

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: P588587

Luminaire Tested: **ARC-CA6-120-722-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588587  
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-CA6-120-722-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**

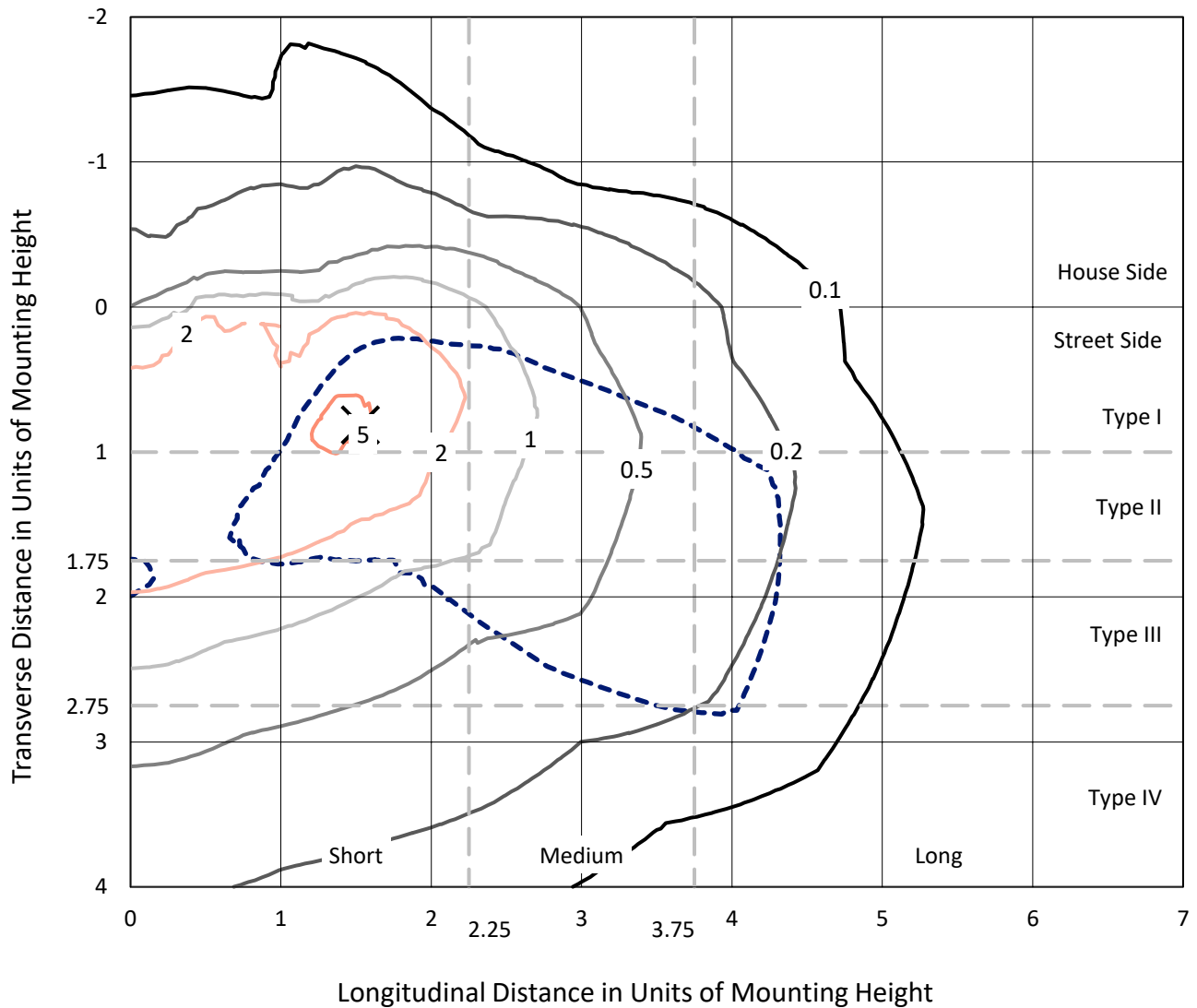
Lumens per Lamp: N/A  
Luminaire Lumens: 4343 lumens  
Efficiency: N/A  
Efficacy: 72.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 0.92')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 59.8  
Input Voltage (V): 120  
Input 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

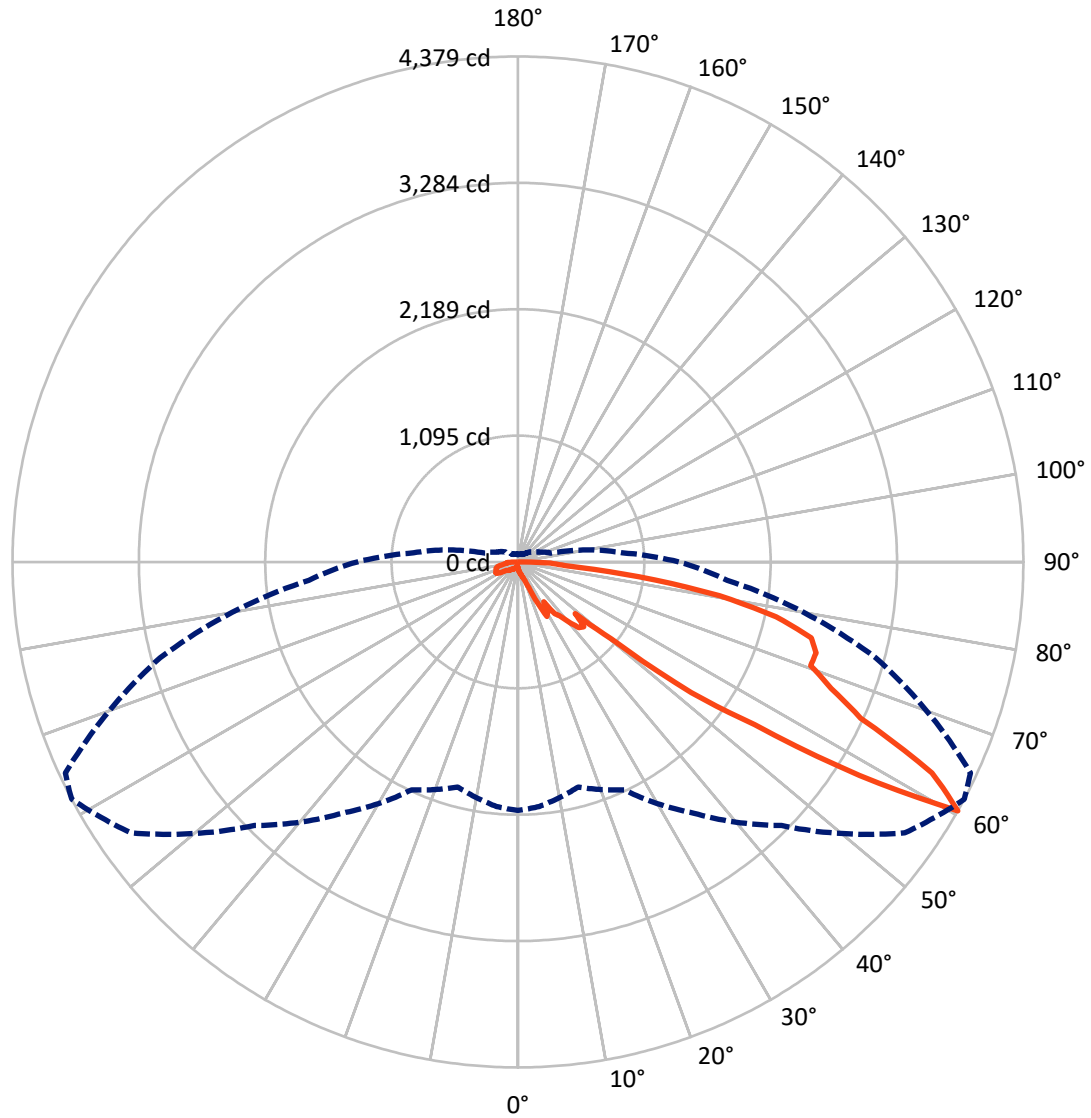
× Max cd  
 - - - 1/2 Max cd



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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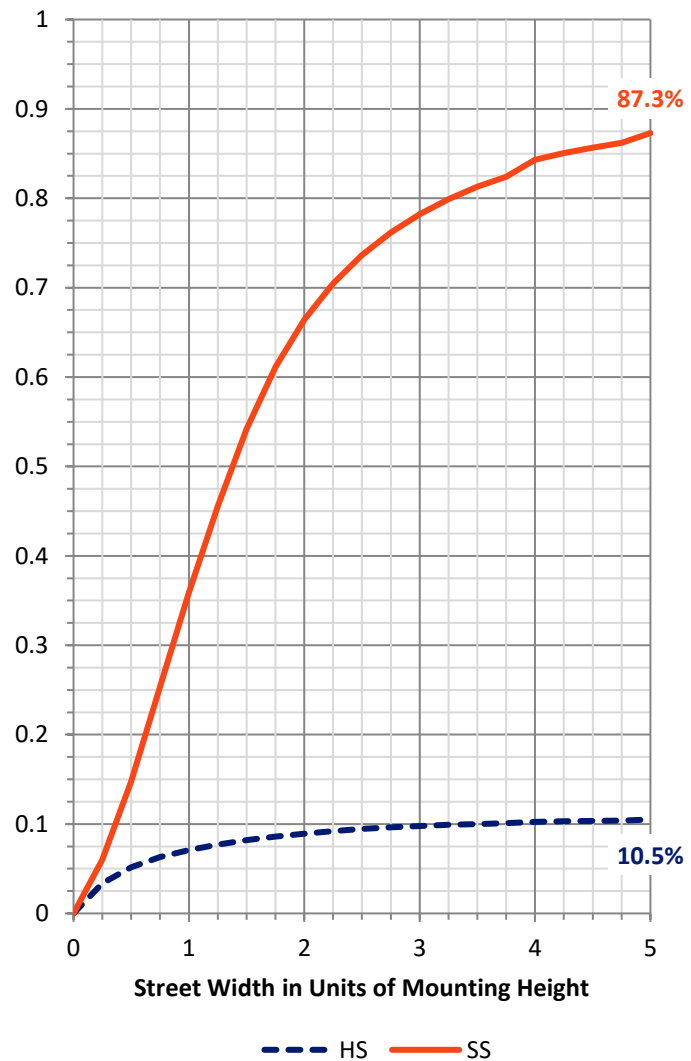
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	474.1	0.0	474.1
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	3868.9	0.0	3868.9
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	4343.0	0.0	4343.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.8	0.1
10°-20°	24.7	0.6
20°-30°	92.1	2.1
30°-40°	182.0	4.2
40°-50°	314.9	7.3
50°-60°	932.5	21.5
60°-70°	1377.6	31.7
70°-80°	1105.0	25.4
80°-90°	308.3	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°	4343.0	100.0
0°-180°	4343.0	100.0

**Coefficient of Utilization**



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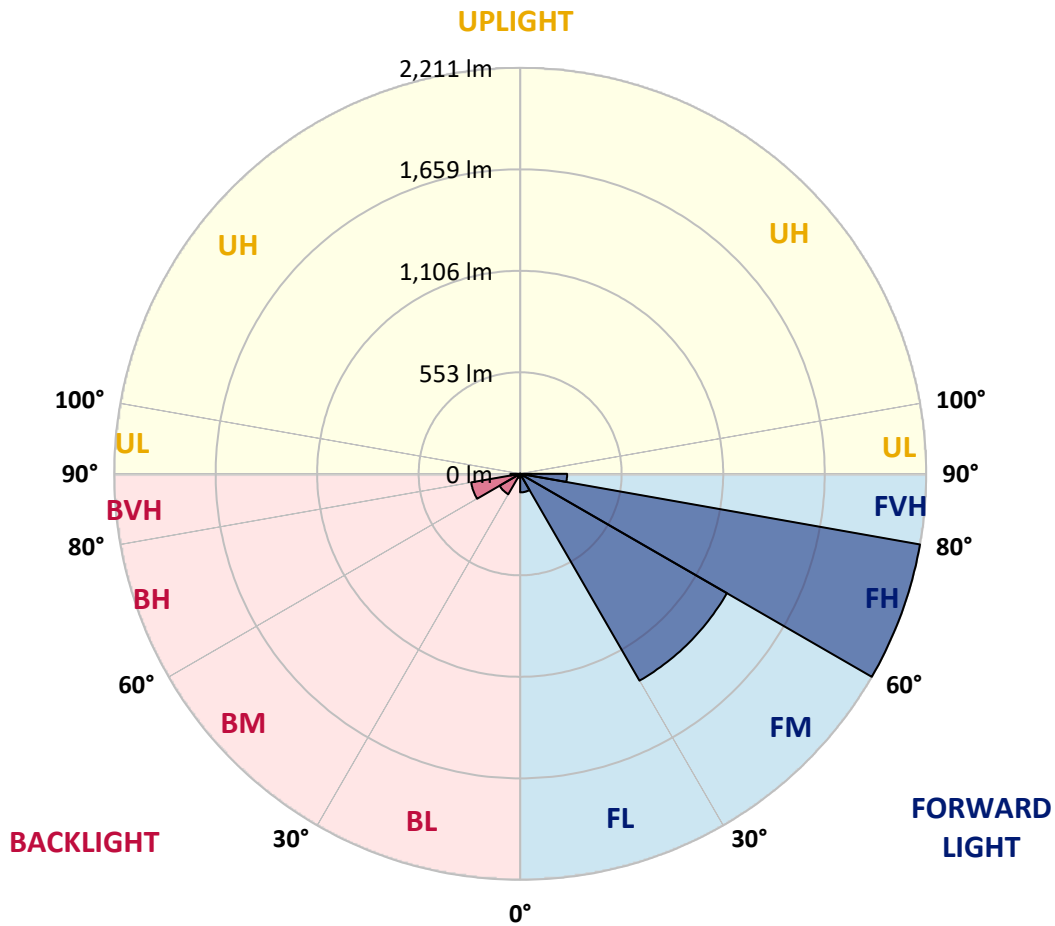
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	101.5	2.3			
FM (30°-60°)	1300.5	29.9			
FH (60°-80°)	2211.4	50.9			G2/5000
FVH (80°-90°)	255.5	5.9			G3/500
BL (0°-30°)	21.2	0.5	B0/110		
BM (30°-60°)	128.9	3.0	B0/220		
BH (60°-80°)	271.2	6.2	B1/500		G1/500
BVH (80°-90°)	52.9	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°	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
2.5°	72.7	71.6	69.2	66.9	65.7	64.5	63.4	62.2	61.0	57.5	55.1
5°	89.2	88.0	85.7	82.1	78.6	76.3	75.1	73.9	71.6	68.1	62.2
7.5°	100.9	100.9	100.9	98.6	95.0	90.3	86.8	84.5	82.1	77.4	71.6
10°	115.0	113.8	113.8	110.3	106.8	103.2	100.9	98.6	96.2	89.2	79.8
12.5°	125.5	124.4	123.2	119.7	118.5	115.0	113.8	109.1	106.8	98.6	86.8
15°	137.3	136.1	133.8	132.6	129.1	126.7	127.9	126.7	124.4	113.8	96.2
17.5°	150.2	149.0	147.8	147.8	147.8	145.5	144.3	142.0	139.6	123.2	102.1
20°	176.0	172.5	169.0	166.6	171.3	172.5	172.5	170.1	170.1	142.0	117.3
22.5°	224.1	220.6	218.2	200.6	207.7	240.5	251.1	239.4	241.7	186.6	129.1
25°	352.0	340.3	334.4	336.7	356.7	393.1	398.9	384.8	391.9	289.8	206.5
27.5°	411.8	414.2	459.9	506.9	512.7	531.5	563.2	533.8	518.6	370.8	258.1
30°	420.0	424.7	509.2	546.8	532.7	523.3	593.7	508.0	482.2	350.8	283.9
32.5°	387.2	408.3	498.7	513.9	481.1	429.4	481.1	409.5	401.3	305.1	269.9
35°	449.4	459.9	501.0	442.3	431.8	495.1	627.7	550.3	531.5	376.6	259.3
37.5°	544.4	540.9	619.5	665.3	648.8	584.3	653.5	594.9	579.6	474.0	370.8
40°	665.3	657.0	752.1	773.2	757.9	754.4	845.9	688.7	659.4	529.2	440.0
42.5°	699.3	701.6	762.6	814.3	802.5	801.4	938.6	776.7	732.1	535.0	483.4
45°	714.5	727.4	844.8	813.1	824.8	803.7	925.7	800.2	762.6	594.9	569.0
47.5°	620.7	627.7	789.6	790.8	641.8	646.5	755.6	666.4	639.4	465.8	490.4
50°	801.4	800.2	858.9	811.9	743.9	861.2	1081.8	1047.8	1027.8	699.3	544.4
52.5°	1159.2	1146.3	1235.5	1309.4	1295.3	1566.3	1894.9	1880.8	1809.2	1371.6	860.0
55°	1525.3	1519.4	1618.0	1878.4	2004.0	2258.6	2577.7	2488.6	2461.6	2020.4	1351.6
57.5°	1826.8	1828.0	1859.7	2083.8	2339.5	2832.3	3385.0	3489.4	3434.2	2608.2	1642.6
60°	2151.8	2126.0	2018.1	2177.6	2656.3	3228.9	4091.3	4378.7	4325.9	3209.0	1818.6
62.5°	2174.1	2148.3	1964.1	2126.0	2492.1	3018.9	3793.3	4026.7	4087.8	3372.0	1871.4
65°	2075.6	2043.9	1816.3	1937.1	2086.1	2405.3	3354.4	3261.8	3349.8	3321.6	1870.2
67.5°	1966.4	1940.6	1727.1	1828.0	1943.0	2156.5	3157.3	2926.2	3016.5	3124.5	1958.2
70°	1856.2	1819.8	1647.3	1756.4	1898.4	2042.7	2907.4	2690.4	2666.9	2647.0	1870.2
72.5°	1837.4	1809.2	1626.2	1702.5	1863.2	1970.0	2866.4	2699.8	2676.3	2553.1	1710.7
75°	1694.2	1691.9	1515.9	1587.5	1781.1	1847.9	2752.5	2624.7	2575.4	2417.0	1505.3
77.5°	1368.1	1350.5	1222.6	1297.7	1472.5	1565.2	2368.9	2285.6	2257.4	2109.6	1244.9
80°	919.9	904.6	849.5	892.9	1056.0	1136.9	1777.5	1770.5	1749.4	1652.0	919.9
82.5°	523.3	549.1	497.5	517.4	573.7	673.5	1105.2	1057.1	1041.9	972.7	522.1
85°	294.5	288.6	268.7	266.3	310.9	306.2	477.5	409.5	425.9	368.4	248.7
87.5°	212.4	217.1	195.9	195.9	217.1	214.7	300.4	282.8	280.4	262.8	178.3
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°	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
2.5°	54.0	52.8	49.3	45.8	39.9	34.0	30.5	32.9	34.0	35.2	35.2
5°	58.7	56.3	49.3	42.2	35.2	29.3	24.6	22.3	22.3	23.5	23.5
7.5°	69.2	65.7	56.3	48.1	38.7	32.9	27.0	23.5	21.1	21.1	21.1
10°	75.1	71.6	61.0	51.6	42.2	35.2	29.3	24.6	22.3	21.1	21.1
12.5°	81.0	76.3	65.7	55.1	44.6	36.4	30.5	25.8	24.6	24.6	24.6
15°	88.0	81.0	68.1	56.3	45.8	37.5	30.5	27.0	25.8	25.8	25.8
17.5°	95.0	88.0	72.7	57.5	46.9	37.5	31.7	27.0	25.8	27.0	27.0
20°	106.8	93.9	72.7	58.7	46.9	37.5	31.7	27.0	27.0	27.0	27.0
22.5°	112.6	102.1	77.4	59.8	48.1	38.7	31.7	27.0	27.0	27.0	27.0
25°	173.6	129.1	81.0	62.2	49.3	39.9	31.7	28.2	27.0	28.2	28.2
27.5°	218.2	181.9	92.7	65.7	50.5	41.1	32.9	28.2	28.2	29.3	29.3
30°	242.9	207.7	100.9	71.6	54.0	42.2	34.0	29.3	29.3	29.3	29.3
32.5°	231.1	187.7	102.1	78.6	59.8	44.6	35.2	30.5	30.5	30.5	30.5
35°	200.6	154.9	99.7	79.8	63.4	49.3	37.5	31.7	31.7	30.5	30.5
37.5°	280.4	194.8	103.2	79.8	65.7	52.8	41.1	34.0	32.9	31.7	31.7
40°	332.0	217.1	113.8	85.7	65.7	54.0	43.4	37.5	35.2	34.0	32.9
42.5°	368.4	238.2	122.0	93.9	72.7	56.3	44.6	41.1	37.5	35.2	35.2
45°	421.2	252.3	132.6	103.2	79.8	62.2	48.1	42.2	41.1	38.7	37.5
47.5°	384.8	257.0	143.1	113.8	88.0	68.1	52.8	45.8	44.6	42.2	41.1
50°	395.4	249.9	146.7	120.8	96.2	72.7	57.5	50.5	48.1	45.8	45.8
52.5°	539.7	330.9	160.7	124.4	99.7	79.8	62.2	55.1	52.8	50.5	50.5
55°	881.1	506.9	198.3	137.3	103.2	82.1	66.9	61.0	57.5	55.1	54.0
57.5°	1151.0	715.7	251.1	167.8	123.2	86.8	69.2	66.9	64.5	59.8	58.7
60°	1396.2	907.0	295.7	201.8	154.9	112.6	79.8	73.9	72.7	65.7	63.4
62.5°	1595.7	1065.4	332.0	220.6	177.2	145.5	109.1	91.5	82.1	73.9	71.6
65°	1668.4	1118.1	346.1	224.1	183.0	161.9	137.3	124.4	97.4	84.5	82.1
67.5°	1696.6	1106.4	353.2	217.1	178.3	161.9	144.3	145.5	118.5	93.9	90.3
70°	1641.4	1060.7	349.6	210.0	171.3	157.2	140.8	136.1	123.2	100.9	96.2
72.5°	1517.1	1018.4	348.5	208.8	169.0	151.4	130.2	116.2	105.6	99.7	97.4
75°	1392.7	990.3	343.8	207.7	165.4	143.1	118.5	100.9	86.8	88.0	90.3
77.5°	1182.7	874.1	318.0	192.4	149.0	124.4	102.1	89.2	78.6	77.4	77.4
80°	894.1	648.8	260.5	160.7	122.0	100.9	84.5	79.8	73.9	71.6	70.4
82.5°	495.1	341.4	167.8	119.7	96.2	78.6	71.6	71.6	68.1	64.5	64.5
85°	226.4	191.2	124.4	99.7	82.1	68.1	62.2	62.2	58.7	55.1	54.0
87.5°	176.0	151.4	105.6	92.7	79.8	66.9	59.8	59.8	56.3	54.0	54.0
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)