

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: P588619

Luminaire Tested: **ARC-CA6-80-750-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588619
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-CA6-80-750-U-33-6-5-X-GHSS
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD
Light Source: (3) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3770 lumens
Efficiency: N/A
Efficacy: 89.1 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

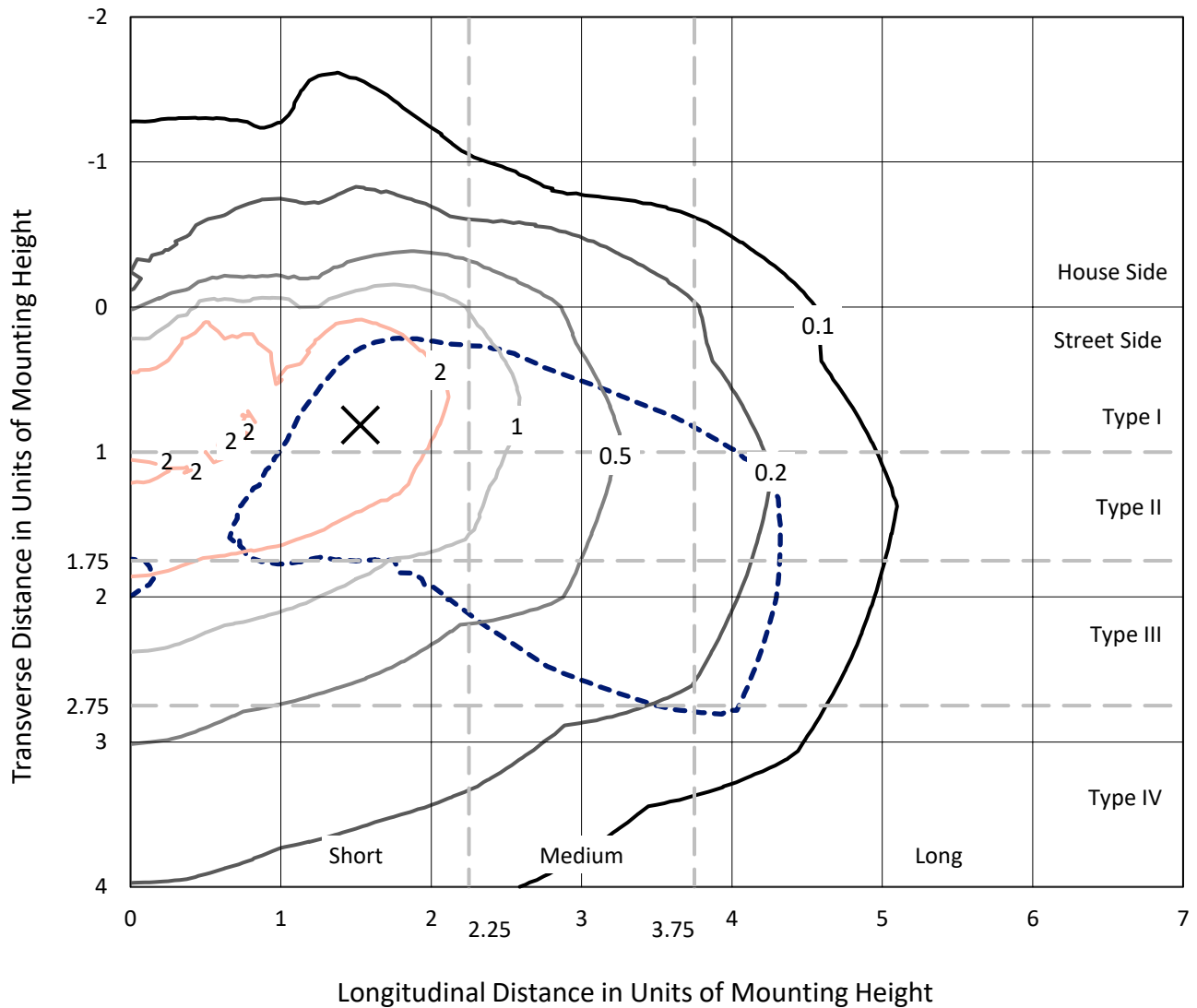
Input Watts (W): 42.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

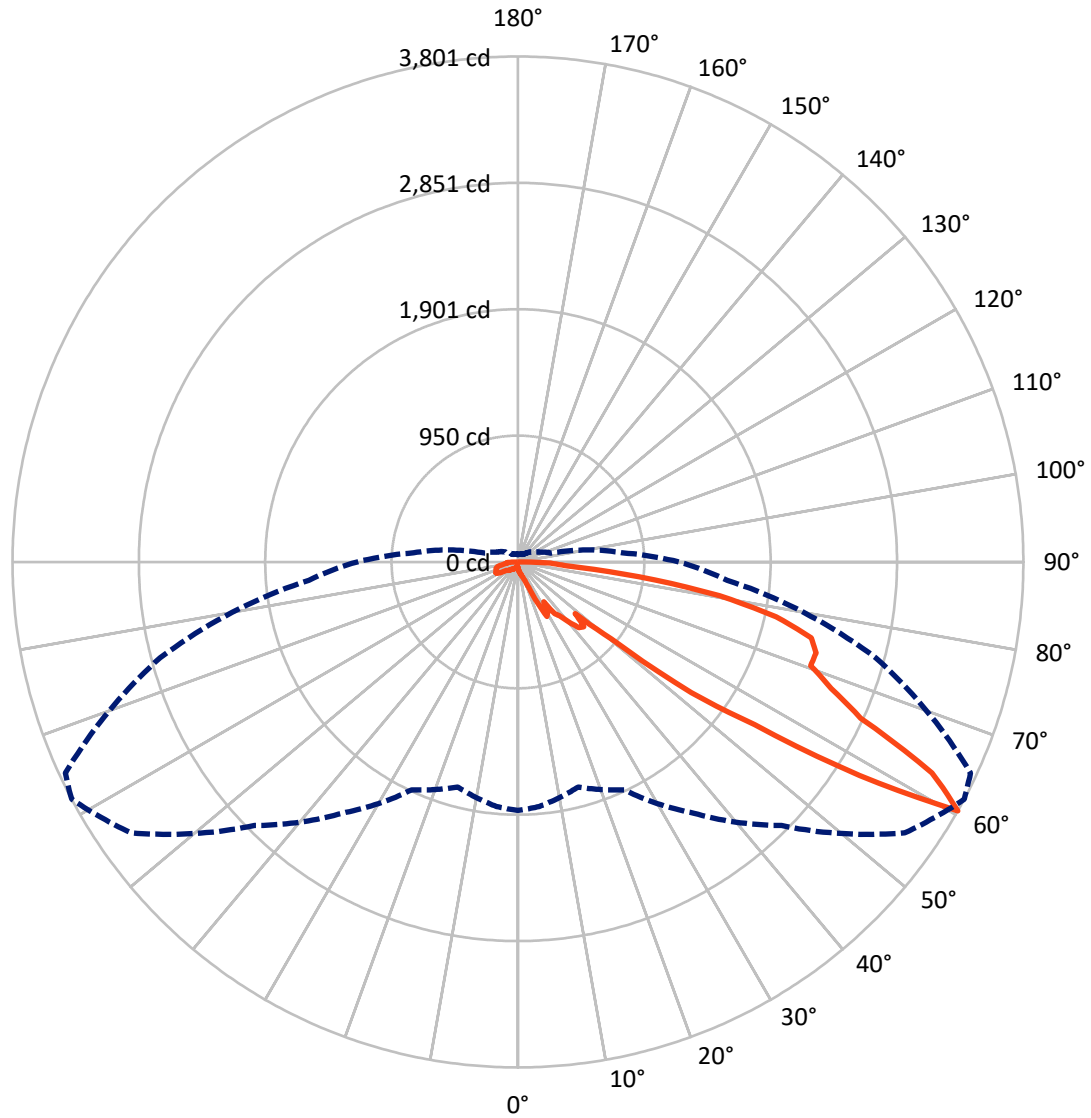
✕ Max cd
 - - - 1/2 Max cd



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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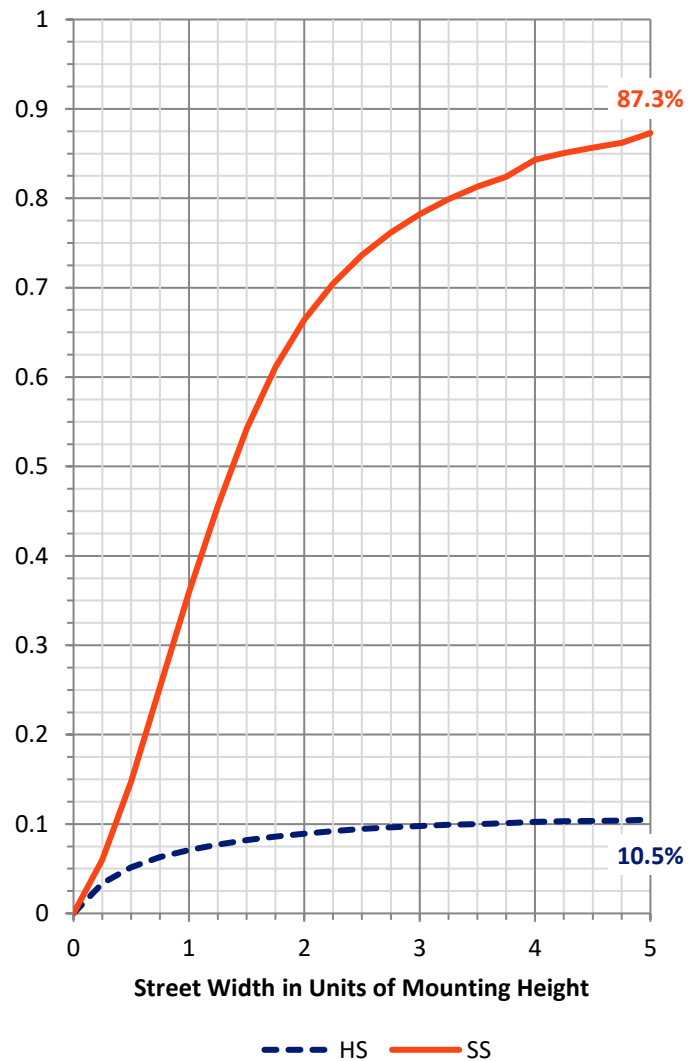
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	411.5	0.0	411.5
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	3358.5	0.0	3358.5
	% Fixture	89.1	0.0	89.1
Total	Lumens	3770.0	0.0	3770.0
	% 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°	80.0	2.1
30°-40°	158.0	4.2
40°-50°	273.4	7.3
50°-60°	809.5	21.5
60°-70°	1195.9	31.7
70°-80°	959.2	25.4
80°-90°	267.7	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°	3770.0	100.0
0°-180°	3770.0	100.0

Coefficient of Utilization



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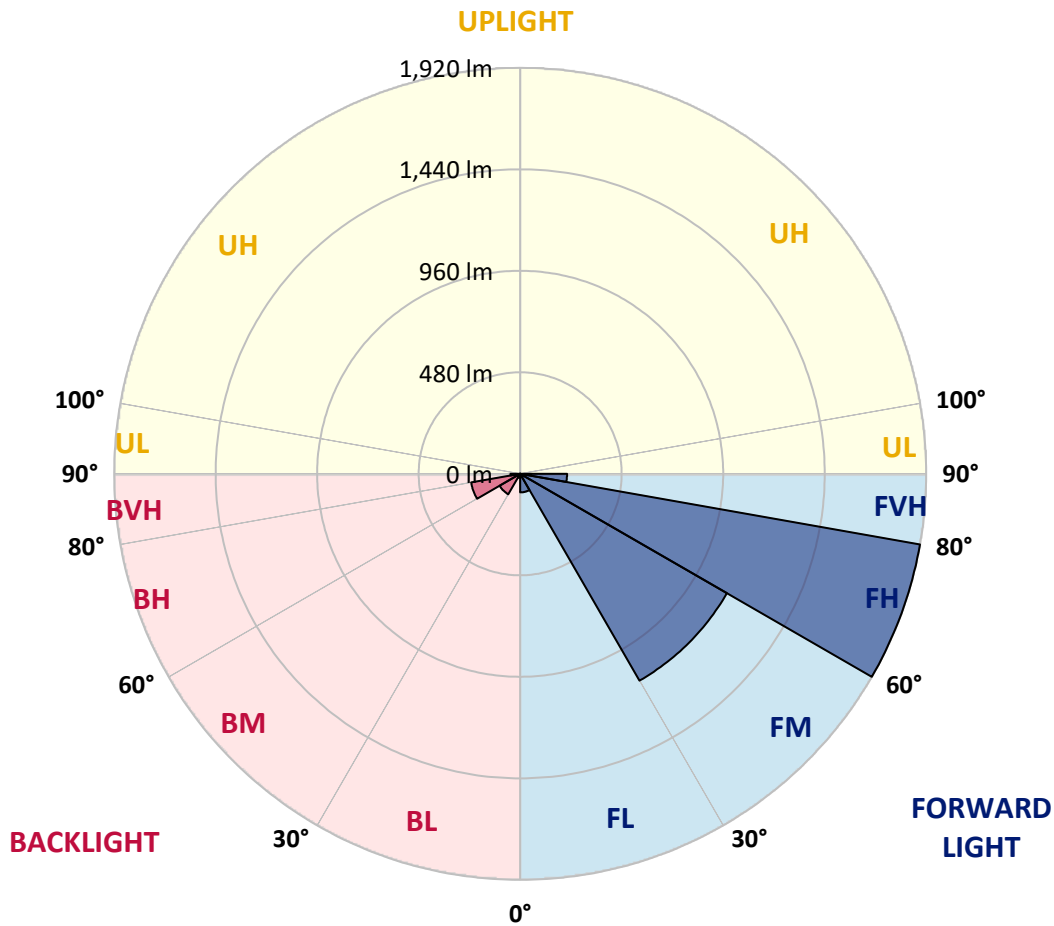
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	88.1	2.3			
FM (30°-60°)	1129.0	29.9			
FH (60°-80°)	1919.7	50.9			G2/5000
FVH (80°-90°)	221.8	5.9			G2/225
BL (0°-30°)	18.4	0.5	B0/110		
BM (30°-60°)	111.9	3.0	B0/220		
BH (60°-80°)	235.4	6.2	B1/500		G1/500
BVH (80°-90°)	45.9	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-G2

Type III Short





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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	60.1	58.1	57.0	56.0	55.0	54.0	53.0	49.9	47.9
5°	77.4	76.4	74.4	71.3	68.2	66.2	65.2	64.2	62.1	59.1	54.0
7.5°	87.6	87.6	87.6	85.6	82.5	78.4	75.4	73.3	71.3	67.2	62.1
10°	99.8	98.8	98.8	95.7	92.7	89.6	87.6	85.6	83.5	77.4	69.3
12.5°	109.0	108.0	106.9	103.9	102.9	99.8	98.8	94.7	92.7	85.6	75.4
15°	119.2	118.1	116.1	115.1	112.0	110.0	111.0	110.0	108.0	98.8	83.5
17.5°	130.4	129.3	128.3	128.3	128.3	126.3	125.3	123.2	121.2	106.9	88.6
20°	152.8	149.7	146.7	144.6	148.7	149.7	149.7	147.7	147.7	123.2	101.8
22.5°	194.5	191.5	189.4	174.2	180.3	208.8	218.0	207.8	209.8	161.9	112.0
25°	305.5	295.4	290.3	292.3	309.6	341.2	346.3	334.1	340.2	251.6	179.3
27.5°	357.5	359.5	399.2	440.0	445.1	461.4	488.9	463.4	450.2	321.8	224.1
30°	364.6	368.7	442.0	474.6	462.4	454.2	515.4	441.0	418.6	304.5	246.5
32.5°	336.1	354.4	432.9	446.1	417.6	372.8	417.6	355.5	348.3	264.8	234.3
35°	390.1	399.2	434.9	384.0	374.8	429.8	544.9	477.7	461.4	326.9	225.1
37.5°	472.6	469.5	537.8	577.5	563.2	507.2	567.3	516.4	503.1	411.5	321.8
40°	577.5	570.4	652.9	671.2	657.9	654.9	734.3	597.9	572.4	459.3	381.9
42.5°	607.0	609.1	662.0	706.8	696.7	695.6	814.8	674.2	635.5	464.4	419.6
45°	620.3	631.5	733.3	705.8	716.0	697.7	803.6	694.6	662.0	516.4	494.0
47.5°	538.8	544.9	685.4	686.5	557.1	561.2	655.9	578.5	555.1	404.3	425.7
50°	695.6	694.6	745.5	704.8	645.7	747.6	939.1	909.5	892.2	607.0	472.6
52.5°	1006.3	995.1	1072.5	1136.6	1124.4	1359.7	1644.9	1632.6	1570.5	1190.6	746.6
55°	1324.0	1318.9	1404.5	1630.6	1739.6	1960.6	2237.6	2160.2	2136.8	1753.8	1173.3
57.5°	1585.8	1586.8	1614.3	1808.8	2030.9	2458.6	2938.4	3029.0	2981.1	2264.1	1425.9
60°	1867.9	1845.5	1751.8	1890.3	2305.9	2802.9	3551.5	3801.0	3755.2	2785.6	1578.7
62.5°	1887.3	1864.9	1705.0	1845.5	2163.3	2620.6	3292.8	3495.5	3548.4	2927.2	1624.5
65°	1801.7	1774.2	1576.6	1681.5	1810.9	2087.9	2911.9	2831.4	2907.8	2883.4	1623.5
67.5°	1707.0	1684.6	1499.2	1586.8	1686.6	1872.0	2740.8	2540.1	2618.5	2712.2	1699.9
70°	1611.3	1579.7	1430.0	1524.7	1647.9	1773.2	2523.8	2335.4	2315.0	2297.7	1623.5
72.5°	1595.0	1570.5	1411.6	1477.8	1617.4	1710.1	2488.2	2343.6	2323.2	2216.2	1485.0
75°	1470.7	1468.7	1315.9	1378.0	1546.1	1604.1	2389.4	2278.4	2235.6	2098.1	1306.7
77.5°	1187.6	1172.3	1061.3	1126.5	1278.2	1358.7	2056.3	1984.0	1959.6	1831.3	1080.6
80°	798.5	785.3	737.4	775.1	916.6	986.9	1543.0	1536.9	1518.6	1434.0	798.5
82.5°	454.2	476.7	431.8	449.2	498.0	584.6	959.4	917.7	904.4	844.3	453.2
85°	255.6	250.5	233.2	231.2	269.9	265.8	414.5	355.5	369.7	319.8	215.9
87.5°	184.3	188.4	170.1	170.1	188.4	186.4	260.7	245.5	243.4	228.1	154.8
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°	46.9	45.8	42.8	39.7	34.6	29.5	26.5	28.5	29.5	30.6	30.6
5°	50.9	48.9	42.8	36.7	30.6	25.5	21.4	19.4	19.4	20.4	20.4
7.5°	60.1	57.0	48.9	41.8	33.6	28.5	23.4	20.4	18.3	18.3	18.3
10°	65.2	62.1	53.0	44.8	36.7	30.6	25.5	21.4	19.4	18.3	18.3
12.5°	70.3	66.2	57.0	47.9	38.7	31.6	26.5	22.4	21.4	21.4	21.4
15°	76.4	70.3	59.1	48.9	39.7	32.6	26.5	23.4	22.4	22.4	22.4
17.5°	82.5	76.4	63.1	49.9	40.7	32.6	27.5	23.4	22.4	23.4	23.4
20°	92.7	81.5	63.1	50.9	40.7	32.6	27.5	23.4	23.4	23.4	23.4
22.5°	97.8	88.6	67.2	51.9	41.8	33.6	27.5	23.4	23.4	23.4	23.4
25°	150.7	112.0	70.3	54.0	42.8	34.6	27.5	24.4	23.4	24.4	24.4
27.5°	189.4	157.9	80.5	57.0	43.8	35.6	28.5	24.4	24.4	25.5	25.5
30°	210.8	180.3	87.6	62.1	46.9	36.7	29.5	25.5	25.5	25.5	25.5
32.5°	200.6	163.0	88.6	68.2	51.9	38.7	30.6	26.5	26.5	26.5	26.5
35°	174.2	134.4	86.6	69.3	55.0	42.8	32.6	27.5	27.5	26.5	26.5
37.5°	243.4	169.1	89.6	69.3	57.0	45.8	35.6	29.5	28.5	27.5	27.5
40°	288.2	188.4	98.8	74.4	57.0	46.9	37.7	32.6	30.6	29.5	28.5
42.5°	319.8	206.8	105.9	81.5	63.1	48.9	38.7	35.6	32.6	30.6	30.6
45°	365.6	219.0	115.1	89.6	69.3	54.0	41.8	36.7	35.6	33.6	32.6
47.5°	334.1	223.1	124.3	98.8	76.4	59.1	45.8	39.7	38.7	36.7	35.6
50°	343.2	216.9	127.3	104.9	83.5	63.1	49.9	43.8	41.8	39.7	39.7
52.5°	468.5	287.2	139.5	108.0	86.6	69.3	54.0	47.9	45.8	43.8	43.8
55°	764.9	440.0	172.1	119.2	89.6	71.3	58.1	53.0	49.9	47.9	46.9
57.5°	999.1	621.3	218.0	145.6	106.9	75.4	60.1	58.1	56.0	51.9	50.9
60°	1212.0	787.3	256.7	175.2	134.4	97.8	69.3	64.2	63.1	57.0	55.0
62.5°	1385.2	924.8	288.2	191.5	153.8	126.3	94.7	79.4	71.3	64.2	62.1
65°	1448.3	970.6	300.5	194.5	158.9	140.6	119.2	108.0	84.5	73.3	71.3
67.5°	1472.7	960.4	306.6	188.4	154.8	140.6	125.3	126.3	102.9	81.5	78.4
70°	1424.9	920.7	303.5	182.3	148.7	136.5	122.2	118.1	106.9	87.6	83.5
72.5°	1316.9	884.1	302.5	181.3	146.7	131.4	113.1	100.8	91.7	86.6	84.5
75°	1209.0	859.6	298.4	180.3	143.6	124.3	102.9	87.6	75.4	76.4	78.4
77.5°	1026.6	758.8	276.0	167.0	129.3	108.0	88.6	77.4	68.2	67.2	67.2
80°	776.1	563.2	226.1	139.5	105.9	87.6	73.3	69.3	64.2	62.1	61.1
82.5°	429.8	296.4	145.6	103.9	83.5	68.2	62.1	62.1	59.1	56.0	56.0
85°	196.6	166.0	108.0	86.6	71.3	59.1	54.0	54.0	50.9	47.9	46.9
87.5°	152.8	131.4	91.7	80.5	69.3	58.1	51.9	51.9	48.9	46.9	46.9
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)