60°-80°)	79.6	0.8	B0/110		G0/110
BVH	(80°-90°)	5.4	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°	1564.6	1564.6	1564.6	1564.6	1564.6	1564.6	1564.6	1564.6	1564.6	1564.6	1564.6
2.5°	1717.9	1708.5	1702.9	1695.5	1686.1	1678.0	1674.9	1651.8	1630.0	1600.1	1565.8
5°	1749.7	1746.6	1736.6	1726.6	1715.4	1702.9	1696.1	1668.6	1637.5	1593.8	1534.0
7.5°	1752.8	1749.1	1736.6	1722.9	1707.3	1692.3	1680.5	1653.1	1624.4	1580.1	1507.2
10°	1747.8	1743.4	1734.1	1719.1	1699.8	1685.5	1673.6	1647.5	1623.1	1583.3	1502.2
12.5°	1742.2	1737.8	1733.5	1726.0	1709.2	1699.2	1689.2	1664.3	1642.5	1608.8	1520.3
15°	1747.8	1745.3	1750.3	1747.2	1737.8	1729.1	1719.1	1696.7	1676.8	1648.7	1553.3
17.5°	1771.5	1771.5	1787.1	1788.9	1780.2	1767.8	1753.4	1731.0	1714.2	1690.5	1592.6
20°	1827.0	1825.1	1845.0	1848.8	1827.6	1808.3	1787.1	1759.7	1746.6	1731.6	1631.2
22.5°	1922.3	1913.6	1925.5	1921.7	1880.0	1850.0	1823.9	1790.2	1783.3	1776.5	1674.3
25°	2046.4	2041.4	2049.5	2012.7	1939.2	1898.7	1867.5	1829.5	1829.5	1836.3	1722.9
27.5°	2226.5	2207.8	2180.4	2115.6	2005.2	1953.5	1919.8	1879.3	1889.9	1915.5	1787.1
30°	2411.0	2390.5	2327.5	2227.8	2085.7	2031.4	1992.2	1949.8	1974.7	2021.5	1873.1
32.5°	2593.0	2570.0	2480.8	2354.9	2201.0	2146.7	2108.7	2062.0	2103.7	2182.3	1999.0
35°	2769.4	2748.9	2646.0	2497.7	2354.3	2309.4	2274.5	2234.0	2287.6	2397.3	2176.7
37.5°	2967.7	2945.2	2819.9	2659.1	2540.7	2508.3	2482.7	2442.2	2535.7	2696.5	2424.1
40°	3211.4	3173.4	3004.4	2844.2	2756.4	2740.8	2723.3	2717.7	2862.9	3085.5	2753.9
42.5°	3490.6	3428.3	3197.7	3039.3	2993.2	3004.4	3000.1	3025.0	3272.5	3569.2	3155.3
45°	3769.9	3689.5	3412.7	3247.5	3253.8	3293.0	3317.3	3417.1	3785.5	4123.9	3587.2
47.5°	4006.7	3927.6	3619.0	3472.6	3547.4	3624.6	3690.7	3879.6	4312.8	4670.0	3923.2
50°	4209.3	4134.5	3837.8	3720.0	3888.3	4013.0	4120.2	4400.1	4880.0	5085.7	4158.8
52.5°	4375.1	4325.3	4064.7	4003.6	4277.9	4460.5	4617.6	4953.0	5382.4	5423.6	4342.1
55°	4536.6	4501.0	4308.4	4340.9	4735.4	4984.1	5183.0	5539.5	5815.0	5705.3	4517.9
57.5°	4722.3	4689.9	4586.4	4768.5	5336.9	5649.8	5866.8	6059.4	6195.9	5993.3	4683.7
60°	4911.8	4893.1	4895.6	5243.4	6027.6	6328.0	6447.7	6497.6	6569.9	6264.4	4693.0
62.5°	5092.6	5128.1	5249.0	5772.0	6688.9	6919.6	6980.0	7029.3	6944.5	6307.4	4335.9
65°	5398.6	5456.6	5745.2	6479.5	7416.3	7663.2	7725.5	7556.6	7003.7	5751.4	3526.8
67.5°	5548.2	5654.2	6169.1	7139.0	8122.0	8396.2	8373.2	7590.9	6285.0	4385.7	2263.3
69°	5517.1	5629.9	6266.9	7340.9	8356.3	8605.0	8458.6	7171.4	5354.4	3177.1	1389.4
70°	5393.7	5507.7	6216.4	7333.4	8386.2	8583.2	8300.2	6653.4	4527.2	2323.1	868.9
72.5°	4504.2	4602.6	5518.9	6628.5	7725.5	7565.3	6943.9	4609.5	2206.0	632.7	195.7
75°	2772.6	2827.4	3960.0	4993.5	5835.0	5423.6	4626.3	2293.2	657.6	178.9	108.5
77.5°	1464.8	1489.8	2167.9	2943.4	3698.8	3060.5	2371.1	894.5	302.9	112.2	78.5
80°	865.8	884.5	1167.5	1345.8	1600.7	1337.0	948.1	549.2	216.9	70.4	69.8
82.5°	495.5	507.4	846.5	748.0	630.8	538.6	471.9	520.5	130.3	47.4	72.3
85°	182.0	184.5	476.2	569.1	375.2	223.2	234.4	431.3	34.9	29.9	56.7
87.5°	84.8	82.9	245.0	348.4	219.4	141.5	182.6	94.7	13.7	19.3	15.6
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°	1564.6	1564.6	1564.6	1564.6	1564.6	1564.6	1564.6	1564.6	1564.6	1564.6	1564.6
2.5°	1545.9	1522.8	1481.0	1438.0	1394.4	1360.7	1327.7	1301.5	1292.8	1276.6	1277.8
5°	1498.5	1456.1	1368.8	1280.3	1188.1	1112.0	1040.3	982.4	954.3	925.6	925.6
7.5°	1457.3	1395.6	1259.1	1115.1	966.2	840.9	728.0	643.3	596.5	559.1	558.5
10°	1441.8	1358.2	1167.5	961.2	753.6	582.8	448.8	362.8	318.5	289.8	288.6
12.5°	1448.6	1345.1	1097.1	819.1	558.5	374.6	259.9	204.5	185.8	177.0	177.0
15°	1468.6	1341.4	1026.6	680.1	394.6	234.4	172.7	157.7	156.5	156.5	156.5
17.5°	1492.9	1342.6	954.3	544.8	268.7	167.7	149.0	147.1	148.4	148.4	148.4
20°	1517.8	1343.3	876.4	419.5	189.5	145.9	140.2	139.6	140.9	140.9	141.5
22.5°	1548.3	1346.4	798.5	313.5	156.5	137.8	133.4	133.4	134.0	134.0	133.4
25°	1583.3	1352.6	717.4	232.5	142.7	132.1	128.4	127.8	128.4	127.8	127.2
27.5°	1626.9	1361.3	627.1	182.0	136.5	126.5	123.4	123.4	122.8	122.2	121.5
30°	1681.7	1371.3	525.5	154.6	130.3	121.5	118.4	117.8	117.2	115.9	115.9
32.5°	1765.3	1393.1	425.1	140.2	123.4	114.7	112.2	112.2	111.0	109.7	109.1
35°	1893.7	1436.1	335.4	131.5	115.9	107.2	104.1	104.1	102.8	102.2	101.6
37.5°	2071.3	1501.6	260.6	123.4	108.5	99.1	96.0	95.4	94.1	92.9	92.3
40°	2307.6	1582.6	205.1	115.9	101.0	91.0	88.5	87.3	84.8	82.9	82.9
42.5°	2604.3	1674.9	166.4	107.8	92.3	83.5	81.7	79.8	75.4	73.6	72.9
45°	2914.7	1757.8	140.9	98.5	83.5	76.0	74.8	71.7	66.1	64.2	64.2
47.5°	3138.5	1777.1	124.0	89.8	75.4	67.9	67.3	61.7	56.7	55.5	54.9
50°	3278.1	1739.1	110.3	81.0	67.9	60.5	58.6	51.7	48.6	47.4	46.7
52.5°	3372.2	1671.1	99.1	73.6	61.1	53.6	49.2	44.3	41.8	40.5	40.5
55°	3447.6	1575.1	87.9	66.7	55.5	48.0	41.8	38.0	35.5	34.3	34.3
57.5°	3468.8	1444.9	76.7	61.1	49.9	42.4	35.5	33.0	29.9	29.3	29.3
60°	3314.9	1209.9	67.9	54.2	44.9	36.8	31.2	28.0	24.9	24.3	23.7
62.5°	2909.1	936.2	59.8	48.0	39.3	31.8	26.8	23.1	20.6	20.6	20.6
65°	2219.0	627.7	52.4	41.8	34.3	26.8	23.1	18.7	17.5	17.5	18.1
67.5°	1328.3	341.6	44.9	35.5	29.3	22.4	19.3	16.2	15.6	16.2	16.2
69°	778.5	200.7	40.5	31.8	25.6	19.9	16.8	14.3	15.6	16.2	16.2
70°	480.6	135.3	37.4	28.7	23.1	18.1	15.6	13.7	15.0	15.6	15.6
72.5°	134.0	69.8	29.9	22.4	18.7	15.0	12.5	12.5	14.3	15.0	15.0
75°	87.3	51.7	23.1	16.8	14.3	11.8	10.6	11.8	13.7	14.3	14.3
77.5°	72.3	42.4	18.7	13.7	11.8	11.2	10.0	10.6	12.5	13.1	13.1
80°	66.1	29.9	15.0	12.5	10.6	10.0	9.3	8.7	11.2	11.8	11.8
82.5°	63.0	23.7	13.1	11.2	10.0	8.7	8.1	8.7	10.0	10.6	11.2
85°	39.3	15.6	11.8	10.6	8.7	8.1	8.1	8.1	9.3	10.0	10.0
87.5°	14.3	12.5	10.6	8.7	7.5	7.5	7.5	7.5	8.1	9.3	9.3
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)