

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: P588567

Luminaire Tested: **ARC-CA6-100-730-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588567  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2109-372-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARC-CA6-100-730-U-33-6-5-X-GHSS  
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD  
Light Source: (3) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

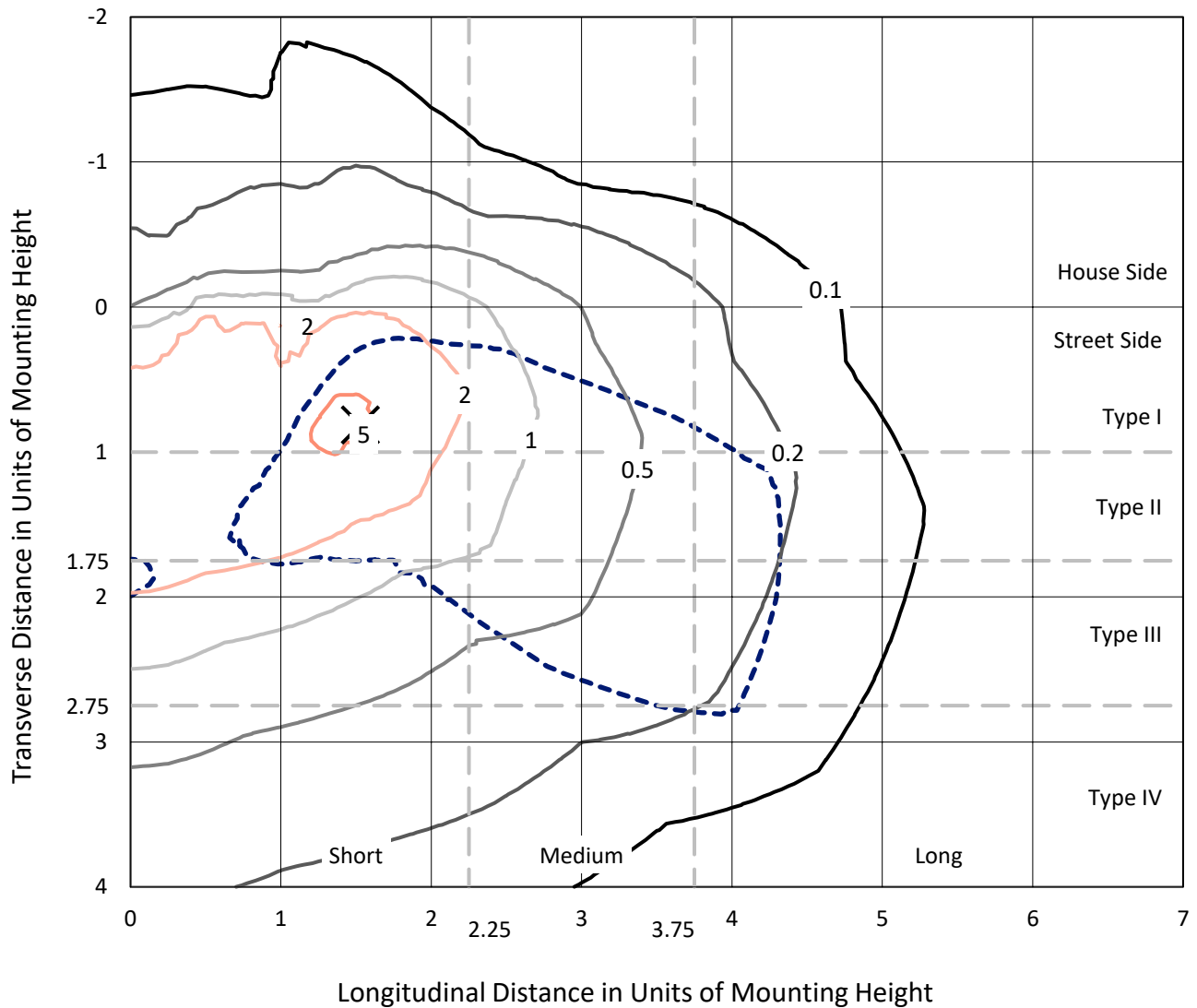
Lumens per Lamp: N/A  
Luminaire Lumens: 4365 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 0.92')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 52.2  
Input Voltage (V): 120  
Input 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: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

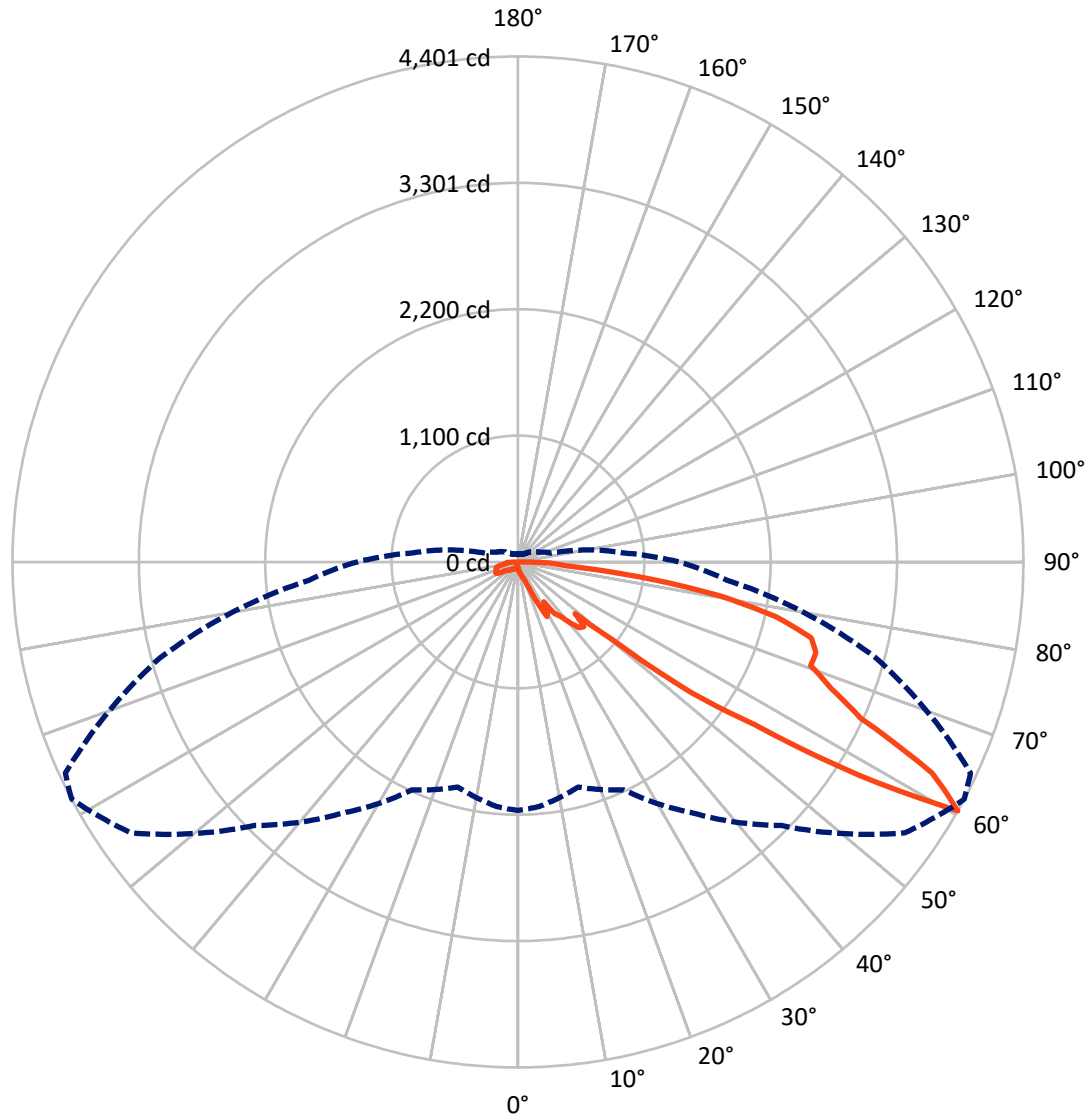
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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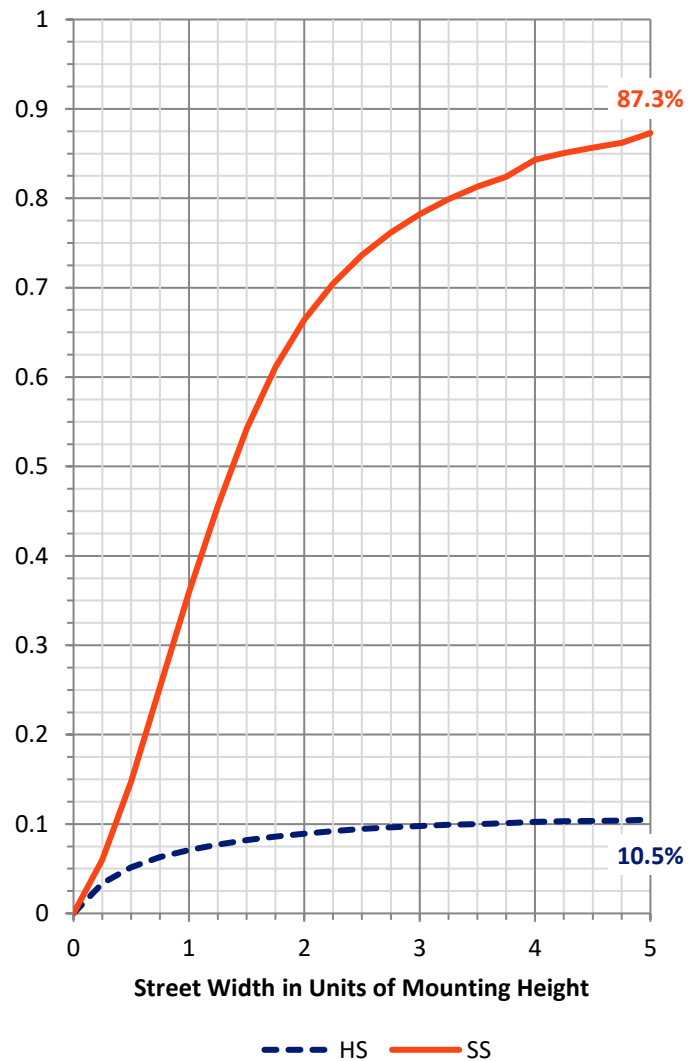
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	476.5	0.0	476.5
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	3888.5	0.0	3888.5
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	4365.0	0.0	4365.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.9	0.1
10°-20°	24.8	0.6
20°-30°	92.6	2.1
30°-40°	182.9	4.2
40°-50°	316.5	7.3
50°-60°	937.2	21.5
60°-70°	1384.6	31.7
70°-80°	1110.6	25.4
80°-90°	309.9	7.1
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°	4365.0	100.0
0°-180°	4365.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P588567

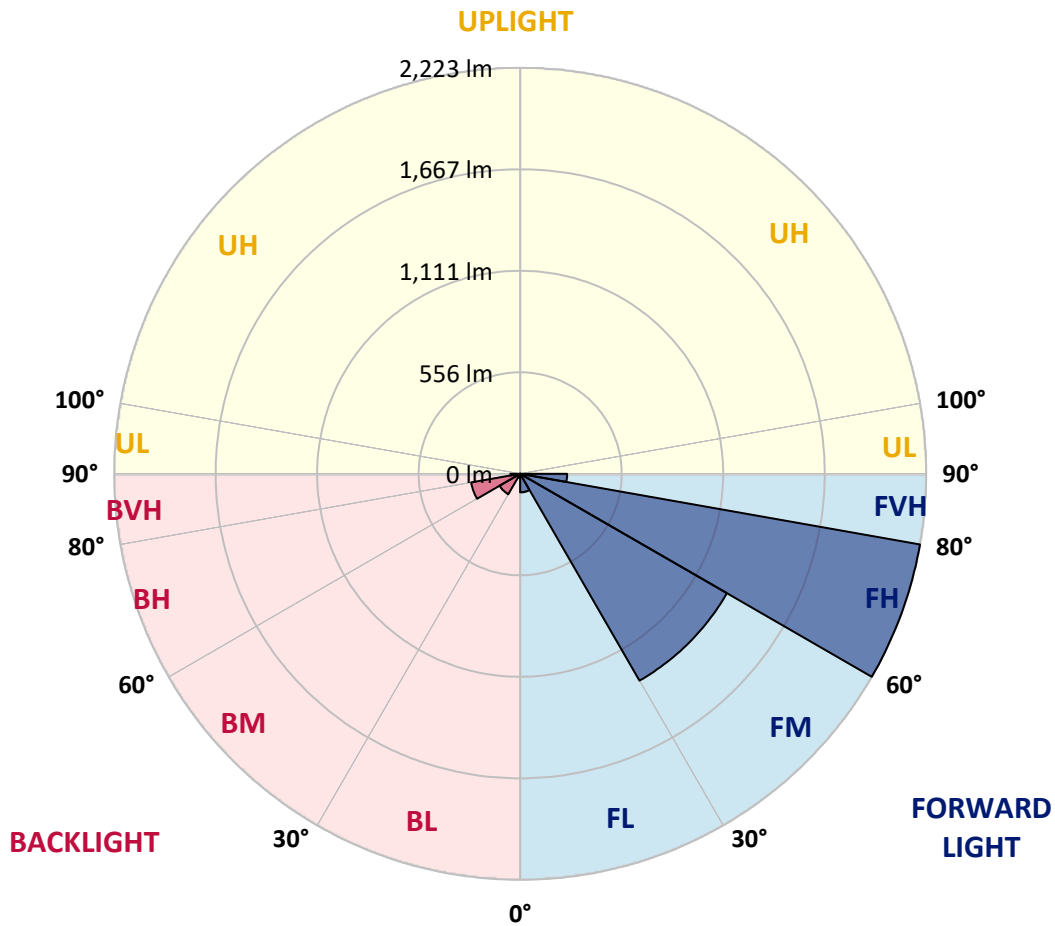
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	102.0	2.3			
FM (30°-60°)	1307.1	29.9			
FH (60°-80°)	2222.6	50.9			G2/5000
FVH (80°-90°)	256.8	5.9			G3/500
BL (0°-30°)	21.3	0.5	B0/110		
BM (30°-60°)	129.5	3.0	B0/220		
BH (60°-80°)	272.6	6.2	B1/500		G1/500
BVH (80°-90°)	53.1	1.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type III Short





REPORT NUMBER: P588567

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
2.5°	73.1	71.9	69.6	67.2	66.0	64.9	63.7	62.5	61.3	57.8	55.4
5°	89.6	88.4	86.1	82.5	79.0	76.7	75.5	74.3	71.9	68.4	62.5
7.5°	101.4	101.4	101.4	99.1	95.5	90.8	87.3	84.9	82.5	77.8	71.9
10°	115.6	114.4	114.4	110.8	107.3	103.8	101.4	99.1	96.7	89.6	80.2
12.5°	126.2	125.0	123.8	120.3	119.1	115.6	114.4	109.7	107.3	99.1	87.3
15°	138.0	136.8	134.4	133.3	129.7	127.4	128.5	127.4	125.0	114.4	96.7
17.5°	150.9	149.8	148.6	148.6	148.6	146.2	145.0	142.7	140.3	123.8	102.6
20°	176.9	173.3	169.8	167.5	172.2	173.3	173.3	171.0	171.0	142.7	117.9
22.5°	225.2	221.7	219.3	201.6	208.7	241.7	252.4	240.6	242.9	187.5	129.7
25°	353.8	342.0	336.1	338.4	358.5	395.0	400.9	386.8	393.9	291.3	207.5
27.5°	413.9	416.3	462.3	509.4	515.3	534.2	566.0	536.6	521.2	372.6	259.4
30°	422.2	426.9	511.8	549.5	535.4	525.9	596.7	510.6	484.7	352.6	285.4
32.5°	389.1	410.4	501.2	516.5	483.5	431.6	483.5	411.6	403.3	306.6	271.2
35°	451.6	462.3	503.5	444.6	434.0	497.6	630.9	553.1	534.2	378.5	260.6
37.5°	547.2	543.6	622.6	668.6	652.1	587.3	656.8	597.9	582.5	476.4	372.6
40°	668.6	660.4	755.9	777.1	761.8	758.2	850.2	692.2	662.7	531.8	442.2
42.5°	702.8	705.2	766.5	818.4	806.6	805.4	943.4	780.7	735.8	537.7	485.8
45°	718.2	731.1	849.1	817.2	829.0	807.8	930.4	804.2	766.5	597.9	571.9
47.5°	623.8	630.9	793.6	794.8	645.0	649.8	759.4	669.8	642.7	468.2	492.9
50°	805.4	804.2	863.2	816.0	747.6	865.6	1087.3	1053.1	1033.0	702.8	547.2
52.5°	1165.1	1152.1	1241.7	1316.0	1301.9	1574.3	1904.5	1890.3	1818.4	1378.5	864.4
55°	1533.0	1527.1	1626.2	1888.0	2014.1	2270.0	2590.8	2501.2	2474.0	2030.6	1358.5
57.5°	1836.1	1837.3	1869.1	2094.3	2351.4	2846.7	3402.1	3507.1	3451.6	2621.4	1650.9
60°	2162.7	2136.8	2028.3	2188.7	2669.8	3245.3	4112.0	4400.9	4347.9	3225.2	1827.8
62.5°	2185.1	2159.2	1974.0	2136.8	2504.7	3034.2	3812.5	4047.1	4108.5	3389.1	1880.9
65°	2086.1	2054.2	1825.5	1946.9	2096.7	2417.4	3371.4	3278.3	3366.7	3338.4	1879.7
67.5°	1976.4	1950.5	1735.8	1837.3	1952.8	2167.4	3173.3	2941.0	3031.8	3140.3	1968.1
70°	1865.6	1829.0	1655.7	1765.3	1908.0	2053.1	2922.2	2704.0	2680.4	2660.4	1879.7
72.5°	1846.7	1818.4	1634.4	1711.1	1872.6	1979.9	2880.9	2713.4	2689.8	2566.0	1719.3
75°	1702.8	1700.5	1523.6	1595.5	1790.1	1857.3	2766.5	2638.0	2588.4	2429.2	1513.0
77.5°	1375.0	1357.3	1228.8	1304.2	1479.9	1573.1	2380.9	2297.2	2268.9	2120.3	1251.2
80°	924.5	909.2	853.8	897.4	1061.3	1142.7	1786.5	1779.5	1758.2	1660.4	924.5
82.5°	525.9	551.9	500.0	520.0	576.6	676.9	1110.8	1062.5	1047.2	977.6	524.8
85°	296.0	290.1	270.0	267.7	312.5	307.8	479.9	411.6	428.1	370.3	250.0
87.5°	213.4	218.2	196.9	196.9	218.2	215.8	301.9	284.2	281.8	264.1	179.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P588567

CATALOG NUMBER: ARC-CA6-100-730-U-33-6-5-X-GHSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
2.5°	54.2	53.1	49.5	46.0	40.1	34.2	30.7	33.0	34.2	35.4	35.4
5°	59.0	56.6	49.5	42.5	35.4	29.5	24.8	22.4	22.4	23.6	23.6
7.5°	69.6	66.0	56.6	48.3	38.9	33.0	27.1	23.6	21.2	21.2	21.2
10°	75.5	71.9	61.3	51.9	42.5	35.4	29.5	24.8	22.4	21.2	21.2
12.5°	81.4	76.7	66.0	55.4	44.8	36.6	30.7	25.9	24.8	24.8	24.8
15°	88.4	81.4	68.4	56.6	46.0	37.7	30.7	27.1	25.9	25.9	25.9
17.5°	95.5	88.4	73.1	57.8	47.2	37.7	31.8	27.1	25.9	27.1	27.1
20°	107.3	94.3	73.1	59.0	47.2	37.7	31.8	27.1	27.1	27.1	27.1
22.5°	113.2	102.6	77.8	60.1	48.3	38.9	31.8	27.1	27.1	27.1	27.1
25°	174.5	129.7	81.4	62.5	49.5	40.1	31.8	28.3	27.1	28.3	28.3
27.5°	219.3	182.8	93.2	66.0	50.7	41.3	33.0	28.3	28.3	29.5	29.5
30°	244.1	208.7	101.4	71.9	54.2	42.5	34.2	29.5	29.5	29.5	29.5
32.5°	232.3	188.7	102.6	79.0	60.1	44.8	35.4	30.7	30.7	30.7	30.7
35°	201.6	155.7	100.2	80.2	63.7	49.5	37.7	31.8	31.8	30.7	30.7
37.5°	281.8	195.8	103.8	80.2	66.0	53.1	41.3	34.2	33.0	31.8	31.8
40°	333.7	218.2	114.4	86.1	66.0	54.2	43.6	37.7	35.4	34.2	33.0
42.5°	370.3	239.4	122.6	94.3	73.1	56.6	44.8	41.3	37.7	35.4	35.4
45°	423.3	253.5	133.3	103.8	80.2	62.5	48.3	42.5	41.3	38.9	37.7
47.5°	386.8	258.3	143.9	114.4	88.4	68.4	53.1	46.0	44.8	42.5	41.3
50°	397.4	251.2	147.4	121.5	96.7	73.1	57.8	50.7	48.3	46.0	46.0
52.5°	542.4	332.5	161.6	125.0	100.2	80.2	62.5	55.4	53.1	50.7	50.7
55°	885.6	509.4	199.3	138.0	103.8	82.5	67.2	61.3	57.8	55.4	54.2
57.5°	1156.8	719.3	252.4	168.6	123.8	87.3	69.6	67.2	64.9	60.1	59.0
60°	1403.3	911.6	297.2	202.8	155.7	113.2	80.2	74.3	73.1	66.0	63.7
62.5°	1603.8	1070.7	333.7	221.7	178.1	146.2	109.7	92.0	82.5	74.3	71.9
65°	1676.9	1123.8	347.9	225.2	184.0	162.7	138.0	125.0	97.9	84.9	82.5
67.5°	1705.2	1112.0	355.0	218.2	179.2	162.7	145.0	146.2	119.1	94.3	90.8
70°	1649.8	1066.0	351.4	211.1	172.2	158.0	141.5	136.8	123.8	101.4	96.7
72.5°	1524.8	1023.6	350.2	209.9	169.8	152.1	130.9	116.7	106.1	100.2	97.9
75°	1399.8	995.3	345.5	208.7	166.3	143.9	119.1	101.4	87.3	88.4	90.8
77.5°	1188.7	878.5	319.6	193.4	149.8	125.0	102.6	89.6	79.0	77.8	77.8
80°	898.6	652.1	261.8	161.6	122.6	101.4	84.9	80.2	74.3	71.9	70.8
82.5°	497.6	343.2	168.6	120.3	96.7	79.0	71.9	71.9	68.4	64.9	64.9
85°	227.6	192.2	125.0	100.2	82.5	68.4	62.5	62.5	59.0	55.4	54.2
87.5°	176.9	152.1	106.1	93.2	80.2	67.2	60.1	60.1	56.6	54.2	54.2
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)