

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: P588577

Luminaire Tested: **ARC-CA6-110-727-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588577  
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-CA6-110-727-U-33-6-5-X-GHSS  
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD  
Light Source: (3) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

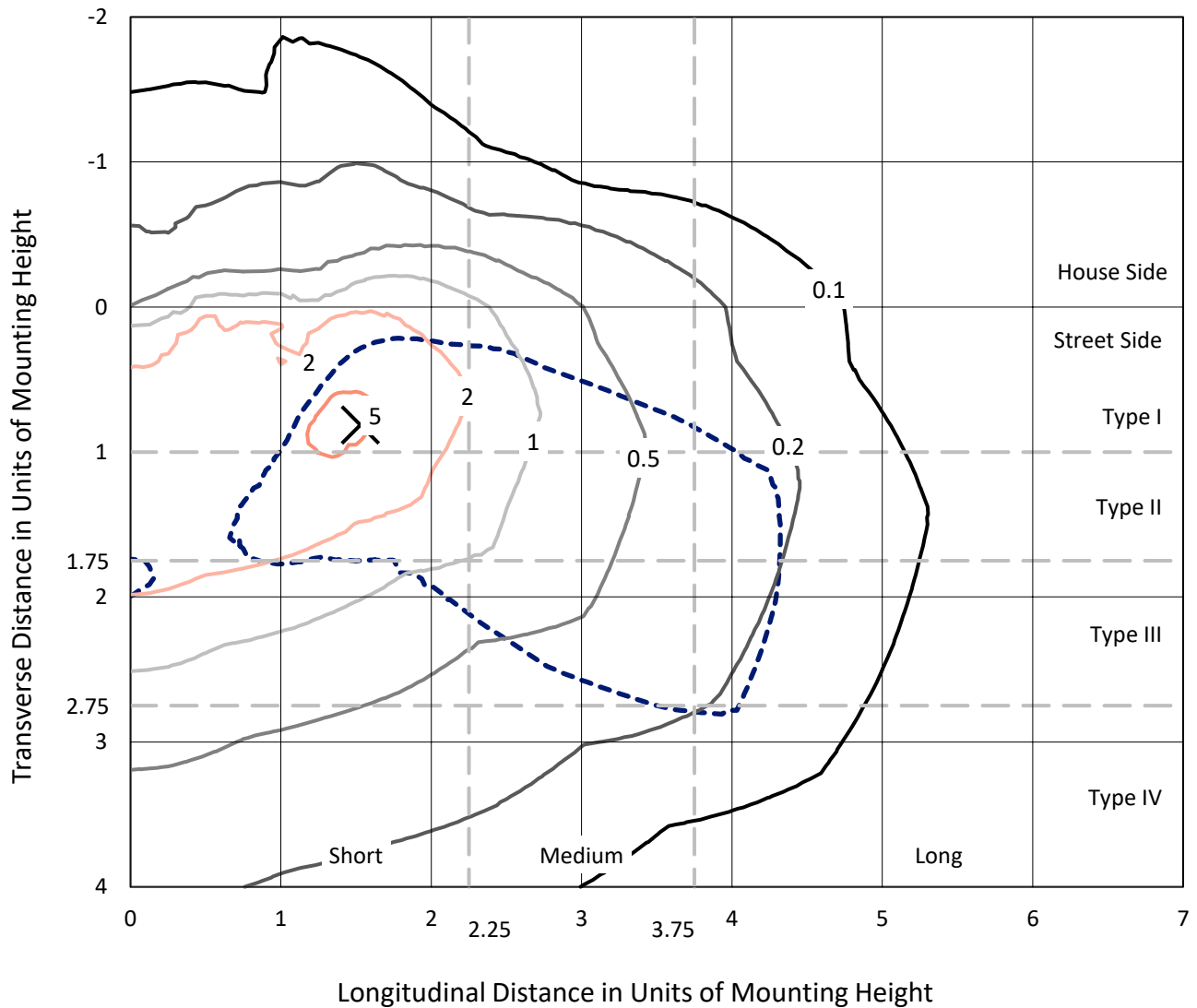
Lumens per Lamp: N/A  
Luminaire Lumens: 4445 lumens  
Efficiency: N/A  
Efficacy: 78.7 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 0.92')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 56.5  
Input Voltage (V): 120  
Input 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

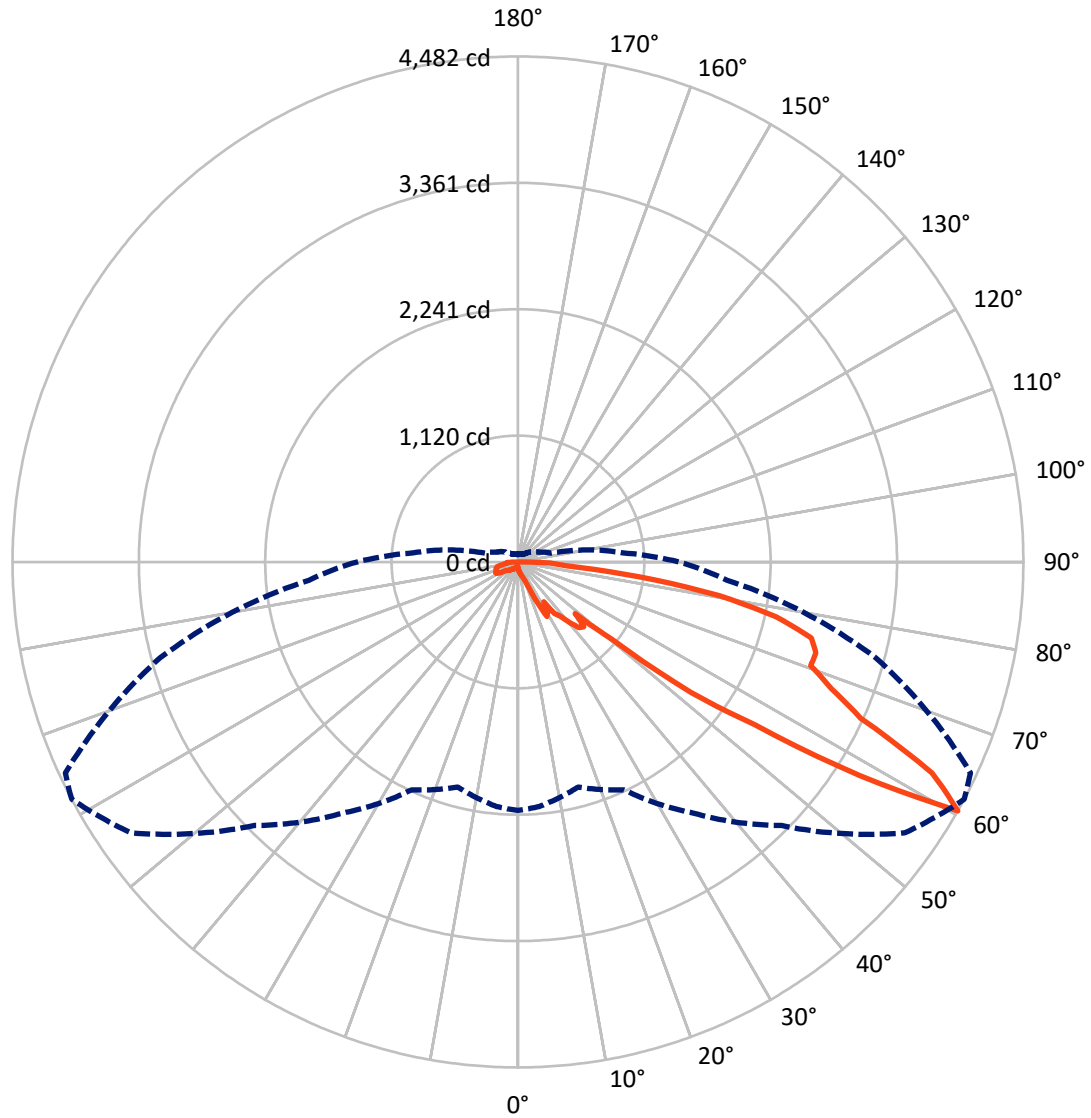
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 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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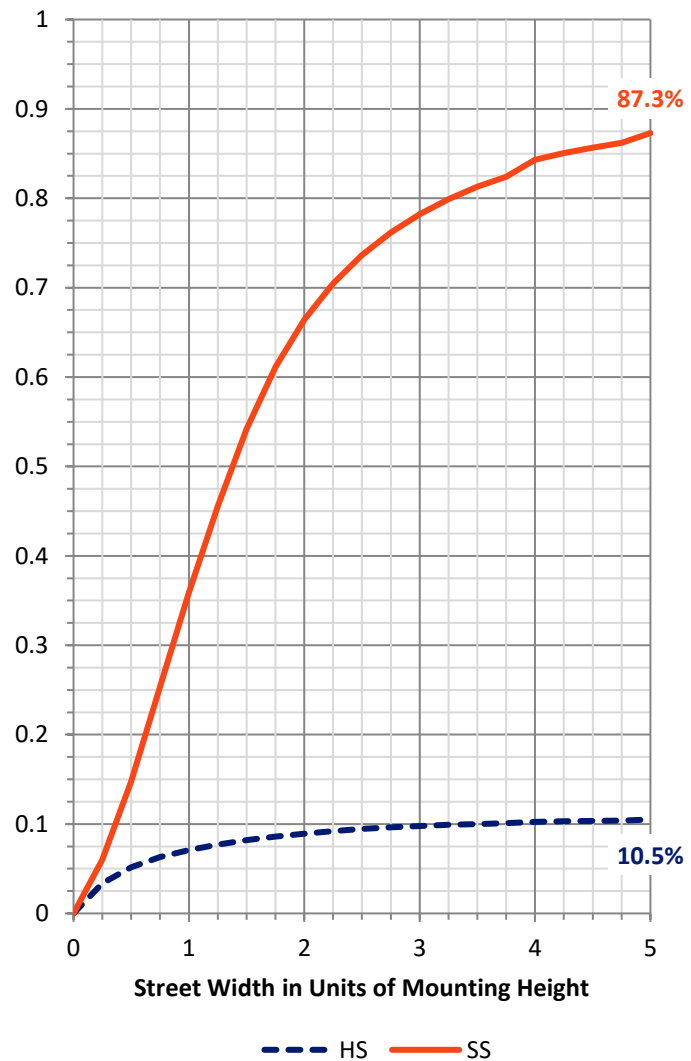
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	485.2	0.0	485.2
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	3959.8	0.0	3959.8
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	4445.0	0.0	4445.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.0	0.1
10°-20°	25.2	0.6
20°-30°	94.3	2.1
30°-40°	186.3	4.2
40°-50°	322.3	7.3
50°-60°	954.4	21.5
60°-70°	1410.0	31.7
70°-80°	1130.9	25.4
80°-90°	315.6	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°	4445.0	100.0
0°-180°	4445.0	100.0

**Coefficient of Utilization**



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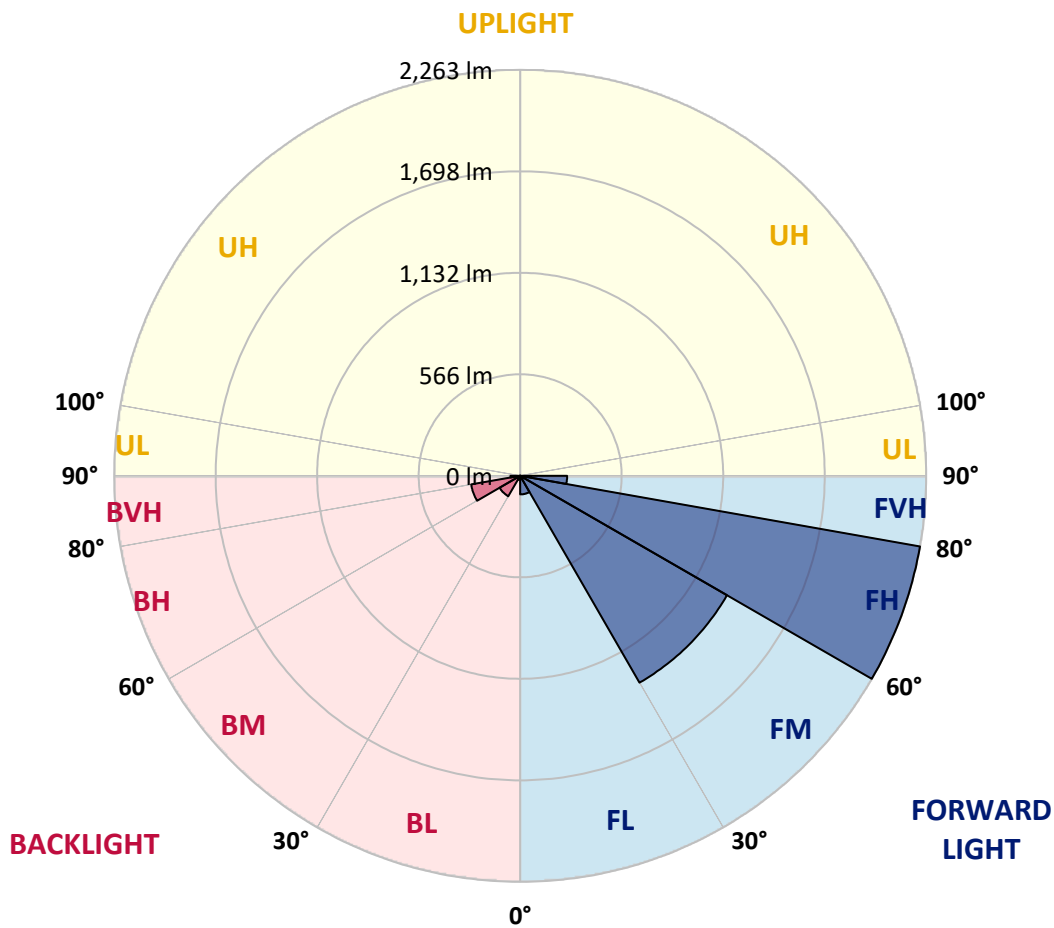
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	103.8	2.3			
FM (30°-60°)	1331.1	29.9			
FH (60°-80°)	2263.4	50.9			G2/5000
FVH (80°-90°)	261.5	5.9			G3/500
BL (0°-30°)	21.7	0.5	B0/110		
BM (30°-60°)	131.9	3.0	B0/220		
BH (60°-80°)	277.6	6.2	B1/500		G1/500
BVH (80°-90°)	54.1	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
2.5°	74.5	73.3	70.9	68.4	67.2	66.0	64.8	63.6	62.4	58.8	56.4
5°	91.3	90.1	87.7	84.1	80.5	78.1	76.9	75.7	73.3	69.6	63.6
7.5°	103.3	103.3	103.3	100.9	97.3	92.5	88.9	86.5	84.1	79.3	73.3
10°	117.7	116.5	116.5	112.9	109.3	105.7	103.3	100.9	98.5	91.3	81.7
12.5°	128.5	127.3	126.1	122.5	121.3	117.7	116.5	111.7	109.3	100.9	88.9
15°	140.5	139.3	136.9	135.7	132.1	129.7	130.9	129.7	127.3	116.5	98.5
17.5°	153.7	152.5	151.3	151.3	151.3	148.9	147.7	145.3	142.9	126.1	104.5
20°	180.1	176.5	172.9	170.5	175.3	176.5	176.5	174.1	174.1	145.3	120.1
22.5°	229.4	225.8	223.4	205.3	212.6	246.2	257.0	245.0	247.4	190.9	132.1
25°	360.3	348.2	342.2	344.6	365.1	402.3	408.3	393.9	401.1	296.6	211.3
27.5°	421.5	423.9	470.7	518.8	524.8	544.0	576.4	546.4	530.8	379.5	264.2
30°	429.9	434.7	521.2	559.6	545.2	535.6	607.6	520.0	493.5	359.1	290.6
32.5°	396.3	417.9	510.4	526.0	492.3	439.5	492.3	419.1	410.7	312.2	276.2
35°	459.9	470.7	512.8	452.7	441.9	506.8	642.5	563.2	544.0	385.5	265.4
37.5°	557.2	553.6	634.0	680.9	664.1	598.0	668.9	608.8	593.2	485.1	379.5
40°	680.9	672.5	769.7	791.4	775.7	772.1	865.8	704.9	674.9	541.6	450.3
42.5°	715.7	718.1	780.6	833.4	821.4	820.2	960.7	795.0	749.3	547.6	494.8
45°	731.3	744.5	864.6	832.2	844.2	822.6	947.5	819.0	780.6	608.8	582.4
47.5°	635.2	642.5	808.2	809.4	656.9	661.7	773.3	682.1	654.5	476.7	502.0
50°	820.2	819.0	879.0	831.0	761.3	881.4	1107.2	1072.4	1051.9	715.7	557.2
52.5°	1186.4	1173.2	1264.5	1340.1	1325.7	1603.1	1939.4	1925.0	1851.7	1403.8	880.2
55°	1561.1	1555.1	1656.0	1922.6	2051.1	2311.6	2638.3	2547.0	2519.4	2067.9	1383.4
57.5°	1869.7	1870.9	1903.3	2132.7	2394.5	2898.9	3464.5	3571.3	3514.9	2669.5	1681.2
60°	2202.4	2175.9	2065.5	2228.8	2718.7	3304.7	4187.4	4481.6	4427.5	3284.3	1861.3
62.5°	2225.2	2198.8	2010.2	2175.9	2550.6	3089.8	3882.3	4121.3	4183.8	3451.2	1915.4
65°	2124.3	2091.9	1858.9	1982.6	2135.1	2461.7	3433.2	3338.4	3428.4	3399.6	1914.2
67.5°	2012.6	1986.2	1767.7	1870.9	1988.6	2207.2	3231.5	2994.9	3087.4	3197.9	2004.2
70°	1899.7	1862.5	1686.0	1797.7	1943.0	2090.7	2975.7	2753.6	2729.5	2709.1	1914.2
72.5°	1880.5	1851.7	1664.4	1742.4	1907.0	2016.2	2933.7	2763.2	2739.1	2613.1	1750.8
75°	1734.0	1731.6	1551.5	1624.8	1822.9	1891.3	2817.2	2686.3	2635.9	2473.8	1540.7
77.5°	1400.2	1382.2	1251.3	1328.1	1507.1	1601.9	2424.5	2339.3	2310.4	2159.1	1274.1
80°	941.5	925.9	869.4	913.8	1080.8	1163.6	1819.3	1812.1	1790.5	1690.8	941.5
82.5°	535.6	562.0	509.2	529.6	587.2	689.3	1131.2	1082.0	1066.4	995.5	534.4
85°	301.4	295.4	275.0	272.6	318.2	313.4	488.7	419.1	435.9	377.1	254.6
87.5°	217.4	222.2	200.5	200.5	222.2	219.8	307.4	289.4	287.0	269.0	182.5
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°	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
2.5°	55.2	54.0	50.4	46.8	40.8	34.8	31.2	33.6	34.8	36.0	36.0
5°	60.0	57.6	50.4	43.2	36.0	30.0	25.2	22.8	22.8	24.0	24.0
7.5°	70.9	67.2	57.6	49.2	39.6	33.6	27.6	24.0	21.6	21.6	21.6
10°	76.9	73.3	62.4	52.8	43.2	36.0	30.0	25.2	22.8	21.6	21.6
12.5°	82.9	78.1	67.2	56.4	45.6	37.2	31.2	26.4	25.2	25.2	25.2
15°	90.1	82.9	69.6	57.6	46.8	38.4	31.2	27.6	26.4	26.4	26.4
17.5°	97.3	90.1	74.5	58.8	48.0	38.4	32.4	27.6	26.4	27.6	27.6
20°	109.3	96.1	74.5	60.0	48.0	38.4	32.4	27.6	27.6	27.6	27.6
22.5°	115.3	104.5	79.3	61.2	49.2	39.6	32.4	27.6	27.6	27.6	27.6
25°	177.7	132.1	82.9	63.6	50.4	40.8	32.4	28.8	27.6	28.8	28.8
27.5°	223.4	186.1	94.9	67.2	51.6	42.0	33.6	28.8	28.8	30.0	30.0
30°	248.6	212.6	103.3	73.3	55.2	43.2	34.8	30.0	30.0	30.0	30.0
32.5°	236.6	192.1	104.5	80.5	61.2	45.6	36.0	31.2	31.2	31.2	31.2
35°	205.3	158.5	102.1	81.7	64.8	50.4	38.4	32.4	32.4	31.2	31.2
37.5°	287.0	199.3	105.7	81.7	67.2	54.0	42.0	34.8	33.6	32.4	32.4
40°	339.8	222.2	116.5	87.7	67.2	55.2	44.4	38.4	36.0	34.8	33.6
42.5°	377.1	243.8	124.9	96.1	74.5	57.6	45.6	42.0	38.4	36.0	36.0
45°	431.1	258.2	135.7	105.7	81.7	63.6	49.2	43.2	42.0	39.6	38.4
47.5°	393.9	263.0	146.5	116.5	90.1	69.6	54.0	46.8	45.6	43.2	42.0
50°	404.7	255.8	150.1	123.7	98.5	74.5	58.8	51.6	49.2	46.8	46.8
52.5°	552.4	338.6	164.5	127.3	102.1	81.7	63.6	56.4	54.0	51.6	51.6
55°	901.8	518.8	202.9	140.5	105.7	84.1	68.4	62.4	58.8	56.4	55.2
57.5°	1178.0	732.5	257.0	171.7	126.1	88.9	70.9	68.4	66.0	61.2	60.0
60°	1429.0	928.3	302.6	206.5	158.5	115.3	81.7	75.7	74.5	67.2	64.8
62.5°	1633.2	1090.4	339.8	225.8	181.3	148.9	111.7	93.7	84.1	75.7	73.3
65°	1707.6	1144.4	354.3	229.4	187.3	165.7	140.5	127.3	99.7	86.5	84.1
67.5°	1736.4	1132.4	361.5	222.2	182.5	165.7	147.7	148.9	121.3	96.1	92.5
70°	1680.0	1085.6	357.9	215.0	175.3	160.9	144.1	139.3	126.1	103.3	98.5
72.5°	1552.7	1042.3	356.7	213.8	172.9	154.9	133.3	118.9	108.1	102.1	99.7
75°	1425.4	1013.5	351.8	212.6	169.3	146.5	121.3	103.3	88.9	90.1	92.5
77.5°	1210.5	894.6	325.4	196.9	152.5	127.3	104.5	91.3	80.5	79.3	79.3
80°	915.0	664.1	266.6	164.5	124.9	103.3	86.5	81.7	75.7	73.3	72.1
82.5°	506.8	349.4	171.7	122.5	98.5	80.5	73.3	73.3	69.6	66.0	66.0
85°	231.8	195.7	127.3	102.1	84.1	69.6	63.6	63.6	60.0	56.4	55.2
87.5°	180.1	154.9	108.1	94.9	81.7	68.4	61.2	61.2	57.6	55.2	55.2
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)