

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: P588563

Luminaire Tested: **ARC-CA6-100-722-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588563  
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-CA6-100-722-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**

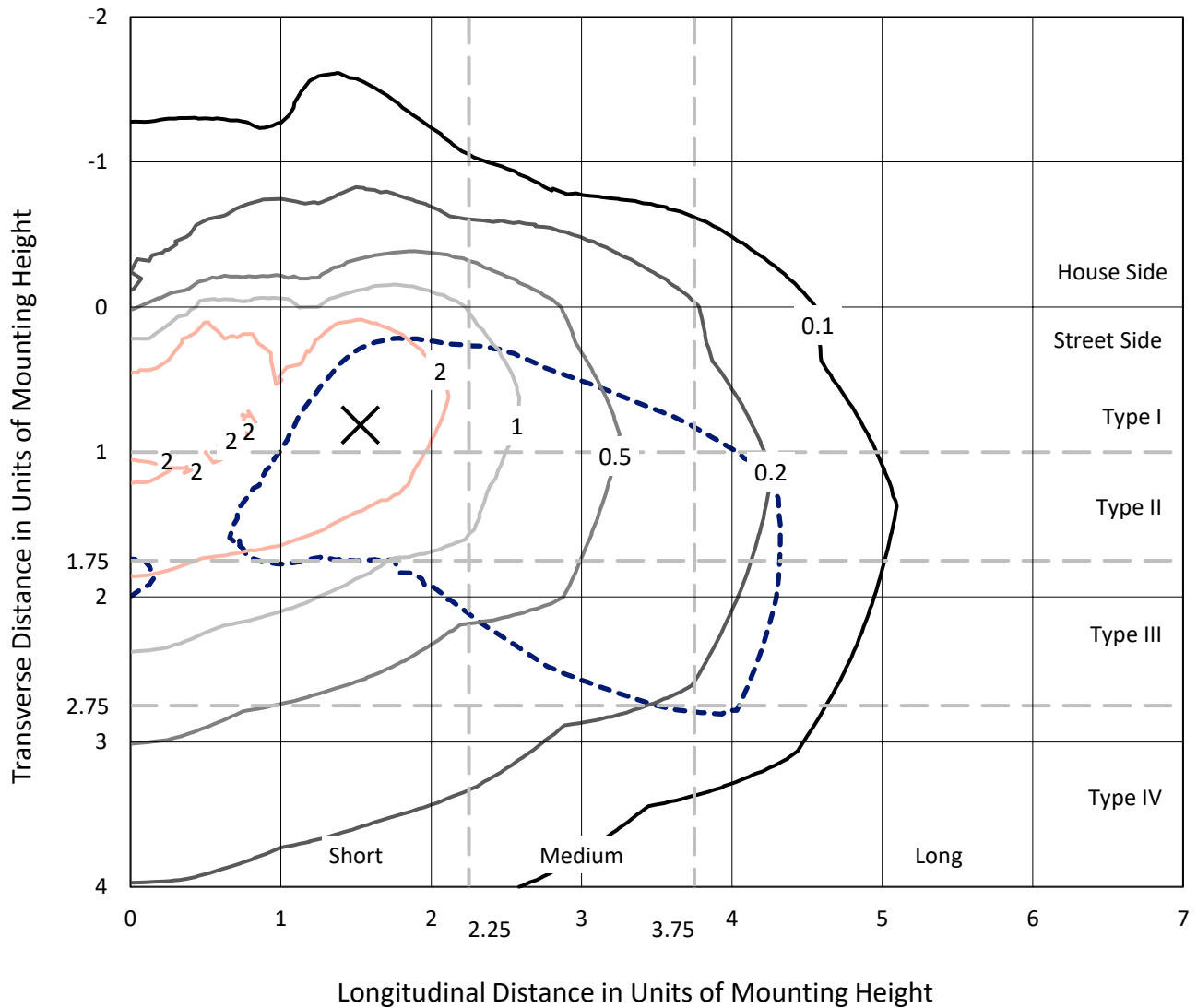
Lumens per Lamp: N/A  
Luminaire Lumens: 3766 lumens  
Efficiency: N/A  
Efficacy: 72.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 0.92')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 52.2  
Input Voltage (V): 120  
Input 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

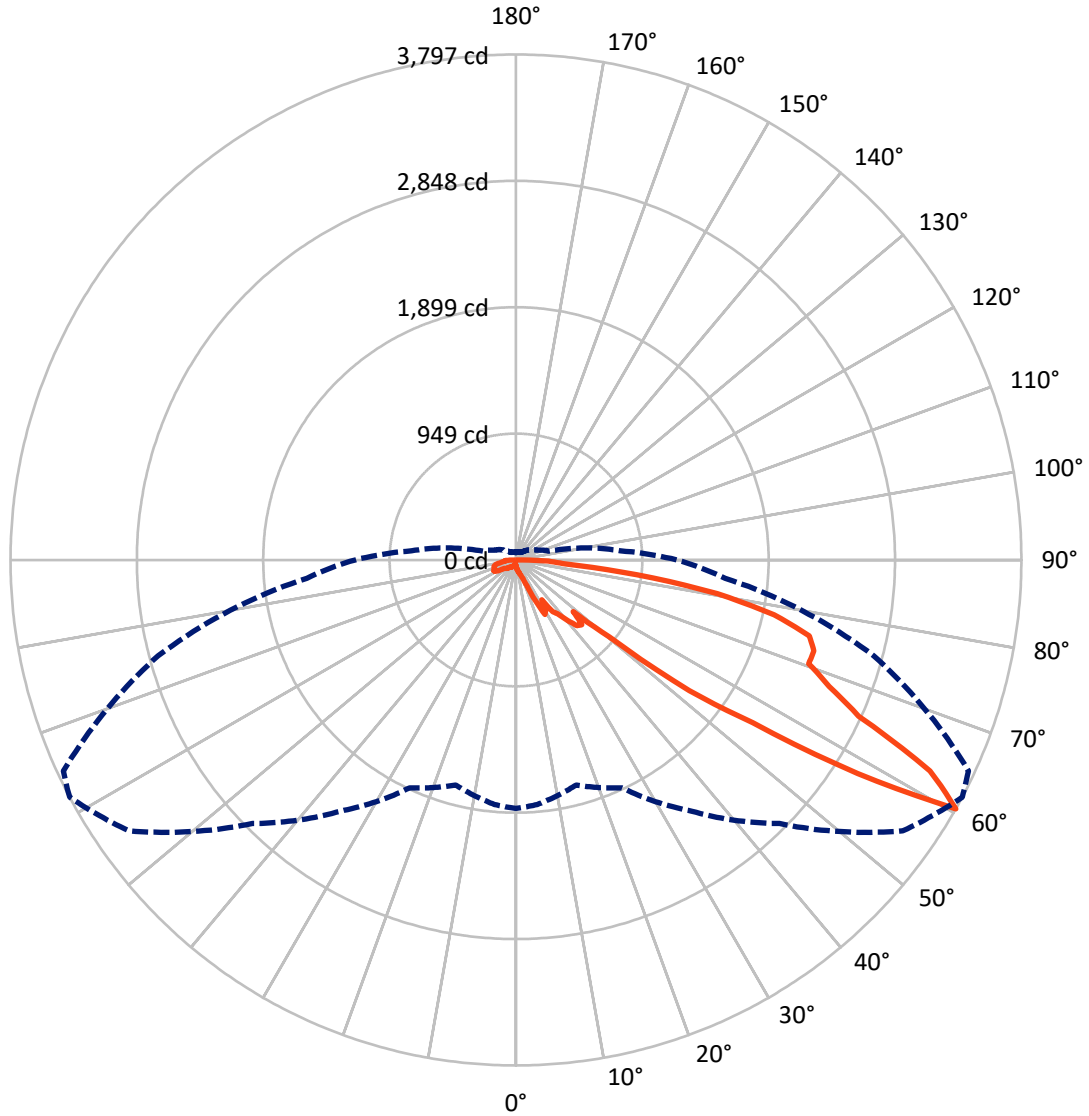
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 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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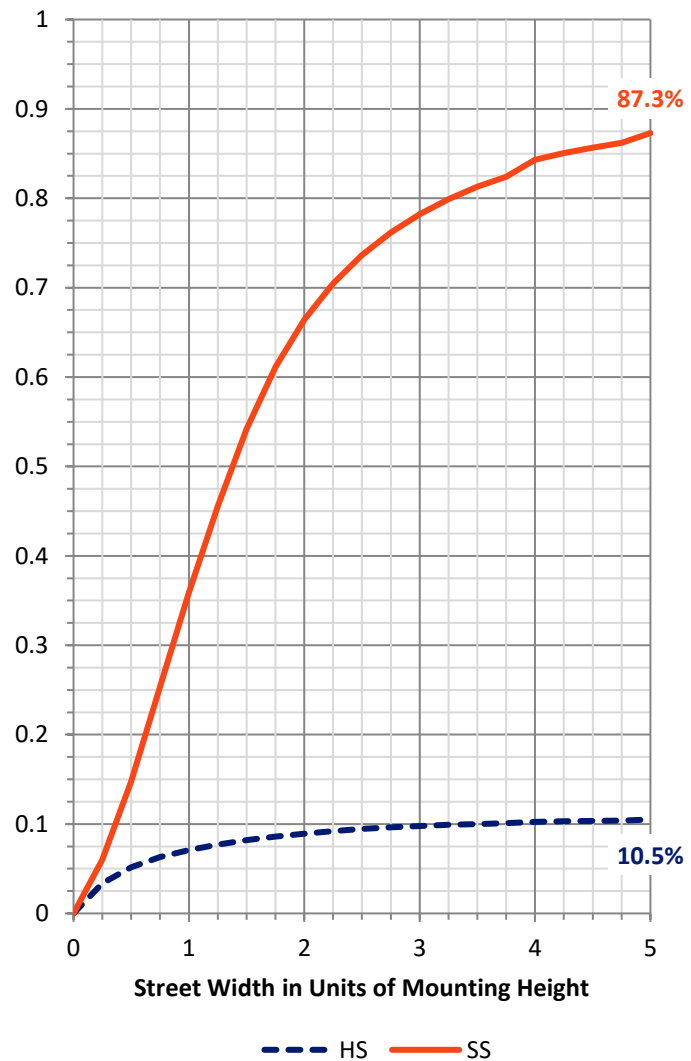
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	411.1	0.0	411.1
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	3354.9	0.0	3354.9
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	3766.0	0.0	3766.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.1	0.1
10°-20°	21.4	0.6
20°-30°	79.9	2.1
30°-40°	157.8	4.2
40°-50°	273.1	7.3
50°-60°	808.6	21.5
60°-70°	1194.6	31.7
70°-80°	958.2	25.4
80°-90°	267.4	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°	3766.0	100.0
0°-180°	3766.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P588563

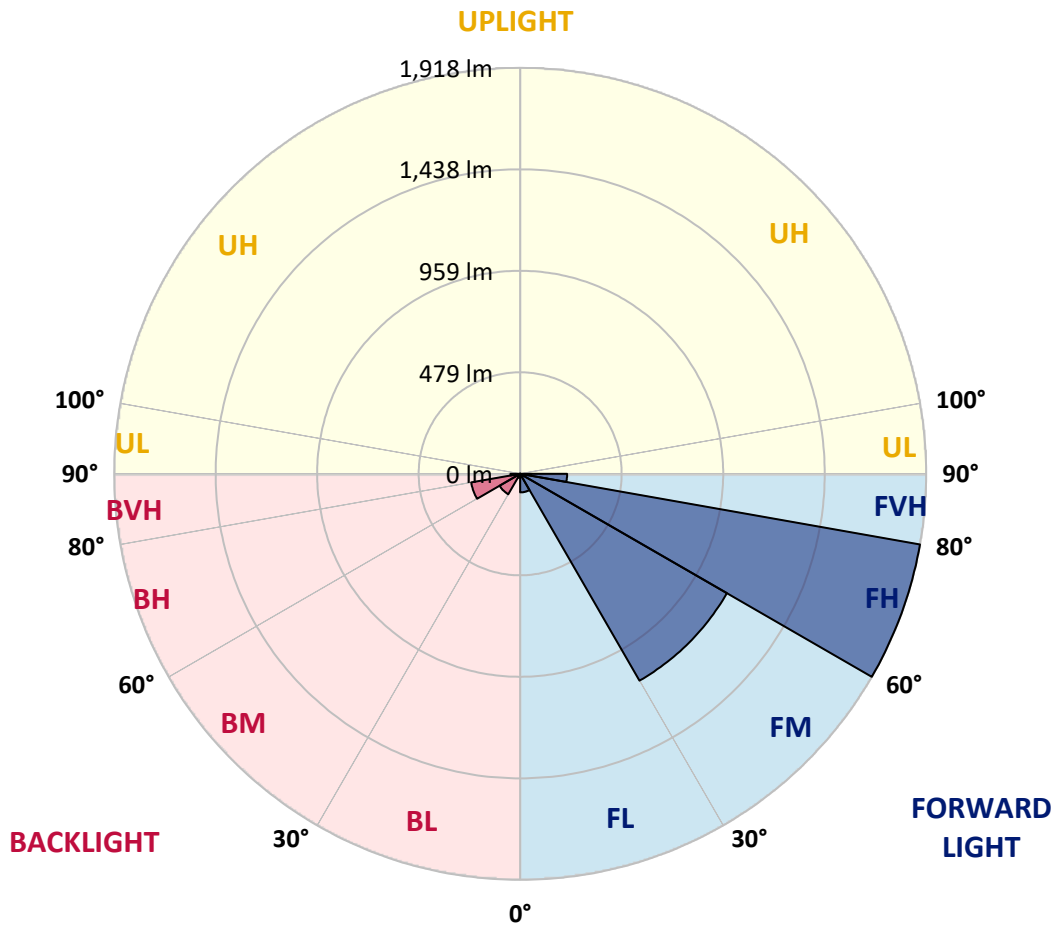
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	88.0	2.3			
FM (30°-60°)	1127.8	29.9			
FH (60°-80°)	1917.6	50.9			G2/5000
FVH (80°-90°)	221.5	5.9			G2/225
BL (0°-30°)	18.4	0.5	B0/110		
BM (30°-60°)	111.8	3.0	B0/220		
BH (60°-80°)	235.2	6.2	B1/500		G1/500
BVH (80°-90°)	45.8	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-G2**

Type III Short





REPORT NUMBER: P588563

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
2.5°	63.1	62.1	60.0	58.0	57.0	56.0	54.9	53.9	52.9	49.9	47.8
5°	77.3	76.3	74.3	71.2	68.2	66.1	65.1	64.1	62.1	59.0	53.9
7.5°	87.5	87.5	87.5	85.5	82.4	78.3	75.3	73.3	71.2	67.1	62.1
10°	99.7	98.7	98.7	95.6	92.6	89.5	87.5	85.5	83.4	77.3	69.2
12.5°	108.9	107.8	106.8	103.8	102.8	99.7	98.7	94.6	92.6	85.5	75.3
15°	119.0	118.0	116.0	115.0	111.9	109.9	110.9	109.9	107.8	98.7	83.4
17.5°	130.2	129.2	128.2	128.2	128.2	126.2	125.1	123.1	121.1	106.8	88.5
20°	152.6	149.6	146.5	144.5	148.5	149.6	149.6	147.5	147.5	123.1	101.7
22.5°	194.3	191.3	189.2	174.0	180.1	208.6	217.7	207.6	209.6	161.8	111.9
25°	305.2	295.0	290.0	292.0	309.3	340.8	345.9	333.7	339.8	251.3	179.1
27.5°	357.1	359.1	398.8	439.5	444.6	460.9	488.4	462.9	449.7	321.5	223.8
30°	364.2	368.3	441.6	474.1	461.9	453.8	514.8	440.5	418.2	304.2	246.2
32.5°	335.7	354.1	432.4	445.6	417.1	372.4	417.1	355.1	348.0	264.5	234.0
35°	389.7	398.8	434.4	383.6	374.4	429.3	544.3	477.2	460.9	326.6	224.8
37.5°	472.1	469.0	537.2	576.9	562.6	506.7	566.7	515.8	502.6	411.0	321.5
40°	576.9	569.8	652.2	670.5	657.2	654.2	733.6	597.2	571.8	458.9	381.5
42.5°	606.4	608.4	661.3	706.1	695.9	694.9	813.9	673.5	634.9	463.9	419.2
45°	619.6	630.8	732.5	705.1	715.2	696.9	802.7	693.9	661.3	515.8	493.4
47.5°	538.2	544.3	684.7	685.7	556.5	560.6	655.2	577.9	554.5	403.9	425.3
50°	694.9	693.9	744.7	704.1	645.0	746.8	938.1	908.6	891.3	606.4	472.1
52.5°	1005.2	994.0	1071.3	1135.4	1123.2	1358.2	1643.1	1630.9	1568.9	1189.4	745.8
55°	1322.6	1317.6	1403.0	1628.9	1737.7	1958.5	2235.3	2157.9	2134.5	1752.0	1172.1
57.5°	1584.1	1585.1	1612.6	1806.9	2028.7	2456.0	2935.2	3025.8	2978.0	2261.7	1424.4
60°	1865.9	1843.6	1750.0	1888.3	2303.4	2799.9	3547.7	3797.0	3751.2	2782.6	1577.0
62.5°	1885.3	1862.9	1703.2	1843.6	2161.0	2617.8	3289.3	3491.8	3544.7	2924.0	1622.8
65°	1799.8	1772.3	1575.0	1679.7	1809.0	2085.7	2908.8	2828.4	2904.7	2880.3	1621.8
67.5°	1705.2	1682.8	1497.6	1585.1	1684.8	1870.0	2737.9	2537.4	2615.8	2709.4	1698.1
70°	1609.5	1578.0	1428.4	1523.1	1646.2	1771.3	2521.2	2332.9	2312.6	2295.3	1621.8
72.5°	1593.3	1568.9	1410.1	1476.3	1615.7	1708.2	2485.5	2341.1	2320.7	2213.9	1483.4
75°	1469.1	1467.1	1314.5	1376.6	1544.4	1602.4	2386.9	2276.0	2233.2	2095.9	1305.3
77.5°	1186.3	1171.0	1060.1	1125.3	1276.9	1357.2	2054.2	1981.9	1957.5	1829.3	1079.5
80°	797.7	784.4	736.6	774.3	915.7	985.9	1541.4	1535.3	1517.0	1432.5	797.7
82.5°	453.8	476.1	431.4	448.7	497.5	584.0	958.4	916.7	903.5	843.4	452.7
85°	255.4	250.3	233.0	231.0	269.6	265.5	414.1	355.1	369.3	319.5	215.7
87.5°	184.2	188.2	169.9	169.9	188.2	186.2	260.5	245.2	243.2	227.9	154.6
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°	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
2.5°	46.8	45.8	42.7	39.7	34.6	29.5	26.5	28.5	29.5	30.5	30.5
5°	50.9	48.8	42.7	36.6	30.5	25.4	21.4	19.3	19.3	20.3	20.3
7.5°	60.0	57.0	48.8	41.7	33.6	28.5	23.4	20.3	18.3	18.3	18.3
10°	65.1	62.1	52.9	44.8	36.6	30.5	25.4	21.4	19.3	18.3	18.3
12.5°	70.2	66.1	57.0	47.8	38.7	31.5	26.5	22.4	21.4	21.4	21.4
15°	76.3	70.2	59.0	48.8	39.7	32.6	26.5	23.4	22.4	22.4	22.4
17.5°	82.4	76.3	63.1	49.9	40.7	32.6	27.5	23.4	22.4	23.4	23.4
20°	92.6	81.4	63.1	50.9	40.7	32.6	27.5	23.4	23.4	23.4	23.4
22.5°	97.7	88.5	67.1	51.9	41.7	33.6	27.5	23.4	23.4	23.4	23.4
25°	150.6	111.9	70.2	53.9	42.7	34.6	27.5	24.4	23.4	24.4	24.4
27.5°	189.2	157.7	80.4	57.0	43.7	35.6	28.5	24.4	24.4	25.4	25.4
30°	210.6	180.1	87.5	62.1	46.8	36.6	29.5	25.4	25.4	25.4	25.4
32.5°	200.4	162.8	88.5	68.2	51.9	38.7	30.5	26.5	26.5	26.5	26.5
35°	174.0	134.3	86.5	69.2	54.9	42.7	32.6	27.5	27.5	26.5	26.5
37.5°	243.2	168.9	89.5	69.2	57.0	45.8	35.6	29.5	28.5	27.5	27.5
40°	287.9	188.2	98.7	74.3	57.0	46.8	37.6	32.6	30.5	29.5	28.5
42.5°	319.5	206.5	105.8	81.4	63.1	48.8	38.7	35.6	32.6	30.5	30.5
45°	365.3	218.7	115.0	89.5	69.2	53.9	41.7	36.6	35.6	33.6	32.6
47.5°	333.7	222.8	124.1	98.7	76.3	59.0	45.8	39.7	38.7	36.6	35.6
50°	342.9	216.7	127.2	104.8	83.4	63.1	49.9	43.7	41.7	39.7	39.7
52.5°	468.0	286.9	139.4	107.8	86.5	69.2	53.9	47.8	45.8	43.7	43.7
55°	764.1	439.5	171.9	119.0	89.5	71.2	58.0	52.9	49.9	47.8	46.8
57.5°	998.1	620.6	217.7	145.5	106.8	75.3	60.0	58.0	56.0	51.9	50.9
60°	1210.7	786.5	256.4	175.0	134.3	97.7	69.2	64.1	63.1	57.0	54.9
62.5°	1383.7	923.8	287.9	191.3	153.6	126.2	94.6	79.4	71.2	64.1	62.1
65°	1446.8	969.6	300.1	194.3	158.7	140.4	119.0	107.8	84.4	73.3	71.2
67.5°	1471.2	959.4	306.2	188.2	154.6	140.4	125.1	126.2	102.8	81.4	78.3
70°	1423.4	919.7	303.2	182.1	148.5	136.3	122.1	118.0	106.8	87.5	83.4
72.5°	1315.5	883.1	302.2	181.1	146.5	131.2	112.9	100.7	91.6	86.5	84.4
75°	1207.7	858.7	298.1	180.1	143.5	124.1	102.8	87.5	75.3	76.3	78.3
77.5°	1025.6	758.0	275.7	166.9	129.2	107.8	88.5	77.3	68.2	67.1	67.1
80°	775.3	562.6	225.9	139.4	105.8	87.5	73.3	69.2	64.1	62.1	61.0
82.5°	429.3	296.1	145.5	103.8	83.4	68.2	62.1	62.1	59.0	56.0	56.0
85°	196.4	165.8	107.8	86.5	71.2	59.0	53.9	53.9	50.9	47.8	46.8
87.5°	152.6	131.2	91.6	80.4	69.2	58.0	51.9	51.9	48.8	46.8	46.8
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)