

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: P588585

Luminaire Tested: **ARC-CA6-110-760-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588585
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-CA6-110-760-U-33-6-5-X-GHSS
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD
Light Source: (3) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4739 lumens
Efficiency: N/A
Efficacy: 83.9 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

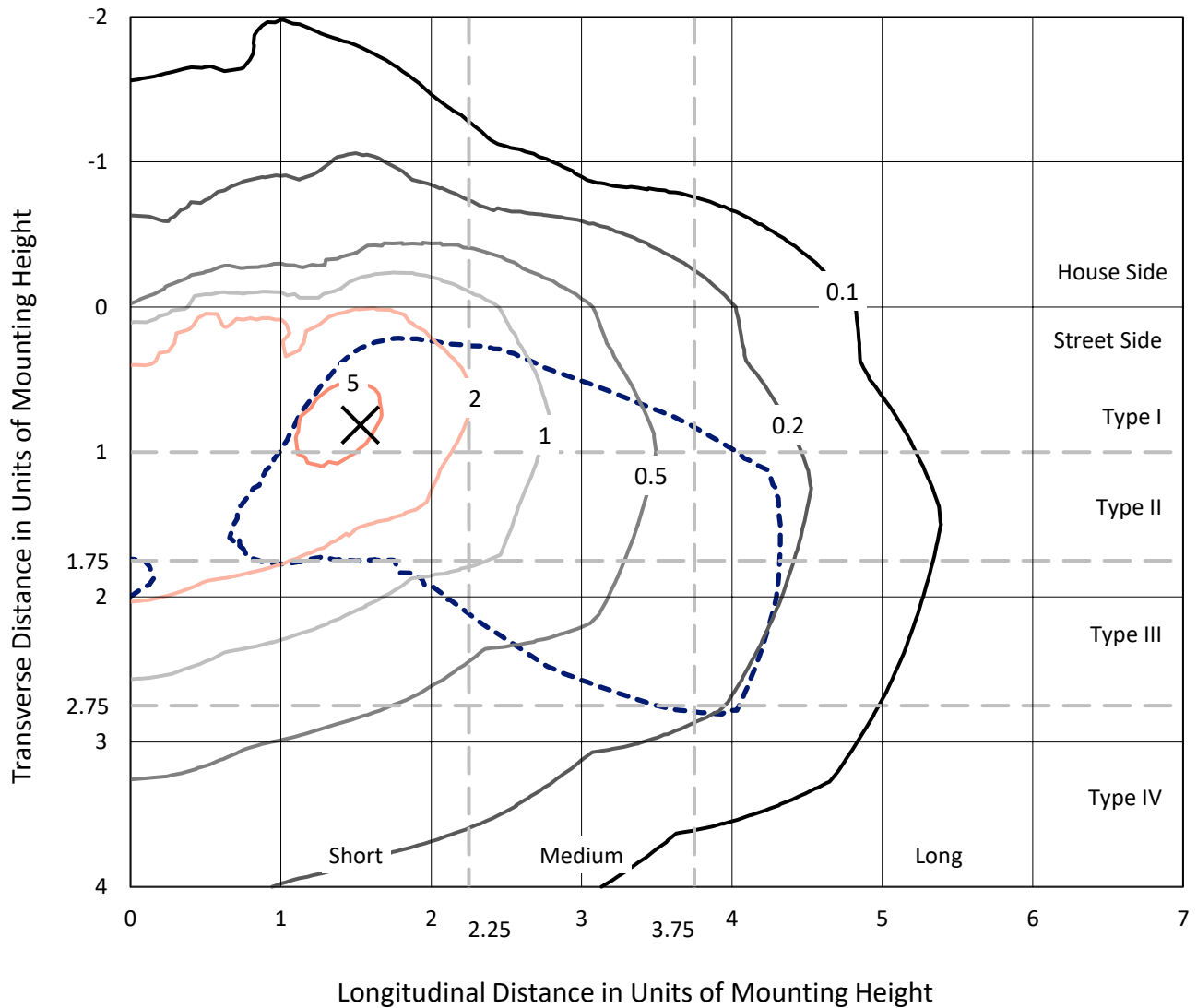
Input Watts (W): 56.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

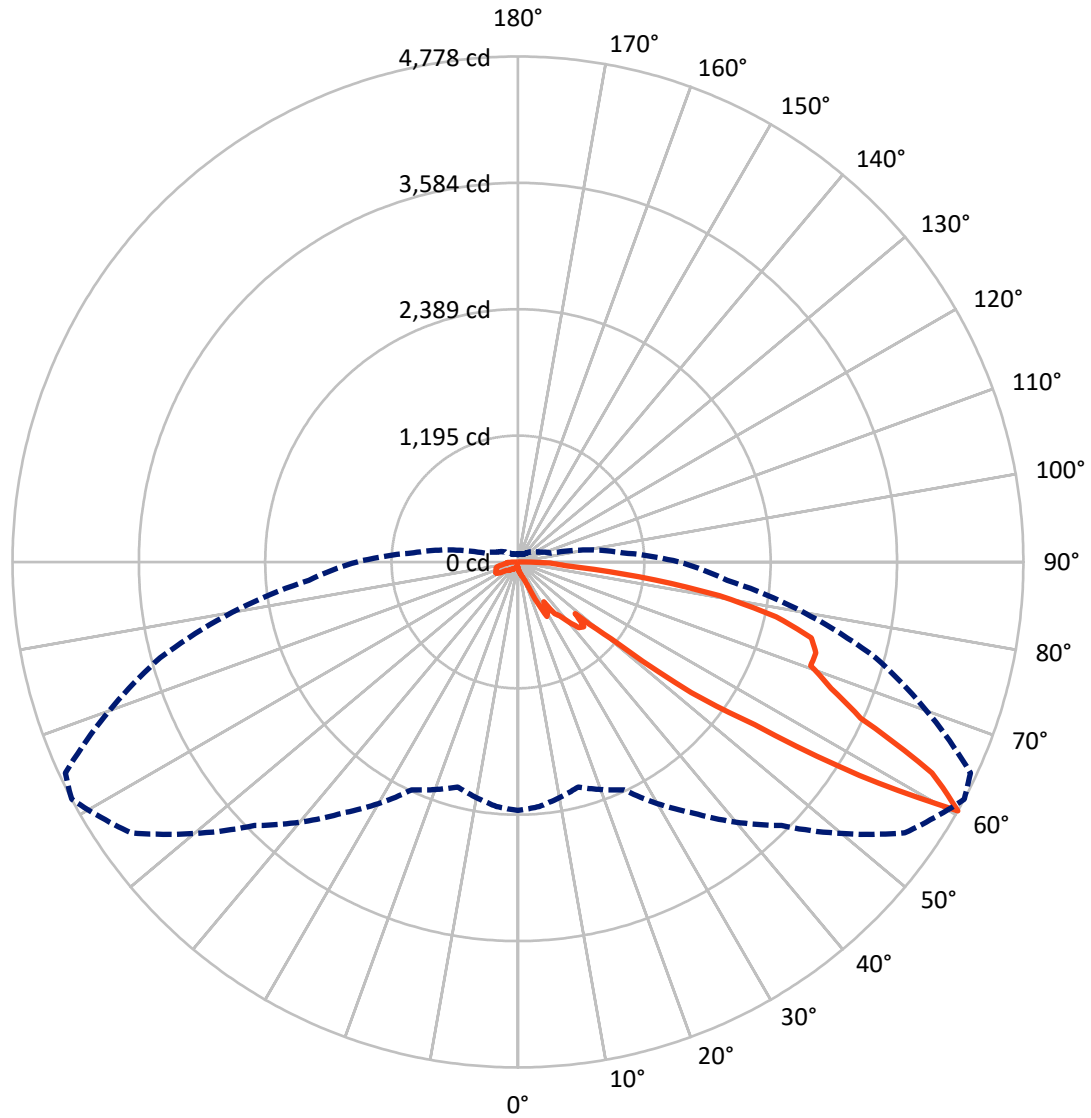
✕ Max cd
 - - - 1/2 Max cd



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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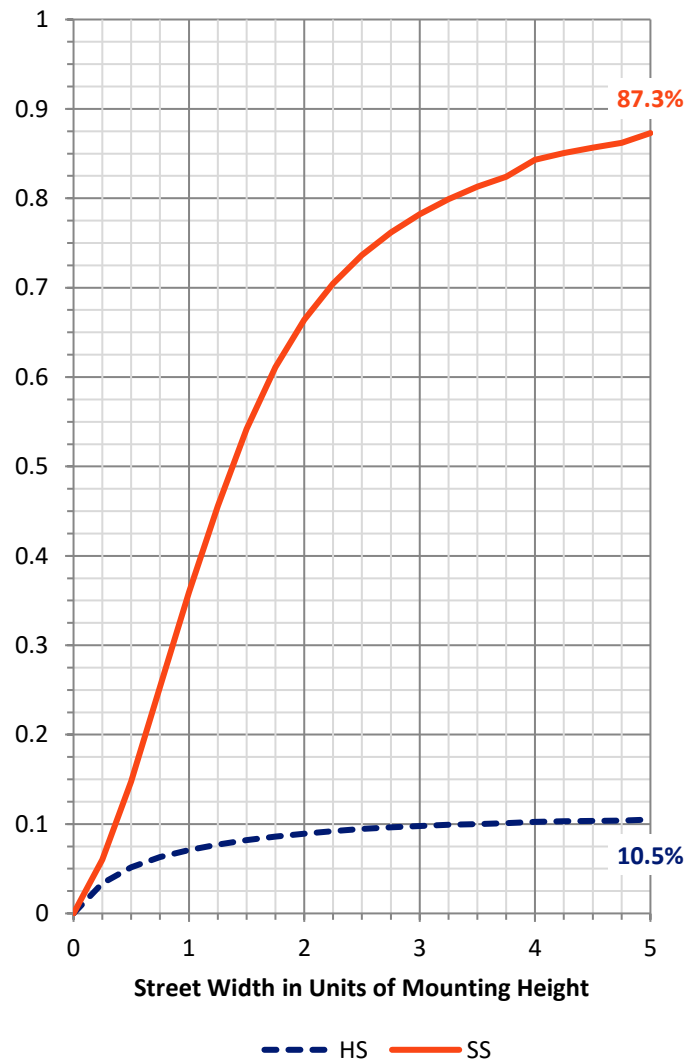
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	517.3	0.0	517.3
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	4221.7	0.0	4221.7
	% Fixture	89.1	0.0	89.1
Total	Lumens	4739.0	0.0	4739.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.4	0.1
10°-20°	26.9	0.6
20°-30°	100.5	2.1
30°-40°	198.6	4.2
40°-50°	343.6	7.3
50°-60°	1017.5	21.5
60°-70°	1503.3	31.7
70°-80°	1205.7	25.4
80°-90°	336.5	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°	4739.0	100.0
0°-180°	4739.0	100.0

Coefficient of Utilization



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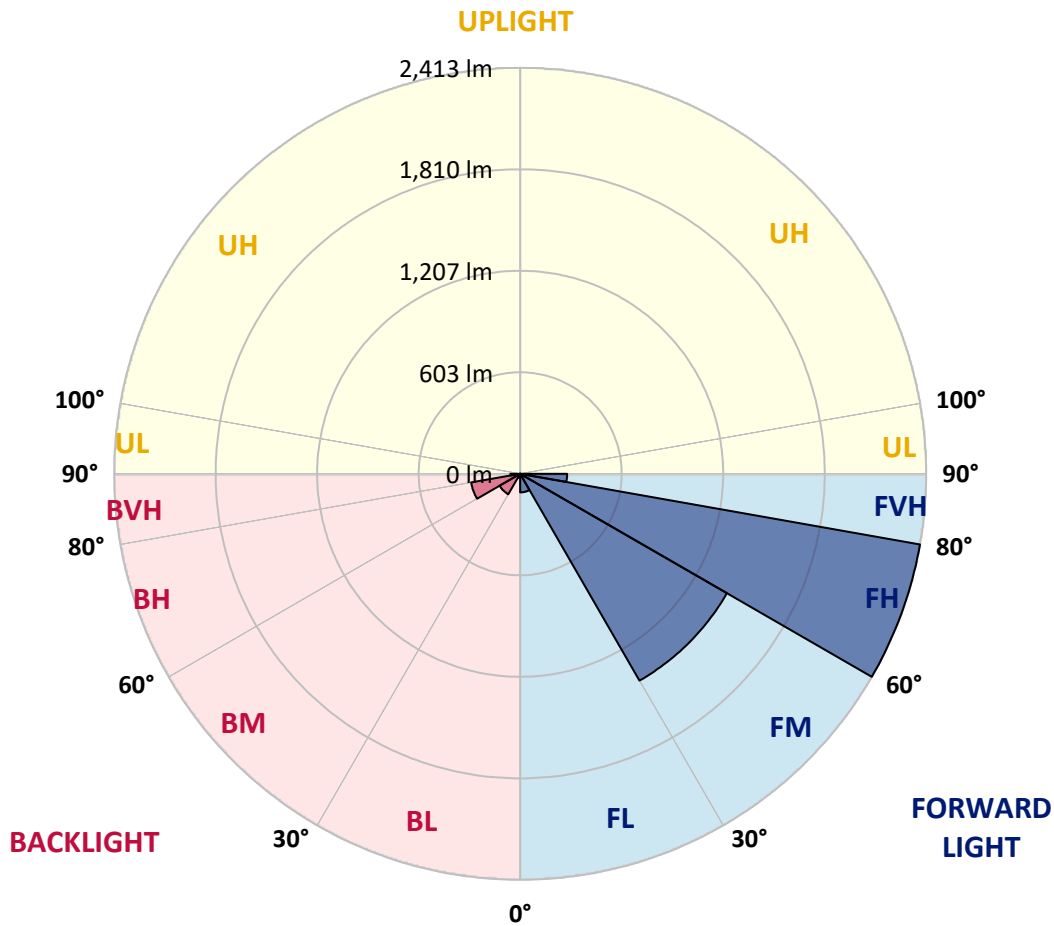
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	110.7	2.3			
FM (30°-60°)	1419.1	29.9			
FH (60°-80°)	2413.1	50.9			G2/5000
FVH (80°-90°)	278.8	5.9			G3/500
BL (0°-30°)	23.1	0.5	B0/110		
BM (30°-60°)	140.6	3.0	B0/220		
BH (60°-80°)	295.9	6.2	B1/500		G1/500
BVH (80°-90°)	57.7	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°	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
2.5°	79.4	78.1	75.5	73.0	71.7	70.4	69.1	67.9	66.6	62.7	60.2
5°	97.3	96.0	93.5	89.6	85.8	83.2	81.9	80.7	78.1	74.3	67.9
7.5°	110.1	110.1	110.1	107.5	103.7	98.6	94.7	92.2	89.6	84.5	78.1
10°	125.5	124.2	124.2	120.3	116.5	112.7	110.1	107.5	105.0	97.3	87.1
12.5°	137.0	135.7	134.4	130.6	129.3	125.5	124.2	119.1	116.5	107.5	94.7
15°	149.8	148.5	146.0	144.7	140.8	138.3	139.6	138.3	135.7	124.2	105.0
17.5°	163.9	162.6	161.3	161.3	161.3	158.8	157.5	154.9	152.4	134.4	111.4
20°	192.0	188.2	184.4	181.8	186.9	188.2	188.2	185.6	185.6	154.9	128.0
22.5°	244.5	240.7	238.1	218.9	226.6	262.5	274.0	261.2	263.7	203.6	140.8
25°	384.1	371.3	364.9	367.4	389.2	428.9	435.3	419.9	427.6	316.2	225.3
27.5°	449.4	451.9	501.9	553.1	559.5	580.0	614.5	582.5	565.9	404.6	281.7
30°	458.3	463.5	555.6	596.6	581.2	571.0	647.8	554.4	526.2	382.8	309.8
32.5°	422.5	445.5	544.1	560.8	524.9	468.6	524.9	446.8	437.9	332.9	294.5
35°	490.3	501.9	546.7	482.7	471.1	540.3	684.9	600.4	580.0	411.0	282.9
37.5°	594.0	590.2	676.0	725.9	708.0	637.6	713.1	649.1	632.5	517.2	404.6
40°	725.9	717.0	820.7	843.7	827.1	823.2	923.1	751.5	719.5	577.4	480.1
42.5°	763.0	765.6	832.2	888.5	875.7	874.4	1024.2	847.5	798.9	583.8	527.5
45°	779.7	793.8	921.8	887.2	900.0	877.0	1010.1	873.1	832.2	649.1	620.9
47.5°	677.3	684.9	861.6	862.9	700.3	705.4	824.5	727.2	697.8	508.3	535.2
50°	874.4	873.1	937.2	886.0	811.7	939.7	1180.4	1143.3	1121.5	763.0	594.0
52.5°	1264.9	1250.8	1348.1	1428.8	1413.4	1709.2	2067.6	2052.3	1974.2	1496.6	938.4
55°	1664.4	1658.0	1765.5	2049.7	2186.7	2464.5	2812.8	2715.5	2686.0	2204.6	1474.9
57.5°	1993.4	1994.7	2029.2	2273.8	2552.9	3090.6	3693.6	3807.5	3747.4	2846.1	1792.4
60°	2348.0	2319.9	2202.1	2376.2	2898.5	3523.3	4464.3	4778.0	4720.4	3501.6	1984.4
62.5°	2372.4	2344.2	2143.2	2319.9	2719.3	3294.2	4139.1	4393.9	4460.5	3679.5	2042.0
65°	2264.8	2230.2	1981.9	2113.7	2276.3	2624.6	3660.3	3559.2	3655.2	3624.5	2040.8
67.5°	2145.7	2117.6	1884.6	1994.7	2120.1	2353.1	3445.2	3193.0	3291.6	3409.4	2136.8
70°	2025.4	1985.7	1797.5	1916.6	2071.5	2229.0	3172.5	2935.7	2910.1	2888.3	2040.8
72.5°	2004.9	1974.2	1774.5	1857.7	2033.1	2149.6	3127.7	2945.9	2920.3	2785.9	1866.6
75°	1848.7	1846.2	1654.1	1732.2	1943.5	2016.4	3003.5	2864.0	2810.2	2637.4	1642.6
77.5°	1492.8	1473.6	1334.0	1416.0	1606.7	1707.9	2584.9	2494.0	2463.3	2301.9	1358.4
80°	1003.7	987.1	926.9	974.3	1152.2	1240.6	1939.6	1931.9	1908.9	1802.6	1003.7
82.5°	571.0	599.2	542.8	564.6	626.1	734.9	1206.0	1153.5	1136.9	1061.3	569.7
85°	321.3	314.9	293.2	290.6	339.3	334.2	521.1	446.8	464.7	402.0	271.4
87.5°	231.7	236.9	213.8	213.8	236.9	234.3	327.8	308.5	306.0	286.8	194.6
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°	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
2.5°	58.9	57.6	53.8	49.9	43.5	37.1	33.3	35.8	37.1	38.4	38.4
5°	64.0	61.5	53.8	46.1	38.4	32.0	26.9	24.3	24.3	25.6	25.6
7.5°	75.5	71.7	61.5	52.5	42.2	35.8	29.4	25.6	23.0	23.0	23.0
10°	81.9	78.1	66.6	56.3	46.1	38.4	32.0	26.9	24.3	23.0	23.0
12.5°	88.3	83.2	71.7	60.2	48.7	39.7	33.3	28.2	26.9	26.9	26.9
15°	96.0	88.3	74.3	61.5	49.9	41.0	33.3	29.4	28.2	28.2	28.2
17.5°	103.7	96.0	79.4	62.7	51.2	41.0	34.6	29.4	28.2	29.4	29.4
20°	116.5	102.4	79.4	64.0	51.2	41.0	34.6	29.4	29.4	29.4	29.4
22.5°	122.9	111.4	84.5	65.3	52.5	42.2	34.6	29.4	29.4	29.4	29.4
25°	189.5	140.8	88.3	67.9	53.8	43.5	34.6	30.7	29.4	30.7	30.7
27.5°	238.1	198.4	101.1	71.7	55.1	44.8	35.8	30.7	30.7	32.0	32.0
30°	265.0	226.6	110.1	78.1	58.9	46.1	37.1	32.0	32.0	32.0	32.0
32.5°	252.2	204.8	111.4	85.8	65.3	48.7	38.4	33.3	33.3	33.3	33.3
35°	218.9	169.0	108.8	87.1	69.1	53.8	41.0	34.6	34.6	33.3	33.3
37.5°	306.0	212.5	112.7	87.1	71.7	57.6	44.8	37.1	35.8	34.6	34.6
40°	362.3	236.9	124.2	93.5	71.7	58.9	47.4	41.0	38.4	37.1	35.8
42.5°	402.0	259.9	133.1	102.4	79.4	61.5	48.7	44.8	41.0	38.4	38.4
45°	459.6	275.3	144.7	112.7	87.1	67.9	52.5	46.1	44.8	42.2	41.0
47.5°	419.9	280.4	156.2	124.2	96.0	74.3	57.6	49.9	48.7	46.1	44.8
50°	431.5	272.7	160.0	131.9	105.0	79.4	62.7	55.1	52.5	49.9	49.9
52.5°	588.9	361.0	175.4	135.7	108.8	87.1	67.9	60.2	57.6	55.1	55.1
55°	961.5	553.1	216.4	149.8	112.7	89.6	73.0	66.6	62.7	60.2	58.9
57.5°	1256.0	781.0	274.0	183.1	134.4	94.7	75.5	73.0	70.4	65.3	64.0
60°	1523.5	989.7	322.6	220.2	169.0	122.9	87.1	80.7	79.4	71.7	69.1
62.5°	1741.2	1162.5	362.3	240.7	193.3	158.8	119.1	99.9	89.6	80.7	78.1
65°	1820.6	1220.1	377.7	244.5	199.7	176.7	149.8	135.7	106.3	92.2	89.6
67.5°	1851.3	1207.3	385.4	236.9	194.6	176.7	157.5	158.8	129.3	102.4	98.6
70°	1791.1	1157.4	381.5	229.2	186.9	171.6	153.6	148.5	134.4	110.1	105.0
72.5°	1655.4	1111.3	380.2	227.9	184.4	165.2	142.1	126.7	115.2	108.8	106.3
75°	1519.7	1080.6	375.1	226.6	180.5	156.2	129.3	110.1	94.7	96.0	98.6
77.5°	1290.5	953.8	347.0	210.0	162.6	135.7	111.4	97.3	85.8	84.5	84.5
80°	975.6	708.0	284.2	175.4	133.1	110.1	92.2	87.1	80.7	78.1	76.8
82.5°	540.3	372.6	183.1	130.6	105.0	85.8	78.1	78.1	74.3	70.4	70.4
85°	247.1	208.7	135.7	108.8	89.6	74.3	67.9	67.9	64.0	60.2	58.9
87.5°	192.0	165.2	115.2	101.1	87.1	73.0	65.3	65.3	61.5	58.9	58.9
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)