

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: P588599

Luminaire Tested: **ARC-CA6-130-722-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588599  
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-CA6-130-722-U-33-6-5-X-GHSS  
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD  
Light Source: (3) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

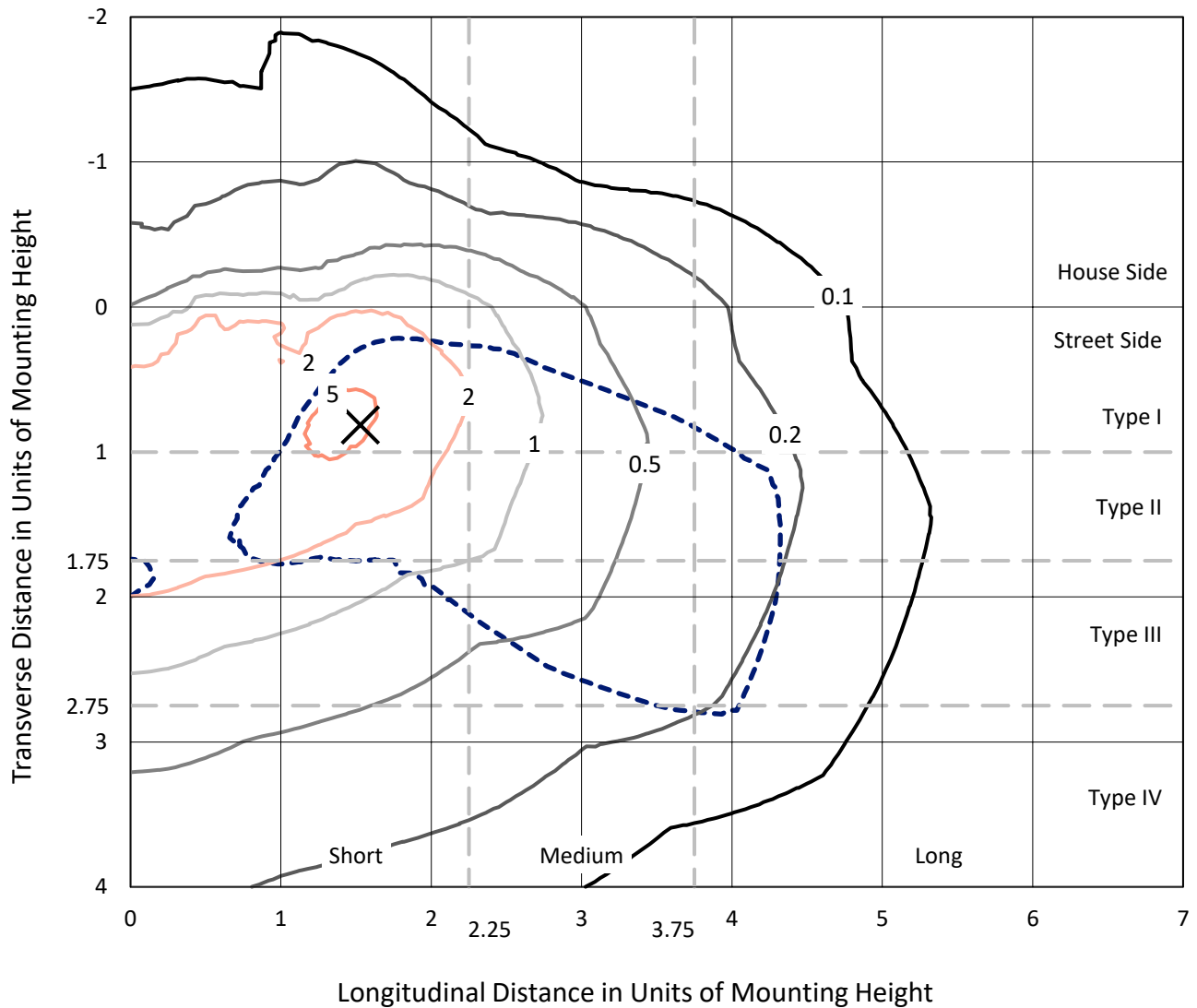
Lumens per Lamp: N/A  
Luminaire Lumens: 4515 lumens  
Efficiency: N/A  
Efficacy: 72.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 0.92')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 62.6  
Input Voltage (V): 120  
Input 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

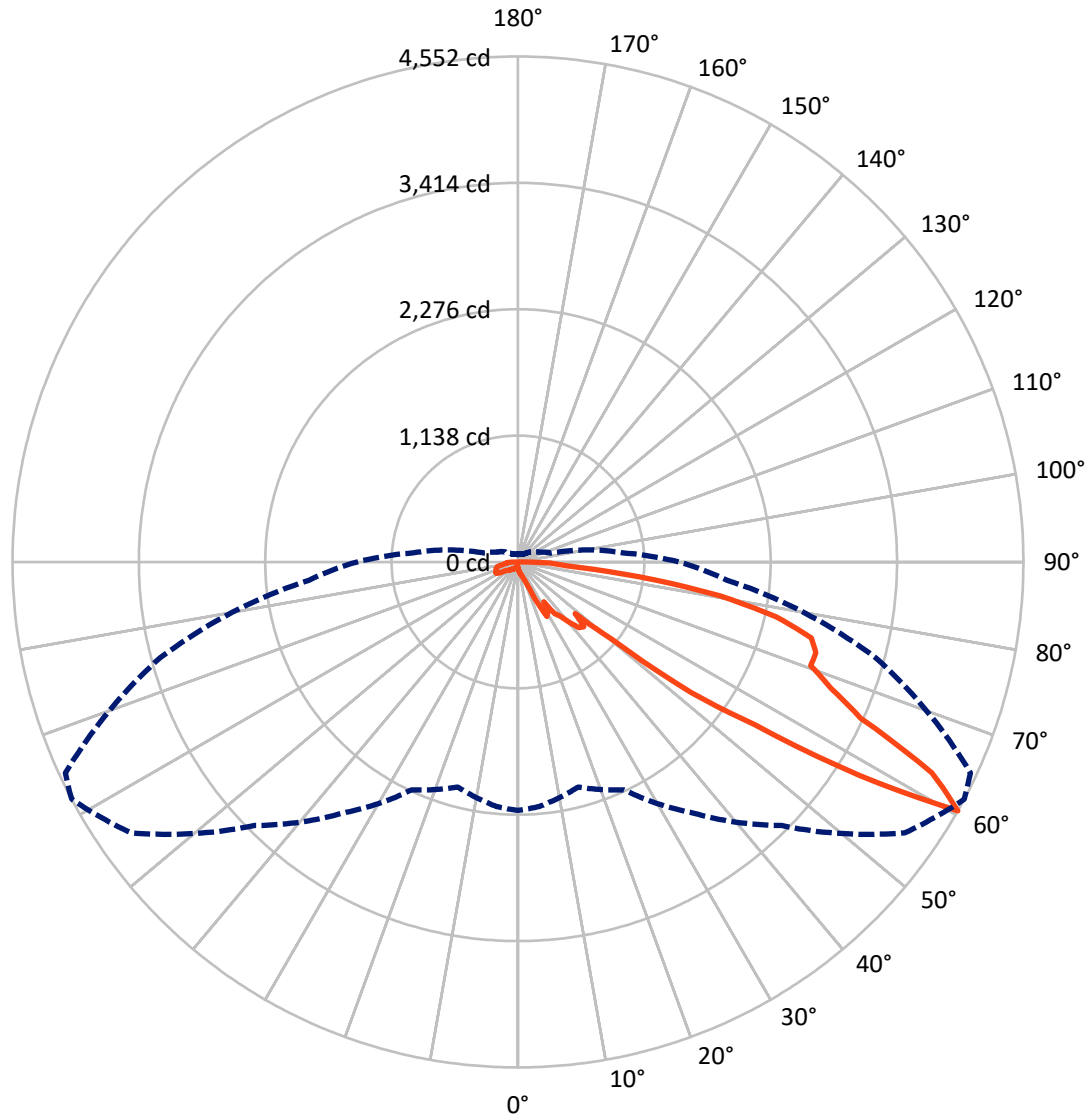
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 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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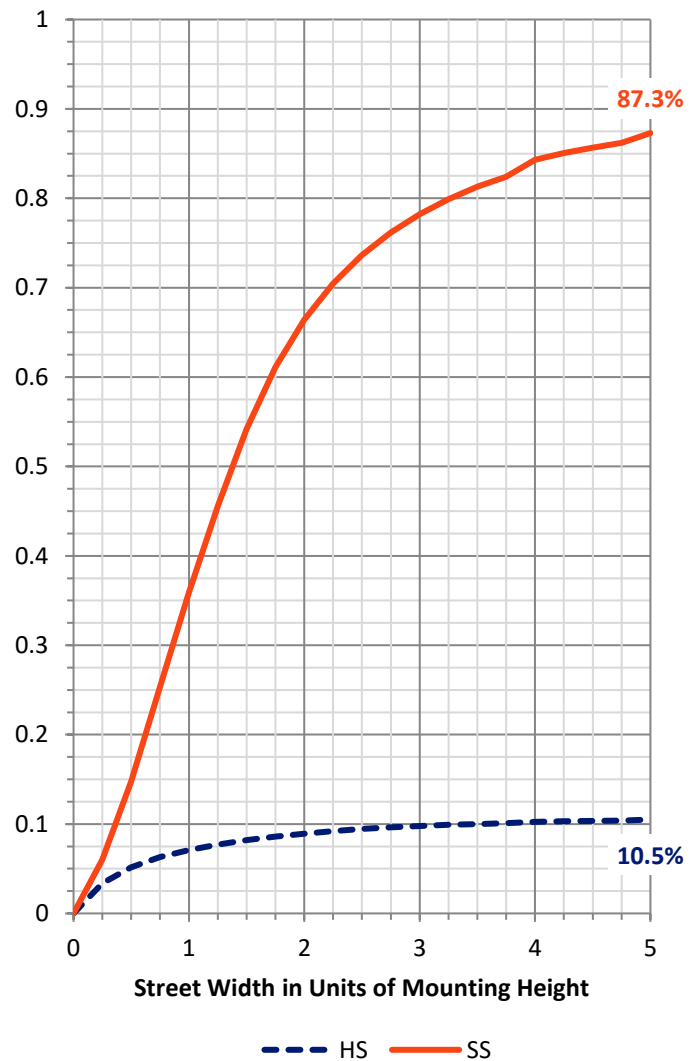
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	492.8	0.0	492.8
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	4022.1	0.0	4022.1
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	4515.0	0.0	4515.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.1	0.1
10°-20°	25.6	0.6
20°-30°	95.8	2.1
30°-40°	189.2	4.2
40°-50°	327.4	7.3
50°-60°	969.4	21.5
60°-70°	1432.2	31.7
70°-80°	1148.8	25.4
80°-90°	320.5	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°	4515.0	100.0
0°-180°	4515.0	100.0

**Coefficient of Utilization**



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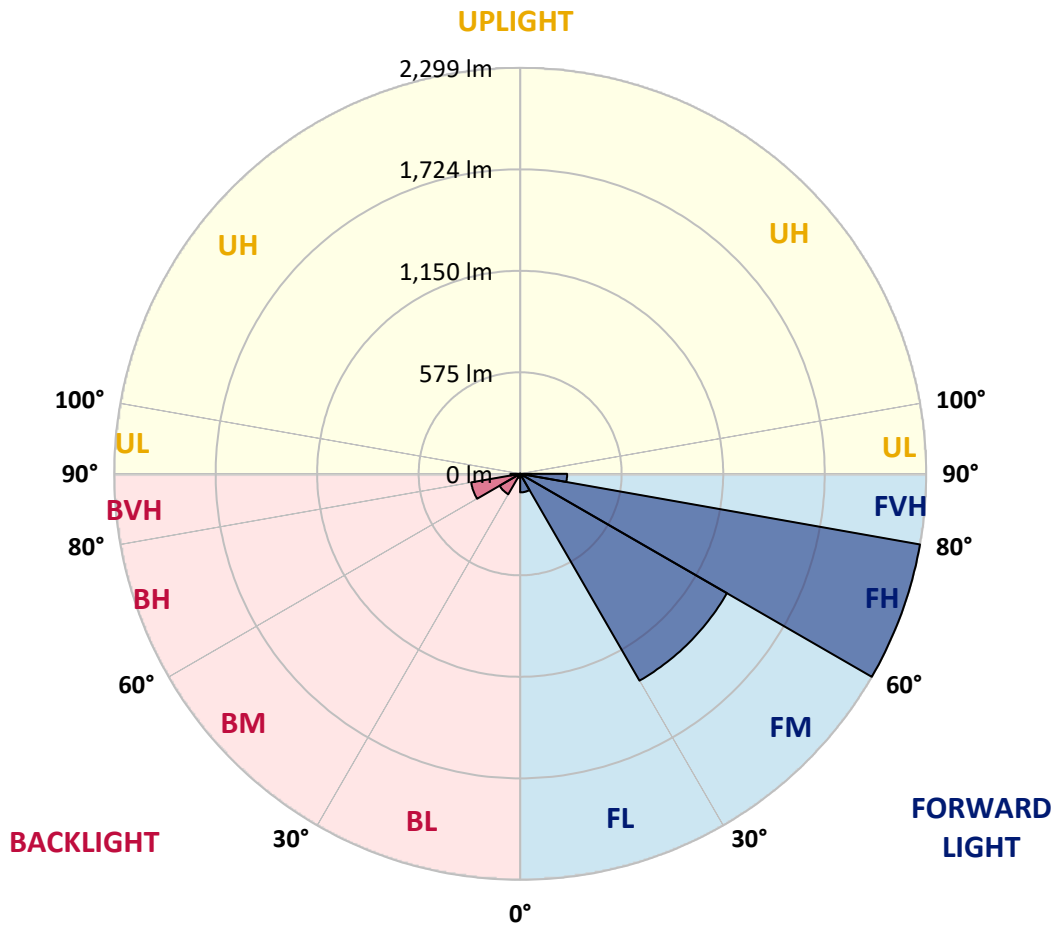
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	105.5	2.3			
FM (30°-60°)	1352.1	29.9			
FH (60°-80°)	2299.0	50.9			G2/5000
FVH (80°-90°)	265.6	5.9			G3/500
BL (0°-30°)	22.0	0.5	B0/110		
BM (30°-60°)	134.0	3.0	B0/220		
BH (60°-80°)	281.9	6.2	B1/500		G1/500
BVH (80°-90°)	54.9	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
2.5°	75.6	74.4	72.0	69.5	68.3	67.1	65.9	64.6	63.4	59.8	57.3
5°	92.7	91.5	89.0	85.4	81.7	79.3	78.1	76.8	74.4	70.7	64.6
7.5°	104.9	104.9	104.9	102.5	98.8	93.9	90.3	87.8	85.4	80.5	74.4
10°	119.5	118.3	118.3	114.7	111.0	107.3	104.9	102.5	100.0	92.7	82.9
12.5°	130.5	129.3	128.1	124.4	123.2	119.5	118.3	113.4	111.0	102.5	90.3
15°	142.7	141.5	139.1	137.8	134.2	131.7	133.0	131.7	129.3	118.3	100.0
17.5°	156.1	154.9	153.7	153.7	153.7	151.3	150.0	147.6	145.2	128.1	106.1
20°	183.0	179.3	175.6	173.2	178.1	179.3	179.3	176.9	176.9	147.6	122.0
22.5°	233.0	229.3	226.9	208.6	215.9	250.1	261.0	248.8	251.3	193.9	134.2
25°	365.9	353.7	347.6	350.1	370.8	408.6	414.7	400.1	407.4	301.3	214.7
27.5°	428.1	430.6	478.1	526.9	533.0	552.6	585.5	555.0	539.1	385.4	268.3
30°	436.7	441.6	529.4	568.4	553.8	544.0	617.2	528.2	501.3	364.7	295.2
32.5°	402.5	424.5	518.4	534.3	500.1	446.4	500.1	425.7	417.2	317.1	280.5
35°	467.2	478.1	520.8	459.9	448.9	514.7	652.6	572.1	552.6	391.5	269.6
37.5°	566.0	562.3	644.0	691.6	674.5	607.4	679.4	618.4	602.6	492.8	385.4
40°	691.6	683.1	781.9	803.8	788.0	784.3	879.4	716.0	685.5	550.1	457.4
42.5°	727.0	729.4	792.8	846.5	834.3	833.1	975.8	807.5	761.1	556.2	502.5
45°	742.8	756.3	878.2	845.3	857.5	835.5	962.4	831.9	792.8	618.4	591.6
47.5°	645.3	652.6	820.9	822.1	667.2	672.1	785.5	692.8	664.8	484.2	509.9
50°	833.1	831.9	892.9	844.1	773.3	895.3	1124.6	1089.2	1068.5	727.0	566.0
52.5°	1205.1	1191.7	1284.4	1361.3	1346.6	1628.4	1969.9	1955.3	1880.9	1425.9	894.1
55°	1585.7	1579.6	1682.1	1952.8	2083.4	2348.0	2679.8	2587.1	2559.1	2100.4	1405.2
57.5°	1899.2	1900.4	1933.3	2166.3	2432.2	2944.5	3519.0	3627.6	3570.2	2711.5	1707.7
60°	2237.0	2210.2	2098.0	2263.9	2761.5	3356.8	4253.3	4552.2	4497.3	3336.0	1890.6
62.5°	2260.2	2233.4	2041.9	2210.2	2590.8	3138.4	3943.5	4186.2	4249.6	3505.6	1945.5
65°	2157.8	2124.8	1888.2	2013.8	2168.7	2500.5	3487.3	3390.9	3482.4	3453.1	1944.3
67.5°	2044.3	2017.5	1795.5	1900.4	2019.9	2241.9	3282.4	3042.1	3136.0	3248.2	2035.8
70°	1929.7	1891.9	1712.5	1826.0	1973.6	2123.6	3022.6	2796.9	2772.5	2751.8	1944.3
72.5°	1910.1	1880.9	1690.6	1769.9	1937.0	2048.0	2979.9	2806.7	2782.3	2654.2	1778.4
75°	1761.3	1758.9	1575.9	1650.3	1851.6	1921.1	2861.6	2728.6	2677.4	2512.7	1565.0
77.5°	1422.2	1403.9	1271.0	1349.1	1530.8	1627.2	2462.7	2376.1	2346.8	2193.1	1294.2
80°	956.3	940.4	883.1	928.2	1097.8	1181.9	1847.9	1840.6	1818.7	1717.4	956.3
82.5°	544.0	570.8	517.2	537.9	596.5	700.1	1149.0	1099.0	1083.1	1011.2	542.8
85°	306.2	300.1	279.3	276.9	323.2	318.4	496.4	425.7	442.8	383.0	258.6
87.5°	220.8	225.7	203.7	203.7	225.7	223.2	312.3	294.0	291.5	273.2	185.4
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°	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
2.5°	56.1	54.9	51.2	47.6	41.5	35.4	31.7	34.2	35.4	36.6	36.6
5°	61.0	58.5	51.2	43.9	36.6	30.5	25.6	23.2	23.2	24.4	24.4
7.5°	72.0	68.3	58.5	50.0	40.3	34.2	28.1	24.4	22.0	22.0	22.0
10°	78.1	74.4	63.4	53.7	43.9	36.6	30.5	25.6	23.2	22.0	22.0
12.5°	84.2	79.3	68.3	57.3	46.4	37.8	31.7	26.8	25.6	25.6	25.6
15°	91.5	84.2	70.7	58.5	47.6	39.0	31.7	28.1	26.8	26.8	26.8
17.5°	98.8	91.5	75.6	59.8	48.8	39.0	32.9	28.1	26.8	28.1	28.1
20°	111.0	97.6	75.6	61.0	48.8	39.0	32.9	28.1	28.1	28.1	28.1
22.5°	117.1	106.1	80.5	62.2	50.0	40.3	32.9	28.1	28.1	28.1	28.1
25°	180.5	134.2	84.2	64.6	51.2	41.5	32.9	29.3	28.1	29.3	29.3
27.5°	226.9	189.1	96.4	68.3	52.4	42.7	34.2	29.3	29.3	30.5	30.5
30°	252.5	215.9	104.9	74.4	56.1	43.9	35.4	30.5	30.5	30.5	30.5
32.5°	240.3	195.2	106.1	81.7	62.2	46.4	36.6	31.7	31.7	31.7	31.7
35°	208.6	161.0	103.7	82.9	65.9	51.2	39.0	32.9	32.9	31.7	31.7
37.5°	291.5	202.5	107.3	82.9	68.3	54.9	42.7	35.4	34.2	32.9	32.9
40°	345.2	225.7	118.3	89.0	68.3	56.1	45.1	39.0	36.6	35.4	34.2
42.5°	383.0	247.6	126.9	97.6	75.6	58.5	46.4	42.7	39.0	36.6	36.6
45°	437.9	262.2	137.8	107.3	82.9	64.6	50.0	43.9	42.7	40.3	39.0
47.5°	400.1	267.1	148.8	118.3	91.5	70.7	54.9	47.6	46.4	43.9	42.7
50°	411.1	259.8	152.5	125.6	100.0	75.6	59.8	52.4	50.0	47.6	47.6
52.5°	561.1	344.0	167.1	129.3	103.7	82.9	64.6	57.3	54.9	52.4	52.4
55°	916.0	526.9	206.1	142.7	107.3	85.4	69.5	63.4	59.8	57.3	56.1
57.5°	1196.6	744.1	261.0	174.4	128.1	90.3	72.0	69.5	67.1	62.2	61.0
60°	1451.5	942.9	307.4	209.8	161.0	117.1	82.9	76.8	75.6	68.3	65.9
62.5°	1658.9	1107.5	345.2	229.3	184.2	151.3	113.4	95.1	85.4	76.8	74.4
65°	1734.5	1162.4	359.8	233.0	190.3	168.3	142.7	129.3	101.2	87.8	85.4
67.5°	1763.8	1150.2	367.1	225.7	185.4	168.3	150.0	151.3	123.2	97.6	93.9
70°	1706.4	1102.7	363.5	218.3	178.1	163.4	146.4	141.5	128.1	104.9	100.0
72.5°	1577.2	1058.8	362.3	217.1	175.6	157.3	135.4	120.8	109.8	103.7	101.2
75°	1447.9	1029.5	357.4	215.9	172.0	148.8	123.2	104.9	90.3	91.5	93.9
77.5°	1229.5	908.7	330.6	200.0	154.9	129.3	106.1	92.7	81.7	80.5	80.5
80°	929.5	674.5	270.8	167.1	126.9	104.9	87.8	82.9	76.8	74.4	73.2
82.5°	514.7	355.0	174.4	124.4	100.0	81.7	74.4	74.4	70.7	67.1	67.1
85°	235.4	198.8	129.3	103.7	85.4	70.7	64.6	64.6	61.0	57.3	56.1
87.5°	183.0	157.3	109.8	96.4	82.9	69.5	62.2	62.2	58.5	56.1	56.1
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)