

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: P588617

Luminaire Tested: **ARC-CA6-80-740-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588617
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-CA6-80-740-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: 3702 lumens
Efficiency: N/A
Efficacy: 87.5 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

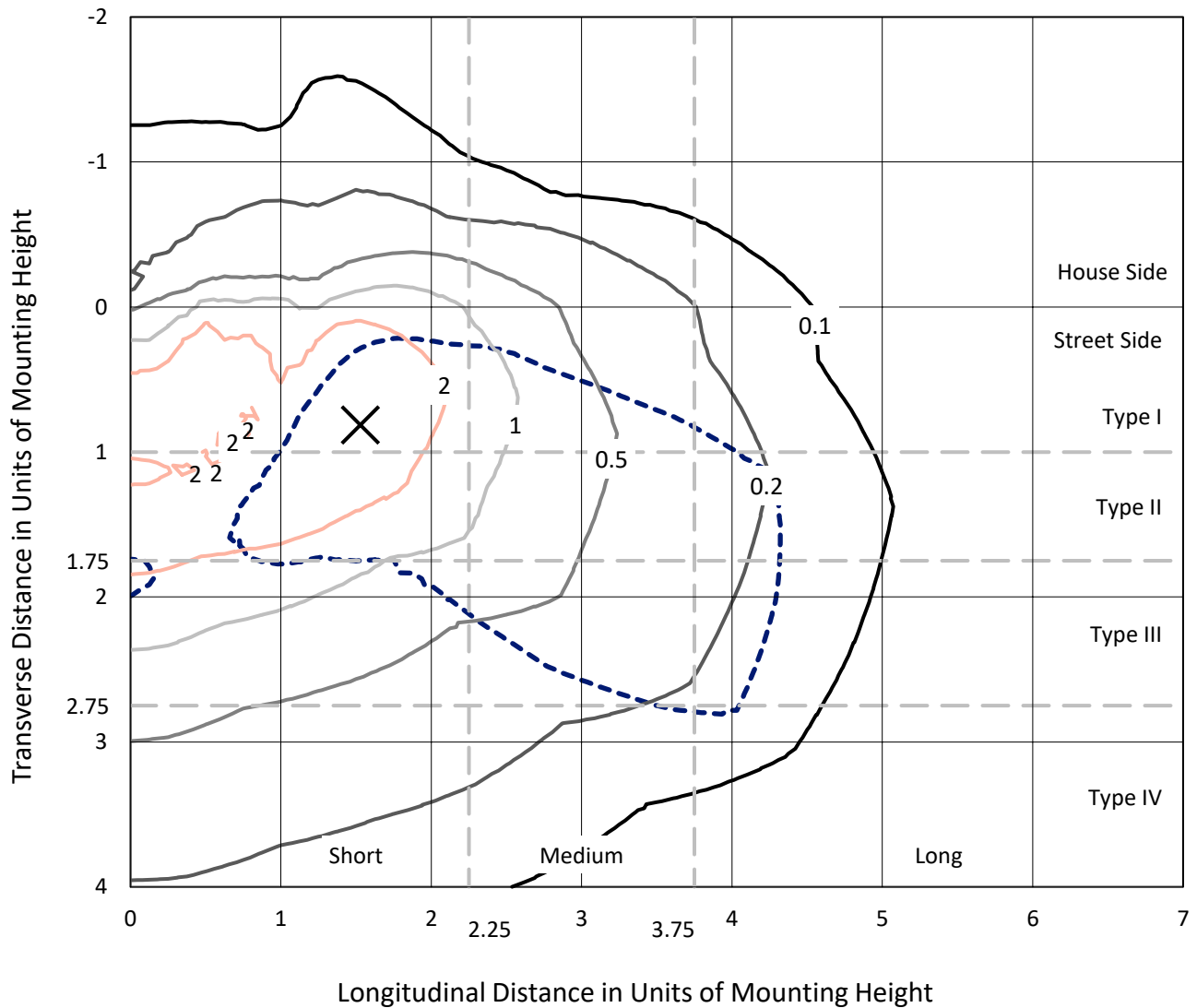
Input Watts (W): 42.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P588617
 CATALOG NUMBER: ARC-CA6-80-740-U-33-6-5-X-GHSS

Iso-Footcandle Lines of Horizontal Illumination

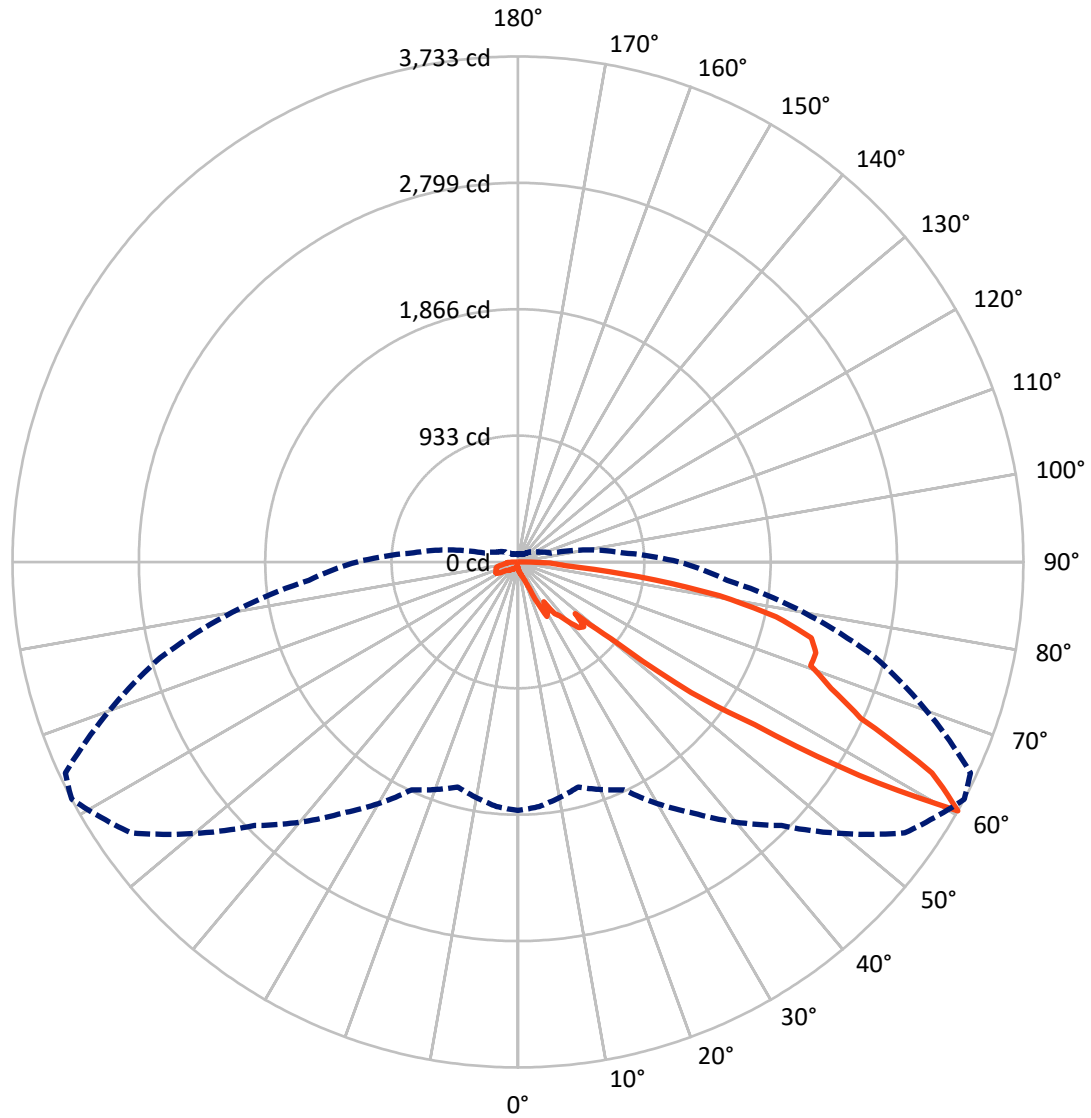
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P588617
CATALOG NUMBER: ARC-CA6-80-740-U-33-6-5-X-GHSS

Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P588617

CATALOG NUMBER: ARC-CA6-80-740-U-33-6-5-X-GHSS

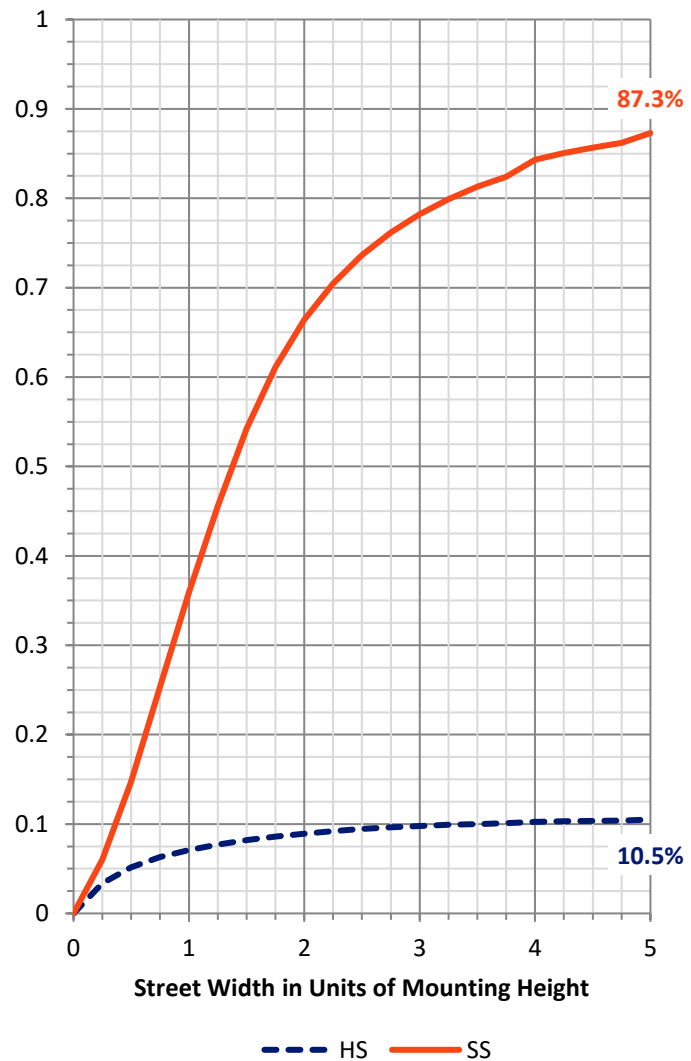
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	404.1	0.0	404.1
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	3297.9	0.0	3297.9
	% Fixture	89.1	0.0	89.1
Total	Lumens	3702.0	0.0	3702.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.0	0.1
10°-20°	21.0	0.6
20°-30°	78.5	2.1
30°-40°	155.1	4.2
40°-50°	268.4	7.3
50°-60°	794.9	21.5
60°-70°	1174.3	31.7
70°-80°	941.9	25.4
80°-90°	262.8	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°	3702.0	100.0
0°-180°	3702.0	100.0

Coefficient of Utilization



REPORT NUMBER: P588617

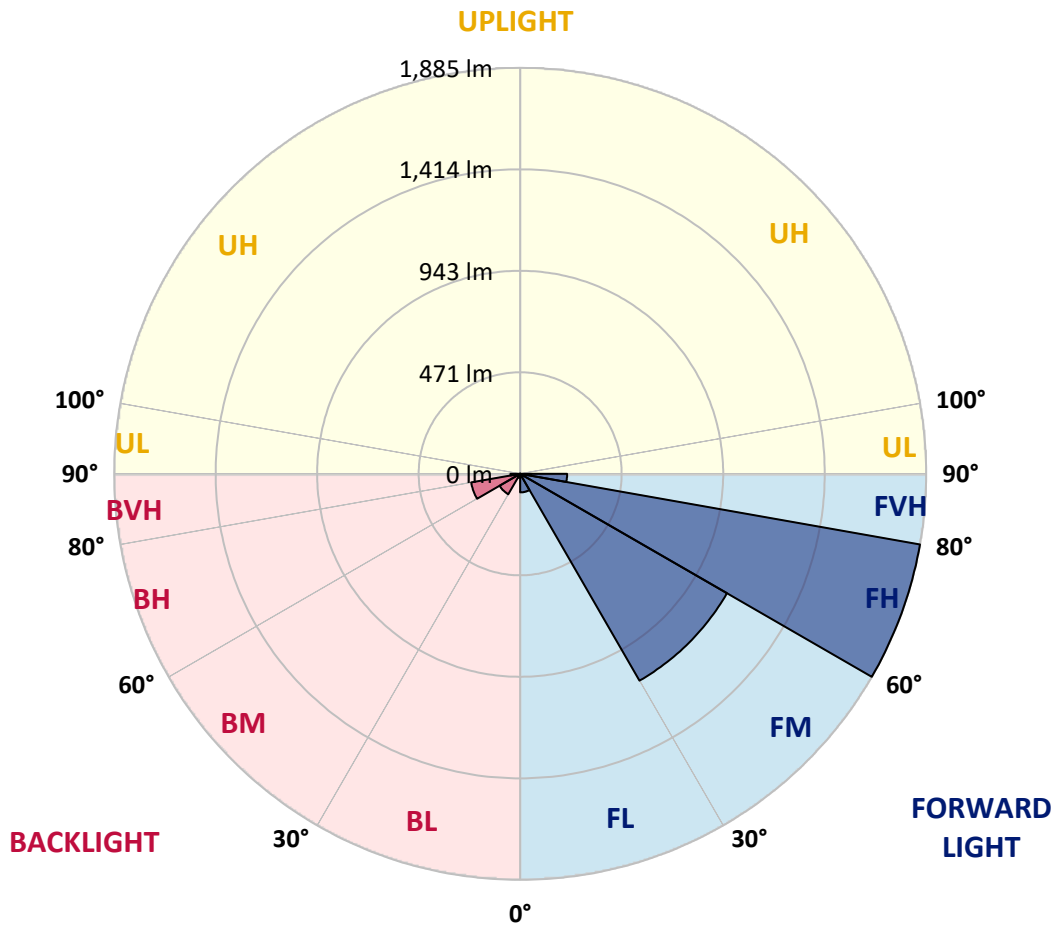
CATALOG NUMBER: ARC-CA6-80-740-U-33-6-5-X-GHSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	86.5	2.3			
FM (30°-60°)	1108.6	29.9			
FH (60°-80°)	1885.0	50.9			G2/5000
FVH (80°-90°)	217.8	5.9			G2/225
BL (0°-30°)	18.0	0.5	B0/110		
BM (30°-60°)	109.8	3.0	B0/220		
BH (60°-80°)	231.1	6.2	B1/500		G1/500
BVH (80°-90°)	45.1	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: P588617

CATALOG NUMBER: ARC-CA6-80-740-U-33-6-5-X-GHSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
2.5°	62.0	61.0	59.0	57.0	56.0	55.0	54.0	53.0	52.0	49.0	47.0
5°	76.0	75.0	73.0	70.0	67.0	65.0	64.0	63.0	61.0	58.0	53.0
7.5°	86.0	86.0	86.0	84.0	81.0	77.0	74.0	72.0	70.0	66.0	61.0
10°	98.0	97.0	97.0	94.0	91.0	88.0	86.0	84.0	82.0	76.0	68.0
12.5°	107.0	106.0	105.0	102.0	101.0	98.0	97.0	93.0	91.0	84.0	74.0
15°	117.0	116.0	114.0	113.0	110.0	108.0	109.0	108.0	106.0	97.0	82.0
17.5°	128.0	127.0	126.0	126.0	126.0	124.0	123.0	121.0	119.0	105.0	87.0
20°	150.0	147.0	144.0	142.0	146.0	147.0	147.0	145.0	145.0	121.0	100.0
22.5°	191.0	188.0	186.0	171.0	177.0	205.0	214.0	204.0	206.0	159.0	110.0
25°	300.0	290.0	285.0	287.0	304.0	335.0	340.0	328.0	334.0	247.0	176.0
27.5°	351.0	353.0	392.0	432.1	437.1	453.1	480.1	455.1	442.1	316.0	220.0
30°	358.0	362.0	434.1	466.1	454.1	446.1	506.1	433.1	411.1	299.0	242.0
32.5°	330.0	348.0	425.1	438.1	410.1	366.0	410.1	349.0	342.0	260.0	230.0
35°	383.0	392.0	427.1	377.0	368.0	422.1	535.1	469.1	453.1	321.0	221.0
37.5°	464.1	461.1	528.1	567.1	553.1	498.1	557.1	507.1	494.1	404.0	316.0
40°	567.1	560.1	641.1	659.1	646.1	643.1	721.1	587.1	562.1	451.1	375.0
42.5°	596.1	598.1	650.1	694.1	684.1	683.1	800.1	662.1	624.1	456.1	412.1
45°	609.1	620.1	720.1	693.1	703.1	685.1	789.1	682.1	650.1	507.1	485.1
47.5°	529.1	535.1	673.1	674.1	547.1	551.1	644.1	568.1	545.1	397.0	418.1
50°	683.1	682.1	732.1	692.1	634.1	734.1	922.1	893.1	876.1	596.1	464.1
52.5°	988.1	977.1	1053.1	1116.1	1104.1	1335.2	1615.2	1603.2	1542.2	1169.1	733.1
55°	1300.2	1295.2	1379.2	1601.2	1708.2	1925.2	2197.3	2121.3	2098.3	1722.2	1152.1
57.5°	1557.2	1558.2	1585.2	1776.2	1994.2	2414.3	2885.4	2974.4	2927.4	2223.3	1400.2
60°	1834.2	1812.2	1720.2	1856.2	2264.3	2752.3	3487.4	3732.5	3687.5	2735.3	1550.2
62.5°	1853.2	1831.2	1674.2	1812.2	2124.3	2573.3	3233.4	3432.4	3484.4	2874.4	1595.2
65°	1769.2	1742.2	1548.2	1651.2	1778.2	2050.3	2859.4	2780.3	2855.4	2831.3	1594.2
67.5°	1676.2	1654.2	1472.2	1558.2	1656.2	1838.2	2691.3	2494.3	2571.3	2663.3	1669.2
70°	1582.2	1551.2	1404.2	1497.2	1618.2	1741.2	2478.3	2293.3	2273.3	2256.3	1594.2
72.5°	1566.2	1542.2	1386.2	1451.2	1588.2	1679.2	2443.3	2301.3	2281.3	2176.3	1458.2
75°	1444.2	1442.2	1292.2	1353.2	1518.2	1575.2	2346.3	2237.3	2195.3	2060.3	1283.2
77.5°	1166.1	1151.1	1042.1	1106.1	1255.2	1334.2	2019.2	1948.2	1924.2	1798.2	1061.1
80°	784.1	771.1	724.1	761.1	900.1	969.1	1515.2	1509.2	1491.2	1408.2	784.1
82.5°	446.1	468.1	424.1	441.1	489.1	574.1	942.1	901.1	888.1	829.1	445.1
85°	251.0	246.0	229.0	227.0	265.0	261.0	407.1	349.0	363.0	314.0	212.0
87.5°	181.0	185.0	167.0	167.0	185.0	183.0	256.0	241.0	239.0	224.0	152.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P588617

CATALOG NUMBER: ARC-CA6-80-740-U-33-6-5-X-GHSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
2.5°	46.0	45.0	42.0	39.0	34.0	29.0	26.0	28.0	29.0	30.0	30.0
5°	50.0	48.0	42.0	36.0	30.0	25.0	21.0	19.0	19.0	20.0	20.0
7.5°	59.0	56.0	48.0	41.0	33.0	28.0	23.0	20.0	18.0	18.0	18.0
10°	64.0	61.0	52.0	44.0	36.0	30.0	25.0	21.0	19.0	18.0	18.0
12.5°	69.0	65.0	56.0	47.0	38.0	31.0	26.0	22.0	21.0	21.0	21.0
15°	75.0	69.0	58.0	48.0	39.0	32.0	26.0	23.0	22.0	22.0	22.0
17.5°	81.0	75.0	62.0	49.0	40.0	32.0	27.0	23.0	22.0	23.0	23.0
20°	91.0	80.0	62.0	50.0	40.0	32.0	27.0	23.0	23.0	23.0	23.0
22.5°	96.0	87.0	66.0	51.0	41.0	33.0	27.0	23.0	23.0	23.0	23.0
25°	148.0	110.0	69.0	53.0	42.0	34.0	27.0	24.0	23.0	24.0	24.0
27.5°	186.0	155.0	79.0	56.0	43.0	35.0	28.0	24.0	24.0	25.0	25.0
30°	207.0	177.0	86.0	61.0	46.0	36.0	29.0	25.0	25.0	25.0	25.0
32.5°	197.0	160.0	87.0	67.0	51.0	38.0	30.0	26.0	26.0	26.0	26.0
35°	171.0	132.0	85.0	68.0	54.0	42.0	32.0	27.0	27.0	26.0	26.0
37.5°	239.0	166.0	88.0	68.0	56.0	45.0	35.0	29.0	28.0	27.0	27.0
40°	283.0	185.0	97.0	73.0	56.0	46.0	37.0	32.0	30.0	29.0	28.0
42.5°	314.0	203.0	104.0	80.0	62.0	48.0	38.0	35.0	32.0	30.0	30.0
45°	359.0	215.0	113.0	88.0	68.0	53.0	41.0	36.0	35.0	33.0	32.0
47.5°	328.0	219.0	122.0	97.0	75.0	58.0	45.0	39.0	38.0	36.0	35.0
50°	337.0	213.0	125.0	103.0	82.0	62.0	49.0	43.0	41.0	39.0	39.0
52.5°	460.1	282.0	137.0	106.0	85.0	68.0	53.0	47.0	45.0	43.0	43.0
55°	751.1	432.1	169.0	117.0	88.0	70.0	57.0	52.0	49.0	47.0	46.0
57.5°	981.1	610.1	214.0	143.0	105.0	74.0	59.0	57.0	55.0	51.0	50.0
60°	1190.1	773.1	252.0	172.0	132.0	96.0	68.0	63.0	62.0	56.0	54.0
62.5°	1360.2	908.1	283.0	188.0	151.0	124.0	93.0	78.0	70.0	63.0	61.0
65°	1422.2	953.1	295.0	191.0	156.0	138.0	117.0	106.0	83.0	72.0	70.0
67.5°	1446.2	943.1	301.0	185.0	152.0	138.0	123.0	124.0	101.0	80.0	77.0
70°	1399.2	904.1	298.0	179.0	146.0	134.0	120.0	116.0	105.0	86.0	82.0
72.5°	1293.2	868.1	297.0	178.0	144.0	129.0	111.0	99.0	90.0	85.0	83.0
75°	1187.1	844.1	293.0	177.0	141.0	122.0	101.0	86.0	74.0	75.0	77.0
77.5°	1008.1	745.1	271.0	164.0	127.0	106.0	87.0	76.0	67.0	66.0	66.0
80°	762.1	553.1	222.0	137.0	104.0	86.0	72.0	68.0	63.0	61.0	60.0
82.5°	422.1	291.0	143.0	102.0	82.0	67.0	61.0	61.0	58.0	55.0	55.0
85°	193.0	163.0	106.0	85.0	70.0	58.0	53.0	53.0	50.0	47.0	46.0
87.5°	150.0	129.0	90.0	79.0	68.0	57.0	51.0	51.0	48.0	46.0	46.0
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)