

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: P588603

Luminaire Tested: **ARC-CA6-130-730-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588603
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-CA6-130-730-U-33-6-5-X-GHSS
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD
Light Source: (3) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5233 lumens
Efficiency: N/A
Efficacy: 83.6 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

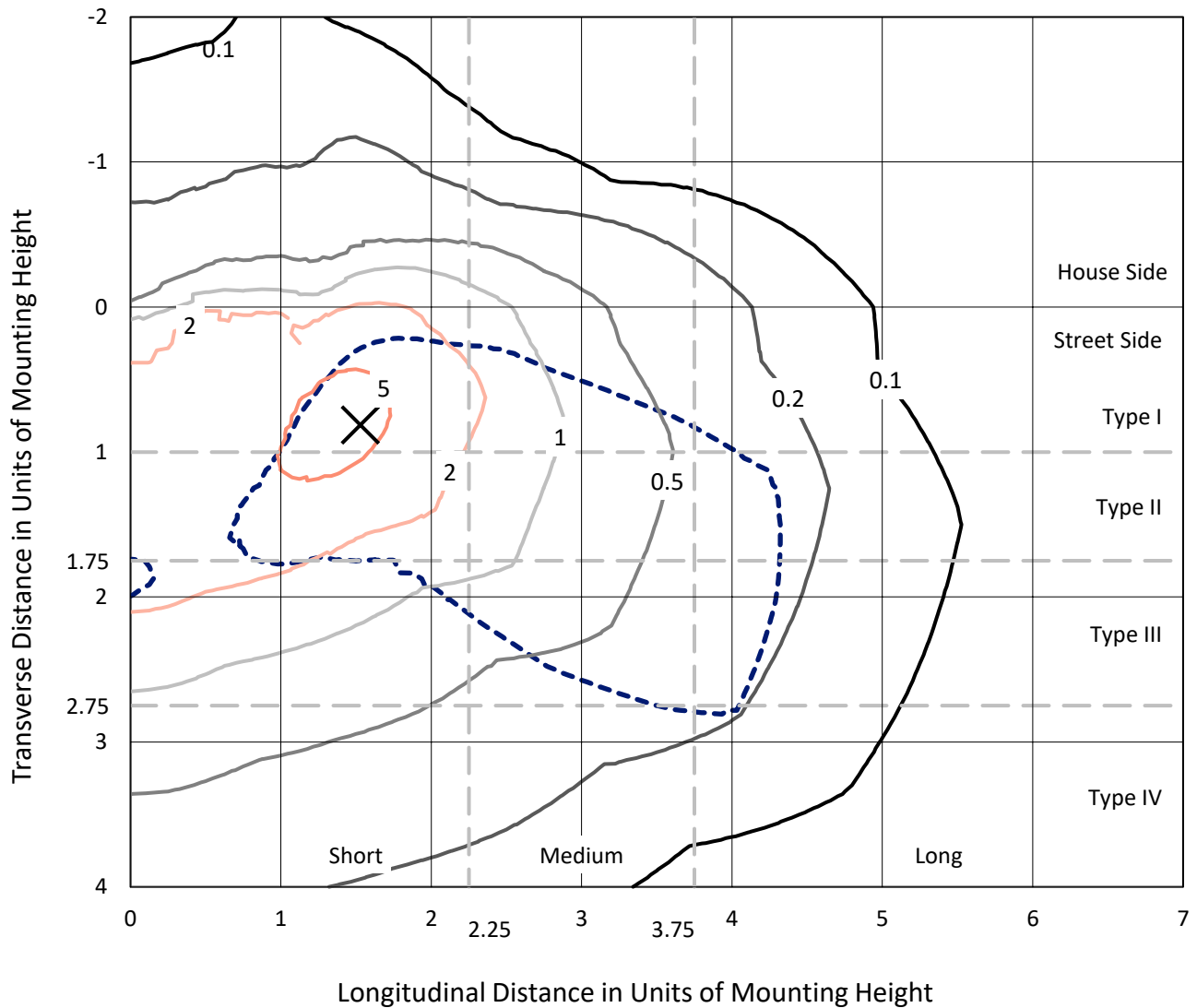
Input Watts (W): 62.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

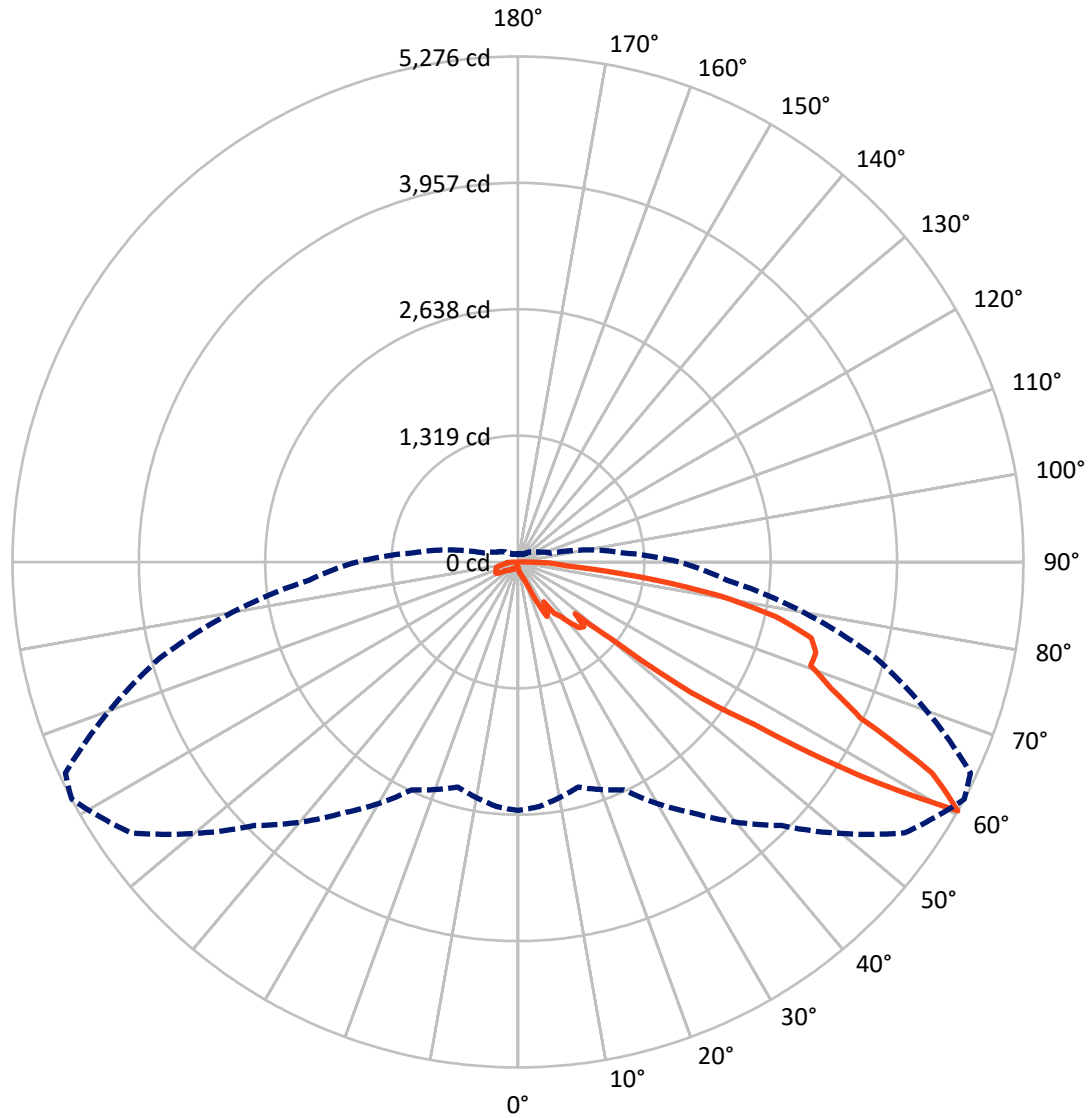
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.6 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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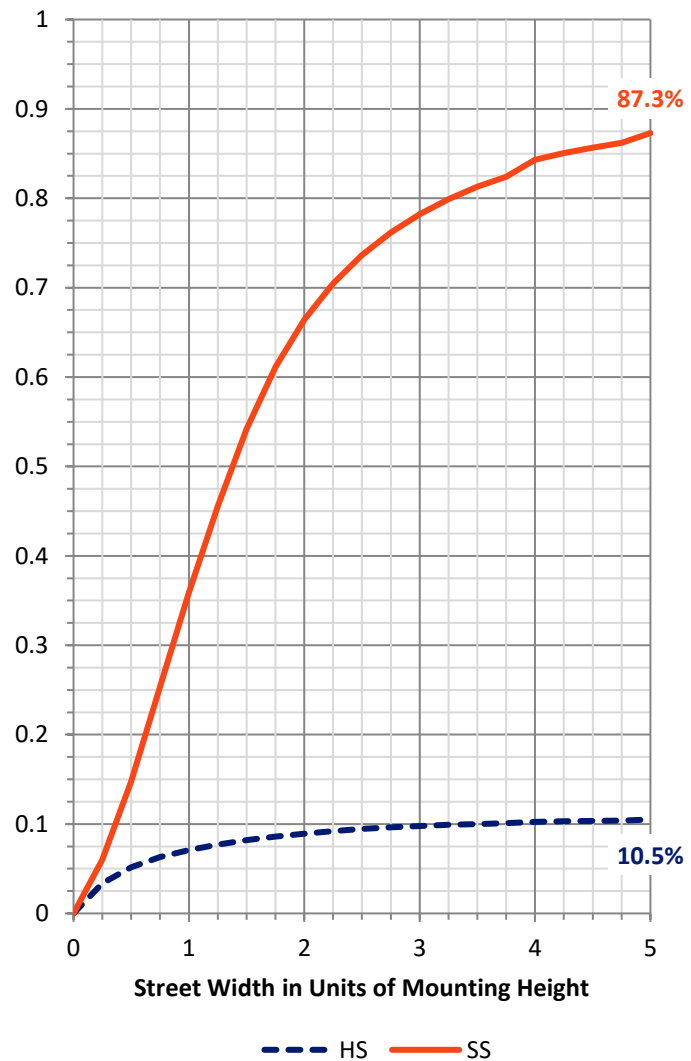
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	571.2	0.0	571.2
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	4661.8	0.0	4661.8
	% Fixture	89.1	0.0	89.1
Total	Lumens	5233.0	0.0	5233.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	0.1
10°-20°	29.7	0.6
20°-30°	111.0	2.1
30°-40°	219.3	4.2
40°-50°	379.4	7.3
50°-60°	1123.6	21.5
60°-70°	1660.0	31.7
70°-80°	1331.4	25.4
80°-90°	371.5	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°	5233.0	100.0
0°-180°	5233.0	100.0

Coefficient of Utilization



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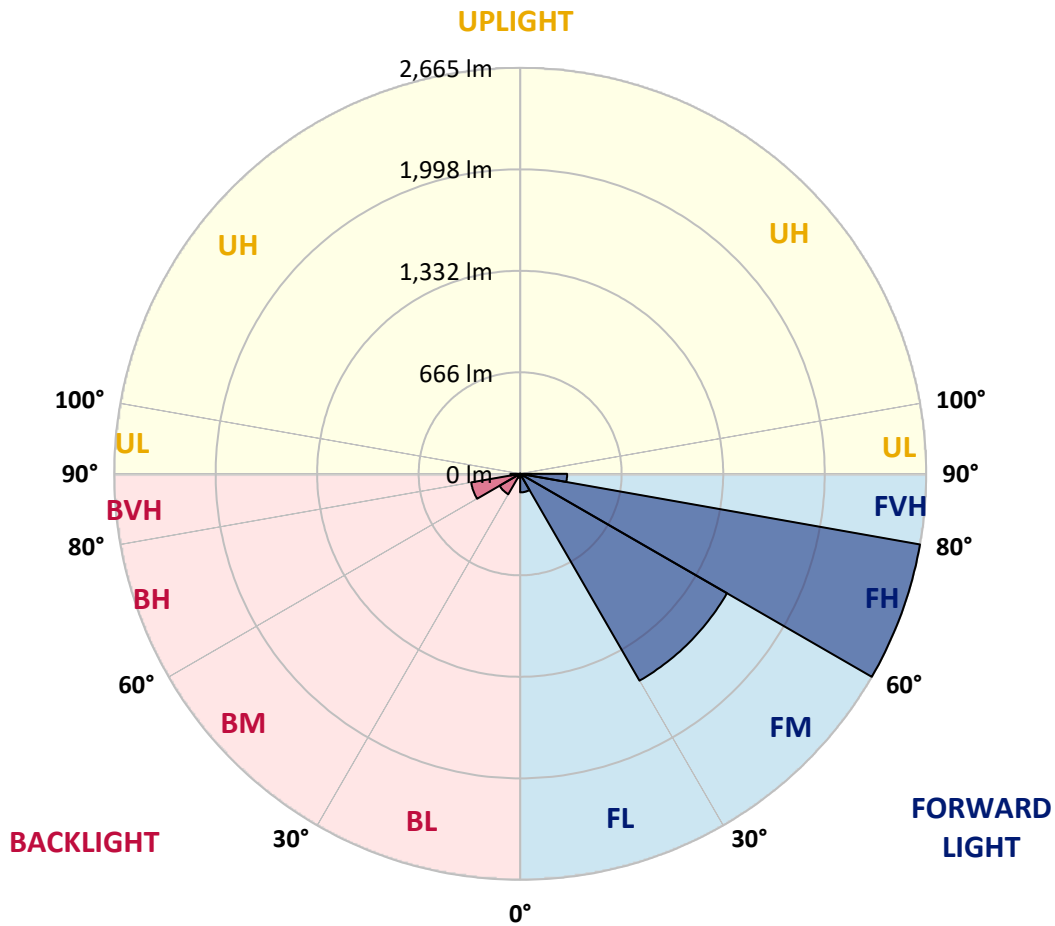
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	122.2	2.3			
FM (30°-60°)	1567.1	29.9			
FH (60°-80°)	2664.6	50.9			G2/5000
FVH (80°-90°)	307.8	5.9			G3/500
BL (0°-30°)	25.5	0.5	B0/110		
BM (30°-60°)	155.3	3.0	B0/220		
BH (60°-80°)	326.8	6.2	B1/500		G1/500
BVH (80°-90°)	63.7	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°	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
2.5°	87.7	86.2	83.4	80.6	79.2	77.8	76.3	74.9	73.5	69.3	66.4
5°	107.4	106.0	103.2	99.0	94.7	91.9	90.5	89.1	86.2	82.0	74.9
7.5°	121.6	121.6	121.6	118.8	114.5	108.9	104.6	101.8	99.0	93.3	86.2
10°	138.5	137.1	137.1	132.9	128.6	124.4	121.6	118.8	115.9	107.4	96.1
12.5°	151.3	149.9	148.4	144.2	142.8	138.5	137.1	131.5	128.6	118.8	104.6
15°	165.4	164.0	161.2	159.8	155.5	152.7	154.1	152.7	149.9	137.1	115.9
17.5°	181.0	179.5	178.1	178.1	178.1	175.3	173.9	171.1	168.2	148.4	123.0
20°	212.1	207.8	203.6	200.8	206.4	207.8	207.8	205.0	205.0	171.1	141.4
22.5°	270.0	265.8	263.0	241.7	250.2	289.8	302.5	288.4	291.2	224.8	155.5
25°	424.1	410.0	402.9	405.7	429.8	473.6	480.7	463.7	472.2	349.2	248.8
27.5°	496.2	499.0	554.2	610.7	617.8	640.4	678.6	643.2	624.9	446.7	311.0
30°	506.1	511.8	613.6	658.8	641.8	630.5	715.3	612.1	581.0	422.7	342.1
32.5°	466.5	492.0	600.8	619.2	579.6	517.4	579.6	493.4	483.5	367.6	325.2
35°	541.5	554.2	603.7	533.0	520.3	596.6	756.3	663.0	640.4	453.8	312.4
37.5°	656.0	651.7	746.5	801.6	781.8	704.0	787.5	716.8	698.4	571.1	446.7
40°	801.6	791.7	906.2	931.7	913.3	909.0	1019.3	829.9	794.5	637.6	530.2
42.5°	842.6	845.4	918.9	981.1	967.0	965.6	1131.0	935.9	882.2	644.7	582.5
45°	861.0	876.5	1017.9	979.7	993.9	968.4	1115.4	964.2	918.9	716.8	685.7
47.5°	747.9	756.3	951.4	952.9	773.3	779.0	910.4	803.0	770.5	561.3	590.9
50°	965.6	964.2	1034.9	978.3	896.3	1037.7	1303.5	1262.5	1238.4	842.6	656.0
52.5°	1396.8	1381.2	1488.7	1577.7	1560.8	1887.3	2283.2	2266.2	2180.0	1652.7	1036.3
55°	1837.9	1830.8	1949.5	2263.4	2414.7	2721.4	3106.0	2998.5	2966.0	2434.5	1628.6
57.5°	2201.2	2202.6	2240.8	2510.8	2819.0	3412.8	4078.6	4204.4	4138.0	3142.7	1979.2
60°	2592.8	2561.7	2431.6	2623.9	3200.7	3890.6	4929.7	5276.1	5212.4	3866.6	2191.3
62.5°	2619.7	2588.5	2366.6	2561.7	3002.8	3637.5	4570.6	4851.9	4925.5	4063.1	2254.9
65°	2500.9	2462.7	2188.5	2334.1	2513.6	2898.2	4041.9	3930.2	4036.2	4002.3	2253.5
67.5°	2369.4	2338.3	2081.0	2202.6	2341.1	2598.4	3804.4	3525.9	3634.7	3764.8	2359.5
70°	2236.5	2192.7	1984.9	2116.4	2287.4	2461.3	3503.2	3241.7	3213.4	3189.4	2253.5
72.5°	2213.9	2180.0	1959.4	2051.3	2245.0	2373.7	3453.8	3253.0	3224.7	3076.3	2061.2
75°	2041.4	2038.6	1826.5	1912.8	2146.0	2226.6	3316.6	3162.5	3103.1	2912.3	1813.8
77.5°	1648.4	1627.2	1473.1	1563.6	1774.2	1885.9	2854.3	2754.0	2720.0	2541.9	1500.0
80°	1108.4	1090.0	1023.5	1075.9	1272.4	1369.9	2141.8	2133.3	2107.9	1990.5	1108.4
82.5°	630.5	661.6	599.4	623.5	691.3	811.5	1331.7	1273.8	1255.4	1172.0	629.1
85°	354.8	347.8	323.7	320.9	374.6	369.0	575.4	493.4	513.2	443.9	299.7
87.5°	255.9	261.5	236.1	236.1	261.5	258.7	361.9	340.7	337.9	316.7	214.9
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°	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
2.5°	65.0	63.6	59.4	55.1	48.1	41.0	36.8	39.6	41.0	42.4	42.4
5°	70.7	67.9	59.4	50.9	42.4	35.3	29.7	26.9	26.9	28.3	28.3
7.5°	83.4	79.2	67.9	58.0	46.7	39.6	32.5	28.3	25.4	25.4	25.4
10°	90.5	86.2	73.5	62.2	50.9	42.4	35.3	29.7	26.9	25.4	25.4
12.5°	97.5	91.9	79.2	66.4	53.7	43.8	36.8	31.1	29.7	29.7	29.7
15°	106.0	97.5	82.0	67.9	55.1	45.2	36.8	32.5	31.1	31.1	31.1
17.5°	114.5	106.0	87.7	69.3	56.5	45.2	38.2	32.5	31.1	32.5	32.5
20°	128.6	113.1	87.7	70.7	56.5	45.2	38.2	32.5	32.5	32.5	32.5
22.5°	135.7	123.0	93.3	72.1	58.0	46.7	38.2	32.5	32.5	32.5	32.5
25°	209.2	155.5	97.5	74.9	59.4	48.1	38.2	33.9	32.5	33.9	33.9
27.5°	263.0	219.1	111.7	79.2	60.8	49.5	39.6	33.9	33.9	35.3	35.3
30°	292.6	250.2	121.6	86.2	65.0	50.9	41.0	35.3	35.3	35.3	35.3
32.5°	278.5	226.2	123.0	94.7	72.1	53.7	42.4	36.8	36.8	36.8	36.8
35°	241.7	186.6	120.2	96.1	76.3	59.4	45.2	38.2	38.2	36.8	36.8
37.5°	337.9	234.7	124.4	96.1	79.2	63.6	49.5	41.0	39.6	38.2	38.2
40°	400.1	261.5	137.1	103.2	79.2	65.0	52.3	45.2	42.4	41.0	39.6
42.5°	443.9	287.0	147.0	113.1	87.7	67.9	53.7	49.5	45.2	42.4	42.4
45°	507.5	304.0	159.8	124.4	96.1	74.9	58.0	50.9	49.5	46.7	45.2
47.5°	463.7	309.6	172.5	137.1	106.0	82.0	63.6	55.1	53.7	50.9	49.5
50°	476.4	301.1	176.7	145.6	115.9	87.7	69.3	60.8	58.0	55.1	55.1
52.5°	650.3	398.7	193.7	149.9	120.2	96.1	74.9	66.4	63.6	60.8	60.8
55°	1061.7	610.7	238.9	165.4	124.4	99.0	80.6	73.5	69.3	66.4	65.0
57.5°	1386.9	862.4	302.5	202.2	148.4	104.6	83.4	80.6	77.8	72.1	70.7
60°	1682.3	1092.8	356.3	243.2	186.6	135.7	96.1	89.1	87.7	79.2	76.3
62.5°	1922.7	1283.7	400.1	265.8	213.5	175.3	131.5	110.3	99.0	89.1	86.2
65°	2010.3	1347.3	417.1	270.0	220.5	195.1	165.4	149.9	117.3	101.8	99.0
67.5°	2044.3	1333.2	425.5	261.5	214.9	195.1	173.9	175.3	142.8	113.1	108.9
70°	1977.8	1278.0	421.3	253.1	206.4	189.4	169.6	164.0	148.4	121.6	115.9
72.5°	1828.0	1227.1	419.9	251.6	203.6	182.4	156.9	140.0	127.2	120.2	117.3
75°	1678.1	1193.2	414.2	250.2	199.3	172.5	142.8	121.6	104.6	106.0	108.9
77.5°	1425.0	1053.2	383.1	231.9	179.5	149.9	123.0	107.4	94.7	93.3	93.3
80°	1077.3	781.8	313.8	193.7	147.0	121.6	101.8	96.1	89.1	86.2	84.8
82.5°	596.6	411.4	202.2	144.2	115.9	94.7	86.2	86.2	82.0	77.8	77.8
85°	272.9	230.4	149.9	120.2	99.0	82.0	74.9	74.9	70.7	66.4	65.0
87.5°	212.1	182.4	127.2	111.7	96.1	80.6	72.1	72.1	67.9	65.0	65.0
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)