

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: P588581

Luminaire Tested: **ARC-CA6-110-740-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588581  
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-CA6-110-740-U-33-6-5-X-GHSS  
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD  
Light Source: (3) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

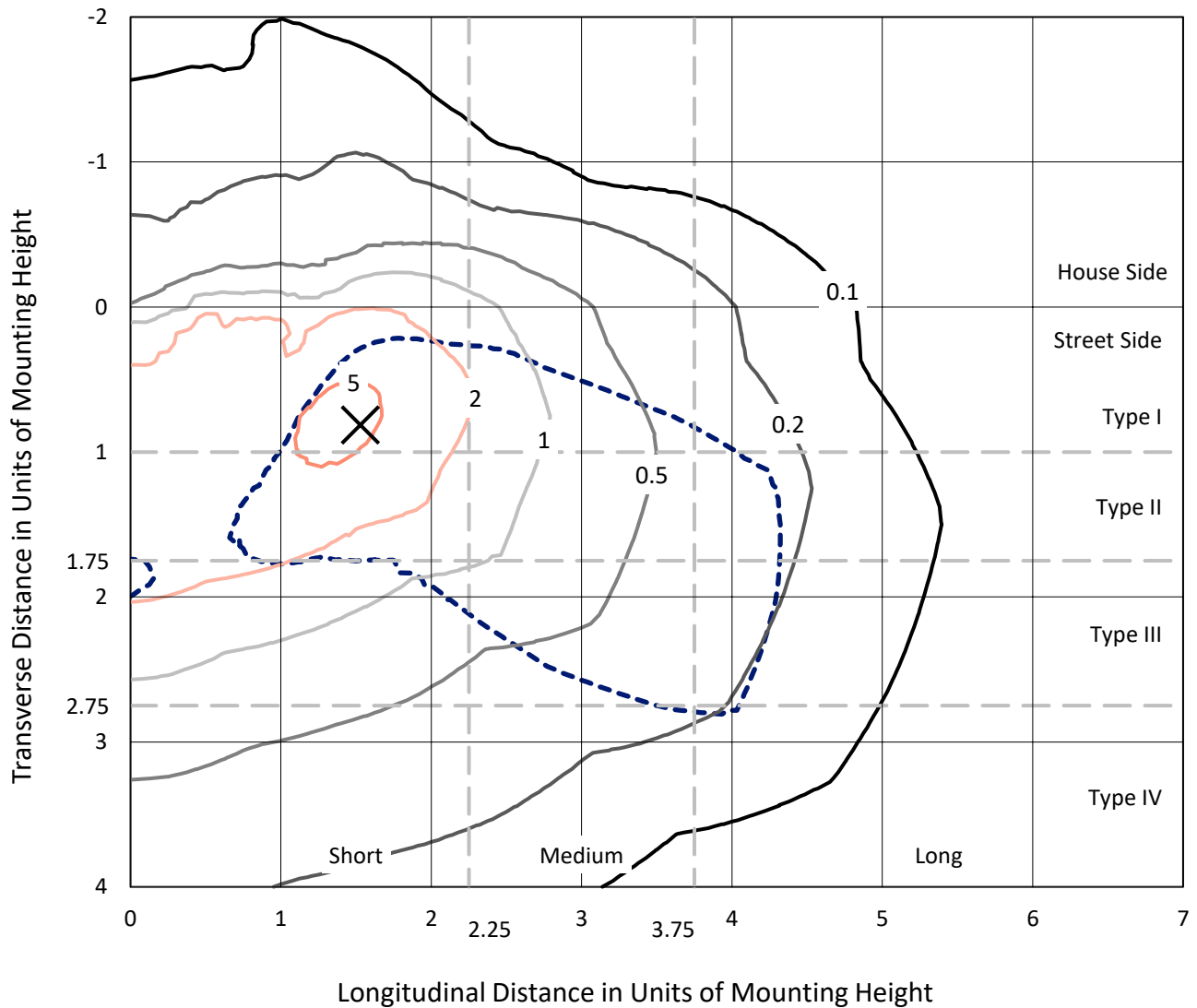
Lumens per Lamp: N/A  
Luminaire Lumens: 4754 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 0.92')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 56.5  
Input Voltage (V): 120  
Input 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

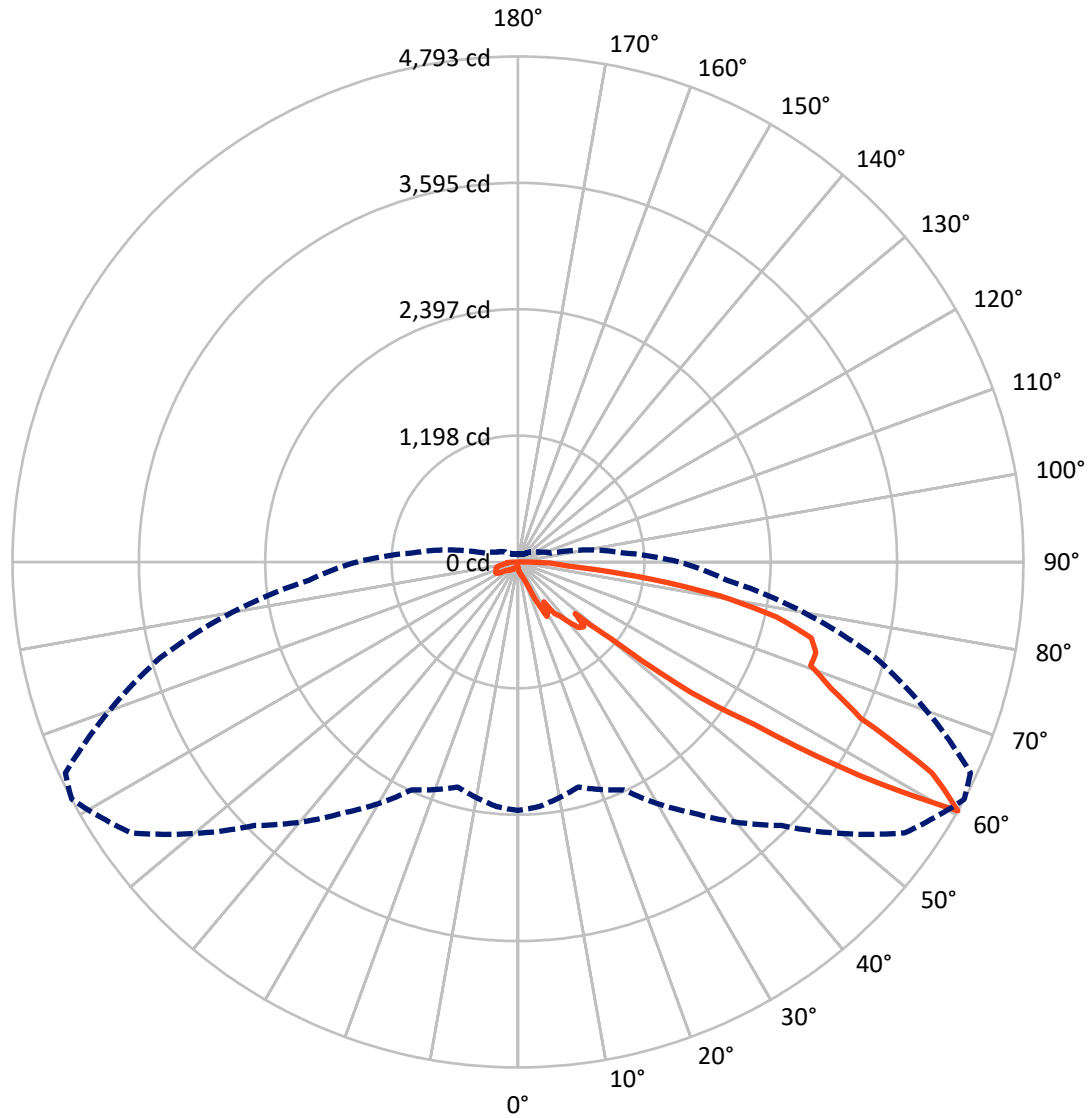
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 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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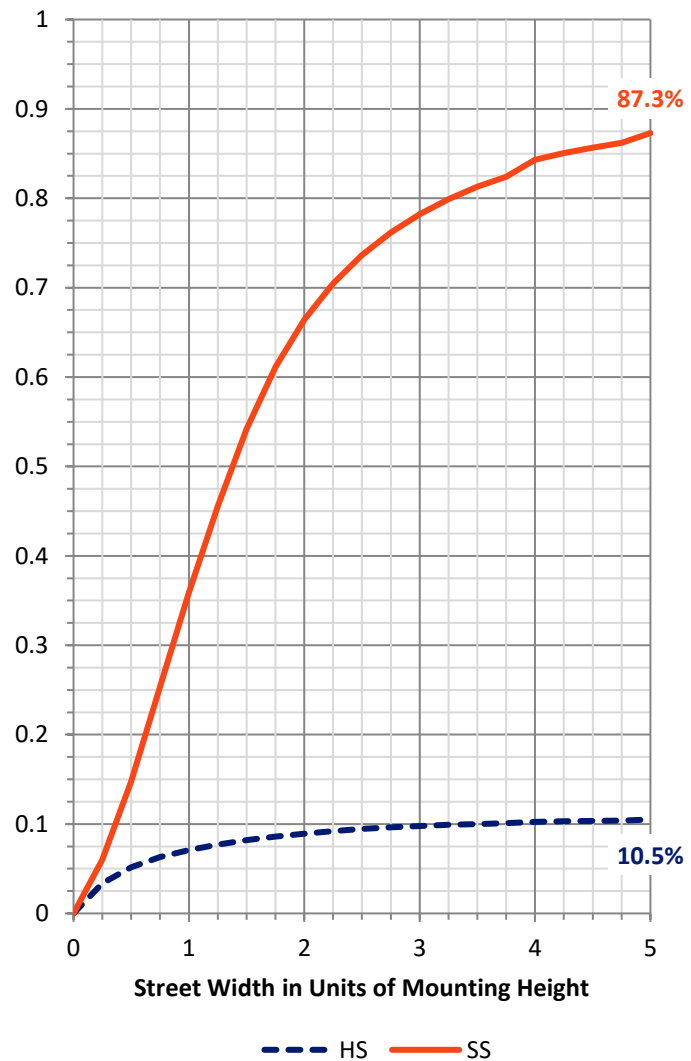
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	518.9	0.0	518.9
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	4235.0	0.0	4235.0
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	4754.0	0.0	4754.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.4	0.1
10°-20°	27.0	0.6
20°-30°	100.8	2.1
30°-40°	199.2	4.2
40°-50°	344.7	7.3
50°-60°	1020.8	21.5
60°-70°	1508.0	31.7
70°-80°	1209.6	25.4
80°-90°	337.5	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°	4754.0	100.0
0°-180°	4754.0	100.0

**Coefficient of Utilization**



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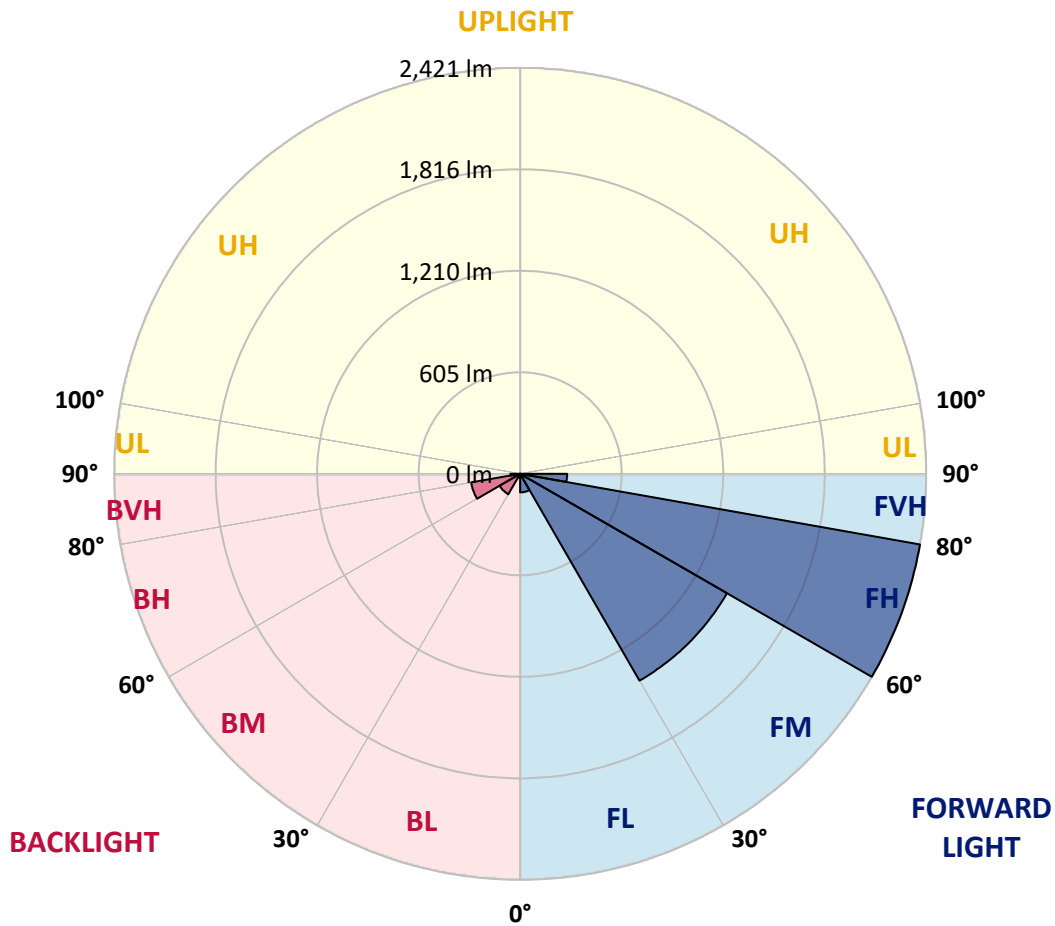
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	111.1	2.3			
FM (30°-60°)	1423.6	29.9			
FH (60°-80°)	2420.7	50.9			G2/5000
FVH (80°-90°)	279.7	5.9			G3/500
BL (0°-30°)	23.2	0.5	B0/110		
BM (30°-60°)	141.1	3.0	B0/220		
BH (60°-80°)	296.9	6.2	B1/500		G1/500
BVH (80°-90°)	57.9	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°	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
2.5°	79.6	78.3	75.8	73.2	71.9	70.6	69.4	68.1	66.8	62.9	60.4
5°	97.6	96.3	93.8	89.9	86.1	83.5	82.2	80.9	78.3	74.5	68.1
7.5°	110.5	110.5	110.5	107.9	104.0	98.9	95.0	92.5	89.9	84.8	78.3
10°	125.9	124.6	124.6	120.7	116.9	113.0	110.5	107.9	105.3	97.6	87.3
12.5°	137.4	136.1	134.9	131.0	129.7	125.9	124.6	119.4	116.9	107.9	95.0
15°	150.3	149.0	146.4	145.1	141.3	138.7	140.0	138.7	136.1	124.6	105.3
17.5°	164.4	163.1	161.8	161.8	161.8	159.3	158.0	155.4	152.8	134.9	111.7
20°	192.6	188.8	184.9	182.4	187.5	188.8	188.8	186.2	186.2	155.4	128.4
22.5°	245.3	241.5	238.9	219.6	227.3	263.3	274.8	262.0	264.6	204.2	141.3
25°	385.3	372.5	366.0	368.6	390.4	430.3	436.7	421.3	429.0	317.2	226.0
27.5°	450.8	453.4	503.5	554.8	561.3	581.8	616.5	584.4	567.7	405.8	282.6
30°	459.8	464.9	557.4	598.5	583.1	572.8	649.9	556.1	527.9	384.0	310.8
32.5°	423.8	446.9	545.8	562.5	526.6	470.1	526.6	448.2	439.2	333.9	295.4
35°	491.9	503.5	548.4	484.2	472.6	542.0	687.1	602.4	581.8	412.3	283.8
37.5°	595.9	592.1	678.1	728.2	710.2	639.6	715.4	651.2	634.5	518.9	405.8
40°	728.2	719.2	823.3	846.4	829.7	825.8	926.0	753.9	721.8	579.2	481.6
42.5°	765.5	768.0	834.8	891.3	878.5	877.2	1027.5	850.2	801.4	585.7	529.1
45°	782.2	796.3	924.7	890.0	902.9	879.8	1013.3	875.9	834.8	651.2	622.9
47.5°	679.4	687.1	864.4	865.6	702.5	707.7	827.1	729.5	700.0	509.9	536.8
50°	877.2	875.9	940.1	888.8	814.3	942.7	1184.2	1146.9	1125.1	765.5	595.9
52.5°	1268.9	1254.8	1352.4	1433.3	1417.9	1714.6	2074.2	2058.8	1980.4	1501.4	941.4
55°	1669.6	1663.2	1771.1	2056.2	2193.6	2472.3	2821.7	2724.1	2694.5	2211.6	1479.5
57.5°	1999.7	2001.0	2035.7	2281.0	2561.0	3100.4	3705.3	3819.6	3759.2	2855.1	1798.1
60°	2355.5	2327.2	2209.0	2383.7	2907.7	3534.5	4478.5	4793.1	4735.3	3512.6	1990.7
62.5°	2379.9	2351.6	2150.0	2327.2	2727.9	3304.6	4152.2	4407.8	4474.6	3691.2	2048.5
65°	2272.0	2237.3	1988.1	2120.4	2283.5	2632.9	3671.9	3570.4	3666.8	3635.9	2047.2
67.5°	2152.5	2124.3	1890.5	2001.0	2126.8	2360.6	3456.1	3203.1	3302.0	3420.2	2143.5
70°	2031.8	1992.0	1803.2	1922.6	2078.0	2236.0	3182.6	2945.0	2919.3	2897.4	2047.2
72.5°	2011.3	1980.4	1780.1	1863.6	2039.5	2156.4	3137.6	2955.2	2929.6	2794.7	1872.6
75°	1854.6	1852.0	1659.4	1737.7	1949.6	2022.8	3013.0	2873.0	2819.1	2645.7	1647.8
77.5°	1497.5	1478.3	1338.3	1420.5	1611.8	1713.3	2593.1	2501.9	2471.0	2309.2	1362.7
80°	1006.9	990.2	929.9	977.4	1155.9	1244.5	1945.8	1938.1	1914.9	1808.3	1006.9
82.5°	572.8	601.1	544.6	566.4	628.0	737.2	1209.8	1157.2	1140.5	1064.7	571.5
85°	322.4	315.9	294.1	291.5	340.3	335.2	522.7	448.2	466.2	403.3	272.3
87.5°	232.5	237.6	214.5	214.5	237.6	235.0	328.8	309.5	307.0	287.7	195.2
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°	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
2.5°	59.1	57.8	53.9	50.1	43.7	37.2	33.4	36.0	37.2	38.5	38.5
5°	64.2	61.6	53.9	46.2	38.5	32.1	27.0	24.4	24.4	25.7	25.7
7.5°	75.8	71.9	61.6	52.7	42.4	36.0	29.5	25.7	23.1	23.1	23.1
10°	82.2	78.3	66.8	56.5	46.2	38.5	32.1	27.0	24.4	23.1	23.1
12.5°	88.6	83.5	71.9	60.4	48.8	39.8	33.4	28.3	27.0	27.0	27.0
15°	96.3	88.6	74.5	61.6	50.1	41.1	33.4	29.5	28.3	28.3	28.3
17.5°	104.0	96.3	79.6	62.9	51.4	41.1	34.7	29.5	28.3	29.5	29.5
20°	116.9	102.7	79.6	64.2	51.4	41.1	34.7	29.5	29.5	29.5	29.5
22.5°	123.3	111.7	84.8	65.5	52.7	42.4	34.7	29.5	29.5	29.5	29.5
25°	190.1	141.3	88.6	68.1	53.9	43.7	34.7	30.8	29.5	30.8	30.8
27.5°	238.9	199.1	101.5	71.9	55.2	45.0	36.0	30.8	30.8	32.1	32.1
30°	265.9	227.3	110.5	78.3	59.1	46.2	37.2	32.1	32.1	32.1	32.1
32.5°	253.0	205.5	111.7	86.1	65.5	48.8	38.5	33.4	33.4	33.4	33.4
35°	219.6	169.5	109.2	87.3	69.4	53.9	41.1	34.7	34.7	33.4	33.4
37.5°	307.0	213.2	113.0	87.3	71.9	57.8	45.0	37.2	36.0	34.7	34.7
40°	363.5	237.6	124.6	93.8	71.9	59.1	47.5	41.1	38.5	37.2	36.0
42.5°	403.3	260.7	133.6	102.7	79.6	61.6	48.8	45.0	41.1	38.5	38.5
45°	461.1	276.1	145.1	113.0	87.3	68.1	52.7	46.2	45.0	42.4	41.1
47.5°	421.3	281.3	156.7	124.6	96.3	74.5	57.8	50.1	48.8	46.2	45.0
50°	432.8	273.6	160.5	132.3	105.3	79.6	62.9	55.2	52.7	50.1	50.1
52.5°	590.8	362.2	176.0	136.1	109.2	87.3	68.1	60.4	57.8	55.2	55.2
55°	964.5	554.8	217.1	150.3	113.0	89.9	73.2	66.8	62.9	60.4	59.1
57.5°	1259.9	783.4	274.8	183.7	134.9	95.0	75.8	73.2	70.6	65.5	64.2
60°	1528.4	992.8	323.7	220.9	169.5	123.3	87.3	80.9	79.6	71.9	69.4
62.5°	1746.7	1166.2	363.5	241.5	193.9	159.3	119.4	100.2	89.9	80.9	78.3
65°	1826.3	1224.0	378.9	245.3	200.4	177.2	150.3	136.1	106.6	92.5	89.9
67.5°	1857.1	1211.1	386.6	237.6	195.2	177.2	158.0	159.3	129.7	102.7	98.9
70°	1796.8	1161.0	382.7	229.9	187.5	172.1	154.1	149.0	134.9	110.5	105.3
72.5°	1660.6	1114.8	381.4	228.6	184.9	165.7	142.6	127.1	115.6	109.2	106.6
75°	1524.5	1084.0	376.3	227.3	181.1	156.7	129.7	110.5	95.0	96.3	98.9
77.5°	1294.6	956.8	348.1	210.6	163.1	136.1	111.7	97.6	86.1	84.8	84.8
80°	978.7	710.2	285.1	176.0	133.6	110.5	92.5	87.3	80.9	78.3	77.1
82.5°	542.0	373.7	183.7	131.0	105.3	86.1	78.3	78.3	74.5	70.6	70.6
85°	247.9	209.3	136.1	109.2	89.9	74.5	68.1	68.1	64.2	60.4	59.1
87.5°	192.6	165.7	115.6	101.5	87.3	73.2	65.5	65.5	61.6	59.1	59.1
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)