

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: P588569

Luminaire Tested: **ARC-CA6-100-740-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588569
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-CA6-100-740-U-33-6-5-X-GHSS
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD
Light Source: (3) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4467 lumens
Efficiency: N/A
Efficacy: 85.6 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

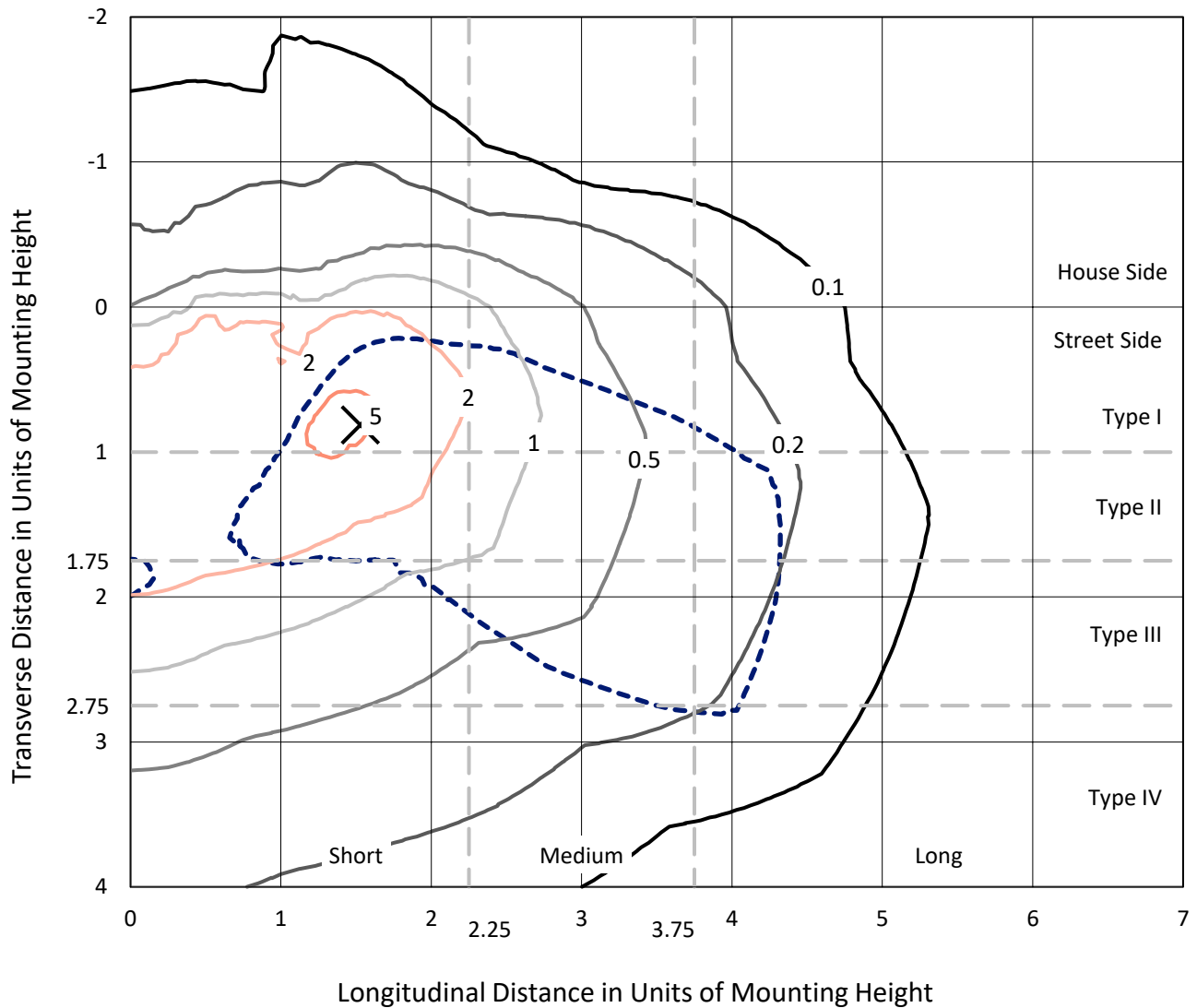
Input Watts (W): 52.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

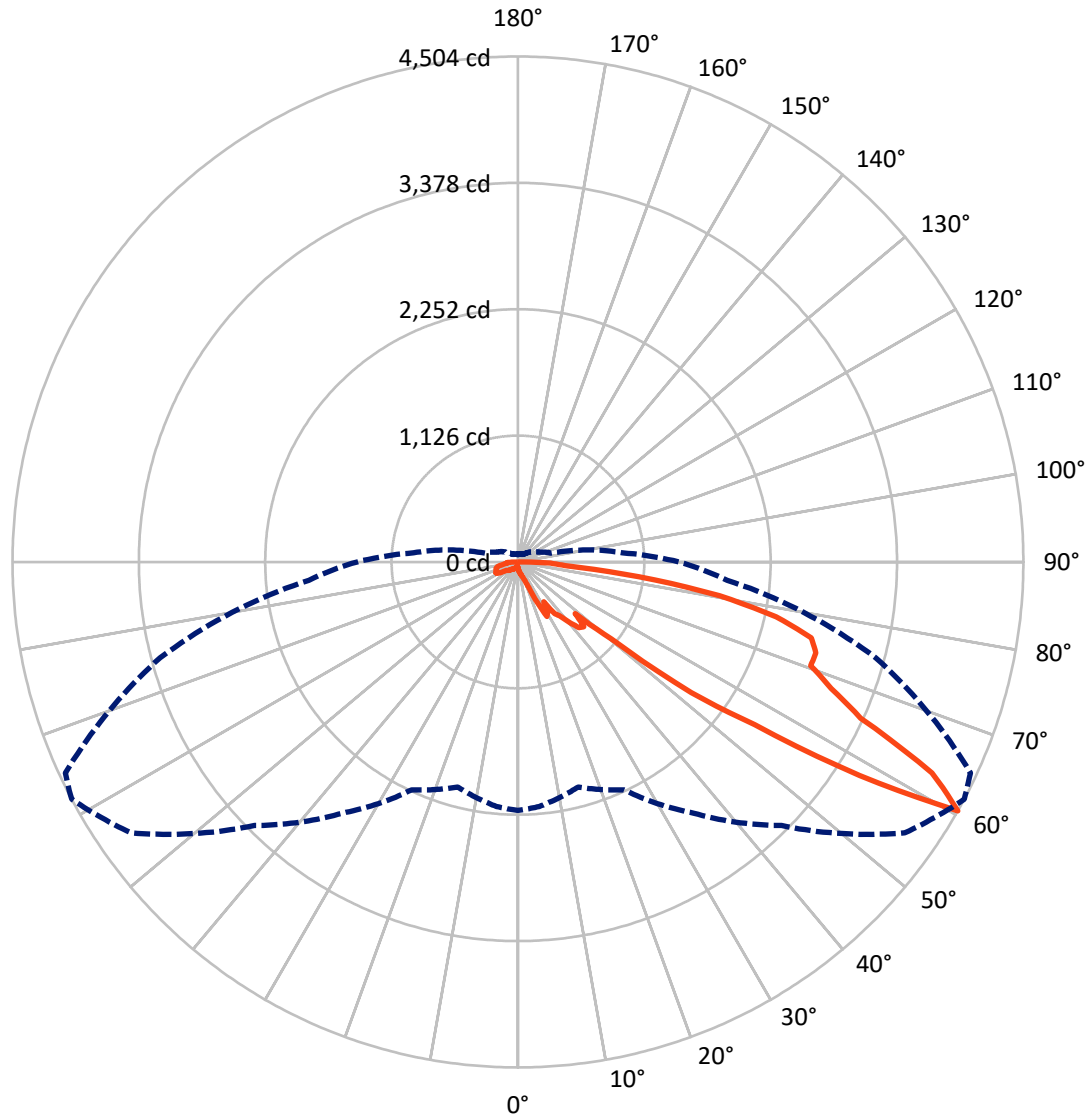
× Max cd
 - - - 1/2 Max cd



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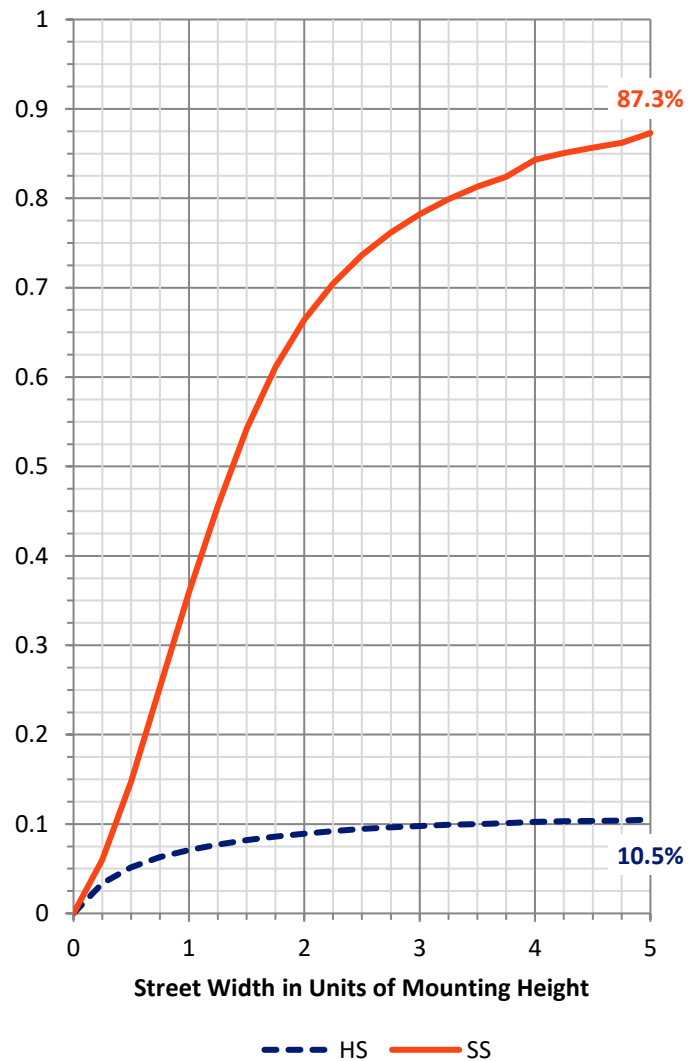
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	487.6	0.0	487.6
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	3979.4	0.0	3979.4
	% Fixture	89.1	0.0	89.1
Total	Lumens	4467.0	0.0	4467.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.0	0.1
10°-20°	25.4	0.6
20°-30°	94.8	2.1
30°-40°	187.2	4.2
40°-50°	323.9	7.3
50°-60°	959.1	21.5
60°-70°	1417.0	31.7
70°-80°	1136.5	25.4
80°-90°	317.1	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°	4467.0	100.0
0°-180°	4467.0	100.0

Coefficient of Utilization



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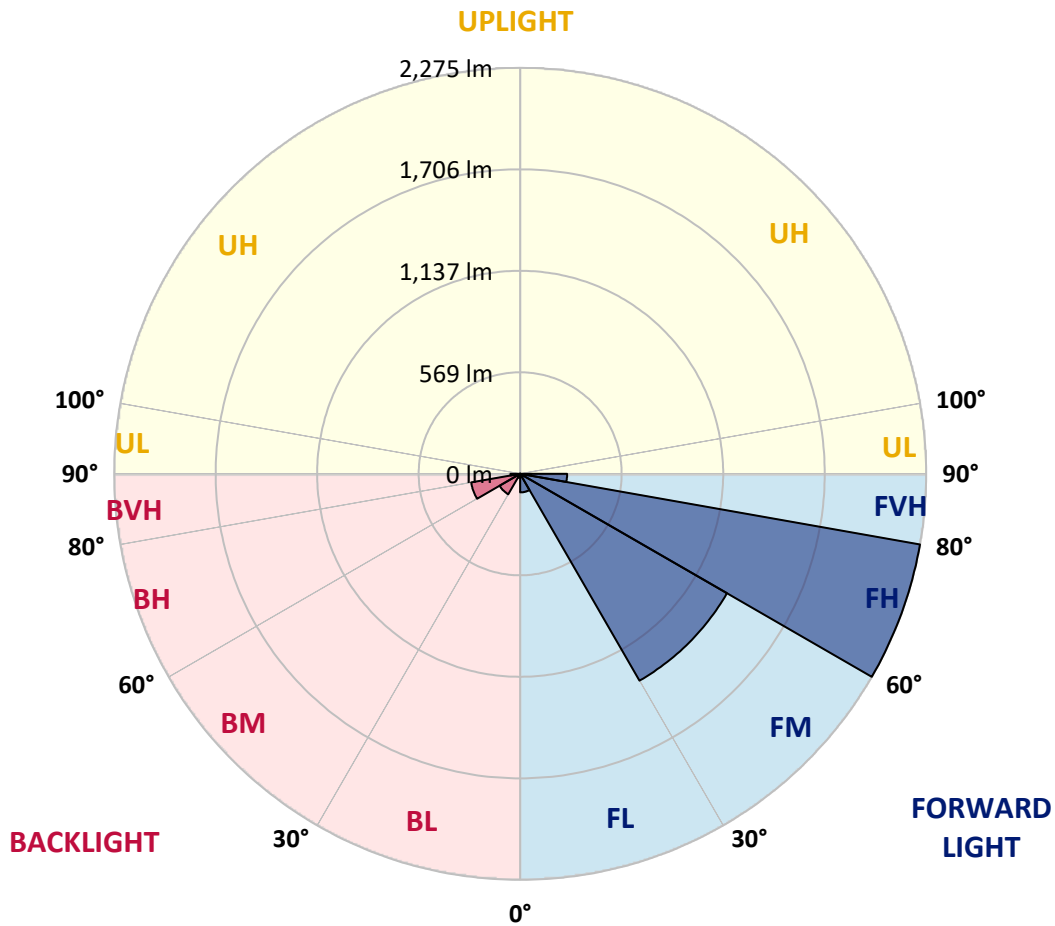
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	104.3	2.3			
FM (30°-60°)	1337.7	29.9			
FH (60°-80°)	2274.6	50.9			G2/5000
FVH (80°-90°)	262.8	5.9			G3/500
BL (0°-30°)	21.8	0.5	B0/110		
BM (30°-60°)	132.6	3.0	B0/220		
BH (60°-80°)	278.9	6.2	B1/500		G1/500
BVH (80°-90°)	54.4	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°	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
2.5°	74.8	73.6	71.2	68.8	67.6	66.4	65.2	64.0	62.8	59.1	56.7
5°	91.7	90.5	88.1	84.5	80.9	78.4	77.2	76.0	73.6	70.0	64.0
7.5°	103.8	103.8	103.8	101.4	97.8	92.9	89.3	86.9	84.5	79.6	73.6
10°	118.3	117.1	117.1	113.4	109.8	106.2	103.8	101.4	99.0	91.7	82.1
12.5°	129.1	127.9	126.7	123.1	121.9	118.3	117.1	112.2	109.8	101.4	89.3
15°	141.2	140.0	137.6	136.4	132.7	130.3	131.5	130.3	127.9	117.1	99.0
17.5°	154.5	153.3	152.1	152.1	152.1	149.6	148.4	146.0	143.6	126.7	105.0
20°	181.0	177.4	173.8	171.4	176.2	177.4	177.4	175.0	175.0	146.0	120.7
22.5°	230.5	226.9	224.5	206.4	213.6	247.4	258.3	246.2	248.6	191.9	132.7
25°	362.0	350.0	343.9	346.3	366.9	404.3	410.3	395.8	403.1	298.1	212.4
27.5°	423.6	426.0	473.1	521.3	527.4	546.7	579.3	549.1	533.4	381.3	265.5
30°	432.0	436.9	523.7	562.4	547.9	538.2	610.6	522.5	496.0	360.8	292.0
32.5°	398.2	420.0	512.9	528.6	494.8	441.7	494.8	421.2	412.7	313.8	277.6
35°	462.2	473.1	515.3	455.0	444.1	509.3	645.6	566.0	546.7	387.4	266.7
37.5°	560.0	556.3	637.2	684.3	667.4	601.0	672.2	611.8	596.2	487.5	381.3
40°	684.3	675.8	773.6	795.3	779.6	776.0	870.1	708.4	678.2	544.3	452.5
42.5°	719.2	721.7	784.4	837.5	825.4	824.2	965.4	798.9	753.0	550.3	497.2
45°	734.9	748.2	868.9	836.3	848.4	826.7	952.2	823.0	784.4	611.8	585.3
47.5°	638.4	645.6	812.2	813.4	660.1	664.9	777.2	685.5	657.7	479.1	504.4
50°	824.2	823.0	883.4	835.1	765.1	885.8	1112.7	1077.7	1057.2	719.2	560.0
52.5°	1192.3	1179.0	1270.8	1346.8	1332.3	1611.1	1949.0	1934.5	1860.9	1410.7	884.6
55°	1568.8	1562.8	1664.2	1932.1	2061.2	2323.1	2651.3	2559.6	2531.9	2078.1	1390.2
57.5°	1879.0	1880.2	1912.8	2143.3	2406.3	2913.2	3481.6	3589.0	3532.3	2682.7	1689.5
60°	2213.3	2186.7	2075.7	2239.8	2732.2	3321.1	4208.1	4503.8	4449.4	3300.6	1870.5
62.5°	2236.2	2209.6	2020.2	2186.7	2563.2	3105.1	3901.6	4141.7	4204.5	3468.3	1924.8
65°	2134.8	2102.2	1868.1	1992.4	2145.7	2473.9	3450.2	3354.9	3445.4	3416.4	1923.6
67.5°	2022.6	1996.0	1776.4	1880.2	1998.5	2218.1	3247.5	3009.7	3102.7	3213.7	2014.1
70°	1909.1	1871.7	1694.3	1806.6	1952.6	2101.0	2990.4	2767.2	2743.0	2722.5	1923.6
72.5°	1889.8	1860.9	1672.6	1751.1	1916.4	2026.2	2948.2	2776.8	2752.7	2626.0	1759.5
75°	1742.6	1740.2	1559.2	1632.8	1831.9	1900.7	2831.1	2699.6	2648.9	2486.0	1548.3
77.5°	1407.1	1389.0	1257.5	1334.7	1514.5	1609.9	2436.5	2350.8	2321.9	2169.8	1280.4
80°	946.1	930.4	873.7	918.4	1086.1	1169.4	1828.3	1821.1	1799.3	1699.2	946.1
82.5°	538.2	564.8	511.7	532.2	590.1	692.7	1136.8	1087.3	1071.6	1000.4	537.0
85°	302.9	296.9	276.4	273.9	319.8	315.0	491.2	421.2	438.1	378.9	255.8
87.5°	218.4	223.3	201.5	201.5	223.3	220.8	308.9	290.8	288.4	270.3	183.4
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°	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
2.5°	55.5	54.3	50.7	47.1	41.0	35.0	31.4	33.8	35.0	36.2	36.2
5°	60.3	57.9	50.7	43.4	36.2	30.2	25.3	22.9	22.9	24.1	24.1
7.5°	71.2	67.6	57.9	49.5	39.8	33.8	27.8	24.1	21.7	21.7	21.7
10°	77.2	73.6	62.8	53.1	43.4	36.2	30.2	25.3	22.9	21.7	21.7
12.5°	83.3	78.4	67.6	56.7	45.9	37.4	31.4	26.5	25.3	25.3	25.3
15°	90.5	83.3	70.0	57.9	47.1	38.6	31.4	27.8	26.5	26.5	26.5
17.5°	97.8	90.5	74.8	59.1	48.3	38.6	32.6	27.8	26.5	27.8	27.8
20°	109.8	96.5	74.8	60.3	48.3	38.6	32.6	27.8	27.8	27.8	27.8
22.5°	115.9	105.0	79.6	61.5	49.5	39.8	32.6	27.8	27.8	27.8	27.8
25°	178.6	132.7	83.3	64.0	50.7	41.0	32.6	29.0	27.8	29.0	29.0
27.5°	224.5	187.1	95.3	67.6	51.9	42.2	33.8	29.0	29.0	30.2	30.2
30°	249.8	213.6	103.8	73.6	55.5	43.4	35.0	30.2	30.2	30.2	30.2
32.5°	237.7	193.1	105.0	80.9	61.5	45.9	36.2	31.4	31.4	31.4	31.4
35°	206.4	159.3	102.6	82.1	65.2	50.7	38.6	32.6	32.6	31.4	31.4
37.5°	288.4	200.3	106.2	82.1	67.6	54.3	42.2	35.0	33.8	32.6	32.6
40°	341.5	223.3	117.1	88.1	67.6	55.5	44.7	38.6	36.2	35.0	33.8
42.5°	378.9	245.0	125.5	96.5	74.8	57.9	45.9	42.2	38.6	36.2	36.2
45°	433.2	259.5	136.4	106.2	82.1	64.0	49.5	43.4	42.2	39.8	38.6
47.5°	395.8	264.3	147.2	117.1	90.5	70.0	54.3	47.1	45.9	43.4	42.2
50°	406.7	257.0	150.8	124.3	99.0	74.8	59.1	51.9	49.5	47.1	47.1
52.5°	555.1	340.3	165.3	127.9	102.6	82.1	64.0	56.7	54.3	51.9	51.9
55°	906.3	521.3	203.9	141.2	106.2	84.5	68.8	62.8	59.1	56.7	55.5
57.5°	1183.9	736.1	258.3	172.6	126.7	89.3	71.2	68.8	66.4	61.5	60.3
60°	1436.1	932.9	304.1	207.6	159.3	115.9	82.1	76.0	74.8	67.6	65.2
62.5°	1641.2	1095.8	341.5	226.9	182.2	149.6	112.2	94.1	84.5	76.0	73.6
65°	1716.1	1150.1	356.0	230.5	188.3	166.5	141.2	127.9	100.2	86.9	84.5
67.5°	1745.0	1138.0	363.2	223.3	183.4	166.5	148.4	149.6	121.9	96.5	92.9
70°	1688.3	1090.9	359.6	216.0	176.2	161.7	144.8	140.0	126.7	103.8	99.0
72.5°	1560.4	1047.5	358.4	214.8	173.8	155.7	134.0	119.5	108.6	102.6	100.2
75°	1432.5	1018.5	353.6	213.6	170.2	147.2	121.9	103.8	89.3	90.5	92.9
77.5°	1216.4	899.1	327.0	197.9	153.3	127.9	105.0	91.7	80.9	79.6	79.6
80°	919.6	667.4	267.9	165.3	125.5	103.8	86.9	82.1	76.0	73.6	72.4
82.5°	509.3	351.2	172.6	123.1	99.0	80.9	73.6	73.6	70.0	66.4	66.4
85°	232.9	196.7	127.9	102.6	84.5	70.0	64.0	64.0	60.3	56.7	55.5
87.5°	181.0	155.7	108.6	95.3	82.1	68.8	61.5	61.5	57.9	55.5	55.5
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)