

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: P588597

Luminaire Tested: **ARC-CA6-120-760-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588597
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-CA6-120-760-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: 5135 lumens
Efficiency: N/A
Efficacy: 85.9 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

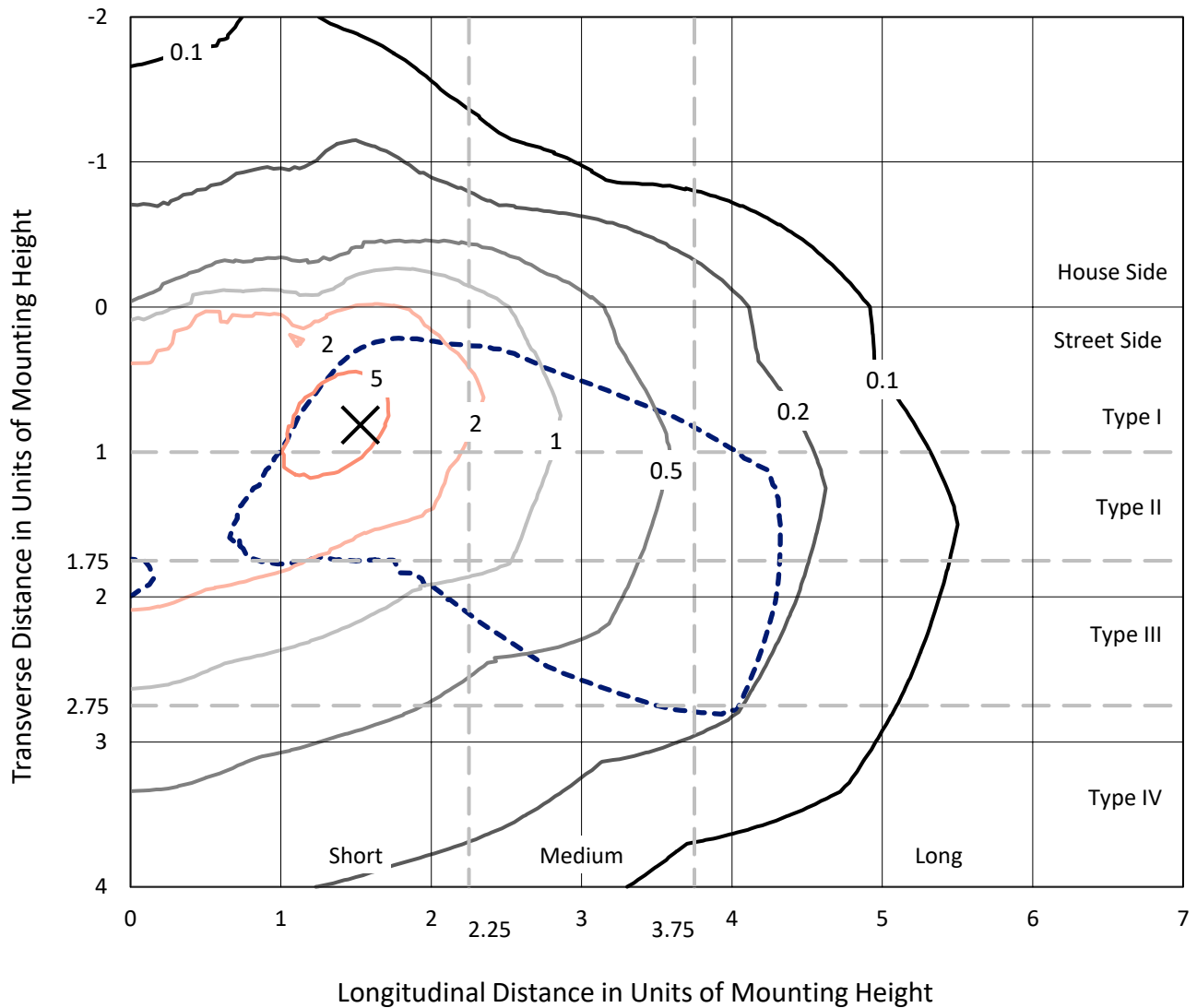
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

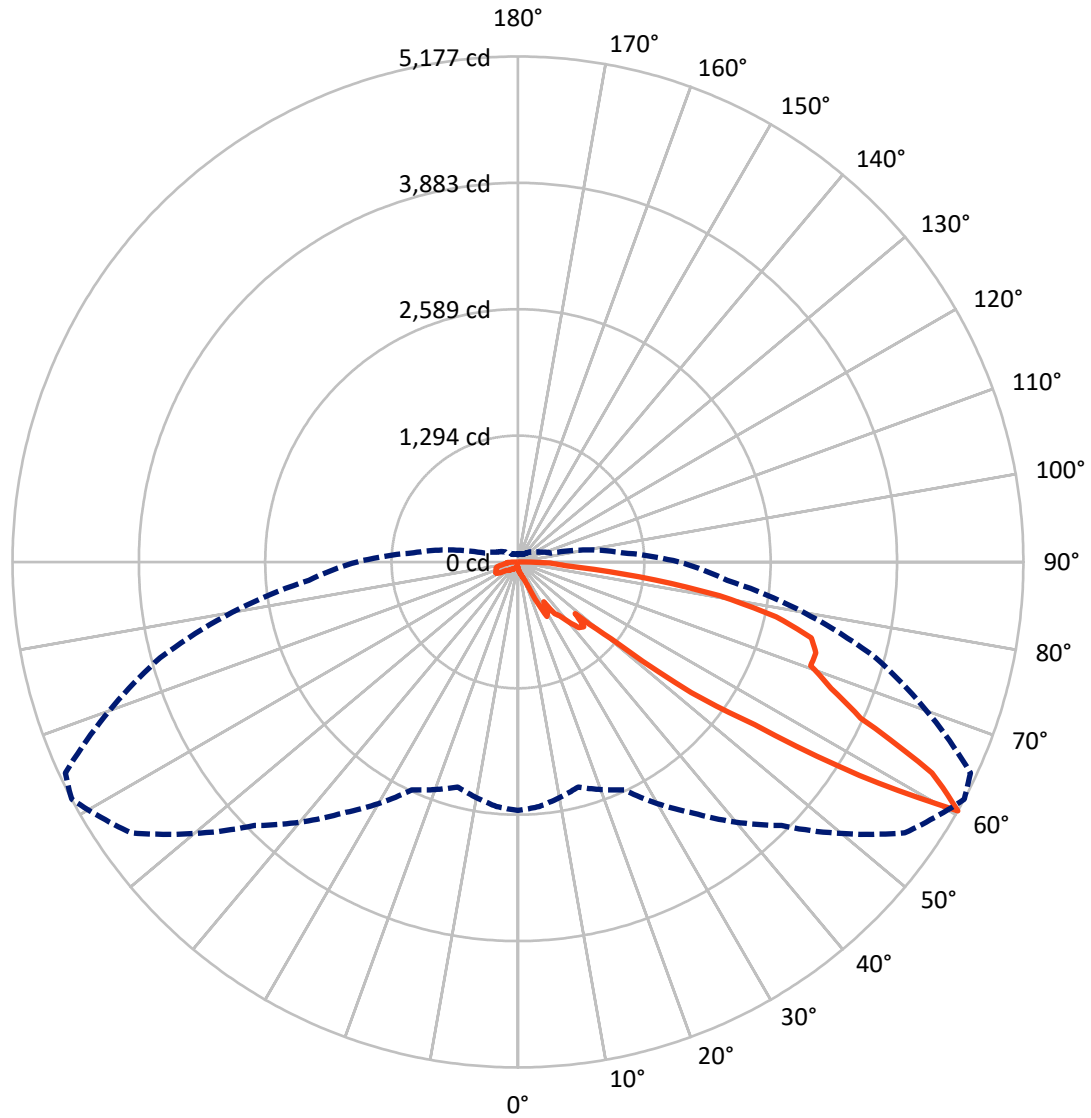
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.5 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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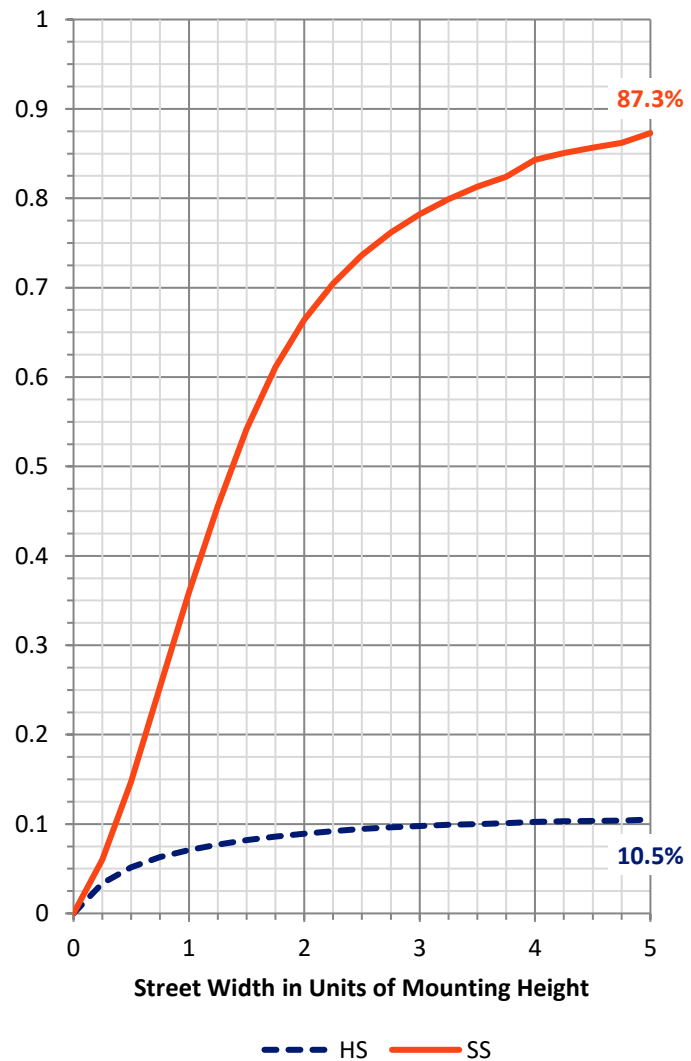
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	560.5	0.0	560.5
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	4574.5	0.0	4574.5
	% Fixture	89.1	0.0	89.1
Total	Lumens	5135.0	0.0	5135.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.9	0.1
10°-20°	29.2	0.6
20°-30°	108.9	2.1
30°-40°	215.2	4.2
40°-50°	372.3	7.3
50°-60°	1102.6	21.5
60°-70°	1628.9	31.7
70°-80°	1306.5	25.4
80°-90°	364.6	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°	5135.0	100.0
0°-180°	5135.0	100.0

Coefficient of Utilization



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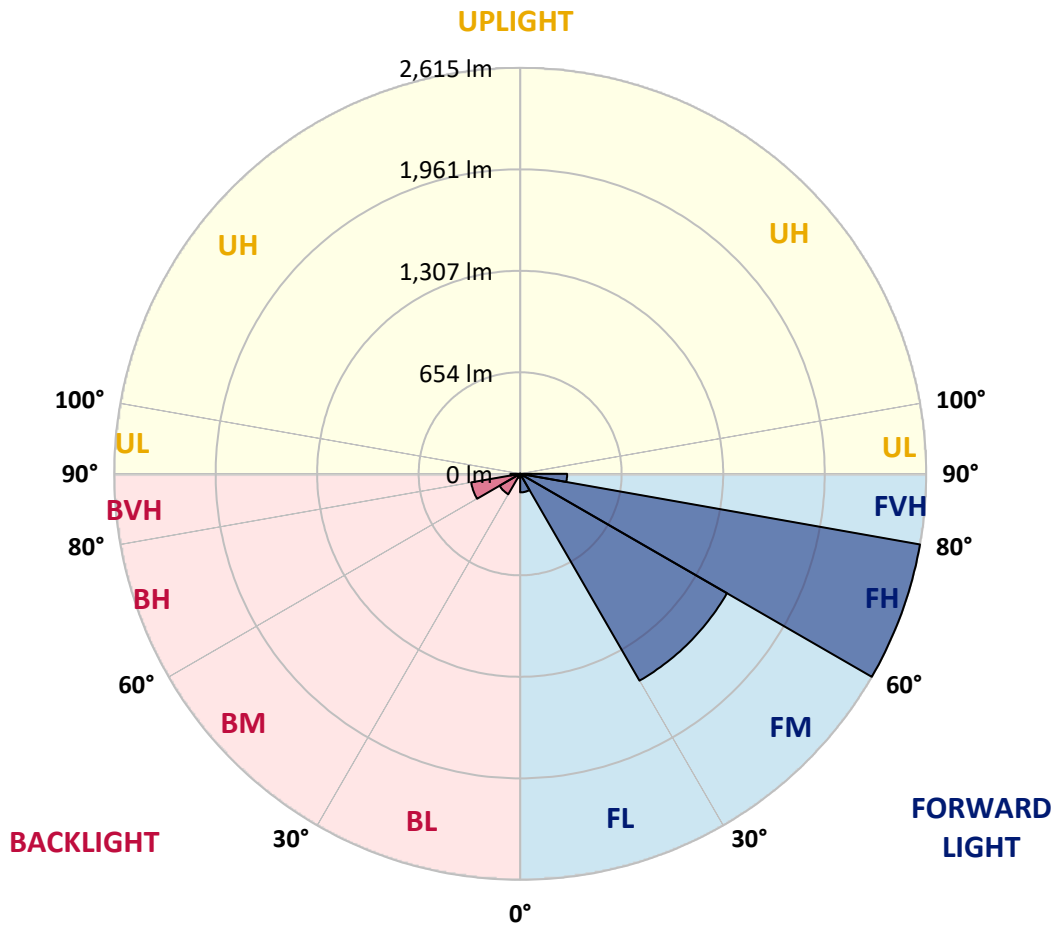
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	120.0	2.3			
FM (30°-60°)	1537.7	29.9			
FH (60°-80°)	2614.7	50.9			G2/5000
FVH (80°-90°)	302.1	5.9			G3/500
BL (0°-30°)	25.0	0.5	B0/110		
BM (30°-60°)	152.4	3.0	B0/220		
BH (60°-80°)	320.6	6.2	B1/500		G1/500
BVH (80°-90°)	62.5	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°	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
2.5°	86.0	84.6	81.8	79.1	77.7	76.3	74.9	73.5	72.1	68.0	65.2
5°	105.4	104.0	101.3	97.1	92.9	90.2	88.8	87.4	84.6	80.5	73.5
7.5°	119.3	119.3	119.3	116.5	112.4	106.8	102.7	99.9	97.1	91.6	84.6
10°	136.0	134.6	134.6	130.4	126.2	122.1	119.3	116.5	113.8	105.4	94.3
12.5°	148.4	147.0	145.7	141.5	140.1	136.0	134.6	129.0	126.2	116.5	102.7
15°	162.3	160.9	158.1	156.8	152.6	149.8	151.2	149.8	147.0	134.6	113.8
17.5°	177.6	176.2	174.8	174.8	174.8	172.0	170.6	167.9	165.1	145.7	120.7
20°	208.1	203.9	199.8	197.0	202.5	203.9	203.9	201.2	201.2	167.9	138.7
22.5°	265.0	260.8	258.0	237.2	245.5	284.4	296.9	283.0	285.8	220.6	152.6
25°	416.2	402.3	395.4	398.1	421.7	464.7	471.7	455.0	463.3	342.7	244.2
27.5°	486.9	489.7	543.8	599.3	606.2	628.4	665.9	631.2	613.2	438.4	305.2
30°	496.6	502.2	602.1	646.5	629.8	618.7	702.0	600.7	570.2	414.8	335.7
32.5°	457.8	482.8	589.6	607.6	568.8	507.7	568.8	484.2	474.4	360.7	319.1
35°	531.3	543.8	592.4	523.0	510.5	585.4	742.2	650.6	628.4	445.3	306.6
37.5°	643.7	639.5	732.5	786.6	767.2	690.9	772.7	703.3	685.3	560.5	438.4
40°	786.6	776.9	889.2	914.2	896.2	892.0	1000.2	814.3	779.6	625.7	520.2
42.5°	826.8	829.6	901.7	962.8	948.9	947.5	1109.8	918.4	865.6	632.6	571.6
45°	844.8	860.1	998.8	961.4	975.2	950.3	1094.5	946.1	901.7	703.3	672.8
47.5°	733.9	742.2	933.6	935.0	758.8	764.4	893.4	788.0	756.1	550.7	579.9
50°	947.5	946.1	1015.5	960.0	879.5	1018.2	1279.1	1238.8	1215.2	826.8	643.7
52.5°	1370.6	1355.4	1460.8	1548.2	1531.5	1852.0	2240.4	2223.8	2139.2	1621.7	1016.9
55°	1803.4	1796.5	1913.0	2221.0	2369.4	2670.5	3047.8	2942.4	2910.5	2388.9	1598.1
57.5°	2160.0	2161.3	2198.8	2463.8	2766.2	3348.8	4002.2	4125.7	4060.5	3083.9	1942.2
60°	2544.2	2513.7	2386.1	2574.8	3140.8	3817.7	4837.4	5177.3	5114.8	3794.2	2150.3
62.5°	2570.6	2540.1	2322.3	2513.7	2946.5	3569.4	4485.0	4761.1	4833.2	3987.0	2212.7
65°	2454.1	2416.6	2147.5	2290.4	2466.5	2843.9	3966.2	3856.6	3960.6	3927.3	2211.3
67.5°	2325.0	2294.5	2042.0	2161.3	2297.3	2549.8	3733.1	3459.8	3566.6	3694.3	2315.3
70°	2194.6	2151.6	1947.7	2076.7	2244.6	2415.2	3437.6	3181.0	3153.2	3129.7	2211.3
72.5°	2172.4	2139.2	1922.7	2012.9	2203.0	2329.2	3389.1	3192.1	3164.3	3018.7	2022.6
75°	2003.2	2000.4	1792.3	1877.0	2105.9	2184.9	3254.5	3103.3	3045.0	2857.8	1779.9
77.5°	1617.5	1596.7	1445.5	1534.3	1741.0	1850.6	2800.9	2702.4	2669.1	2494.3	1471.9
80°	1087.6	1069.6	1004.4	1055.7	1248.5	1344.3	2101.7	2093.4	2068.4	1953.3	1087.6
82.5°	618.7	649.2	588.2	611.8	678.4	796.3	1306.8	1249.9	1231.9	1150.0	617.3
85°	348.2	341.3	317.7	314.9	367.6	362.1	564.6	484.2	503.6	435.6	294.1
87.5°	251.1	256.6	231.7	231.7	256.6	253.9	355.1	334.3	331.6	310.7	210.9
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°	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
2.5°	63.8	62.4	58.3	54.1	47.2	40.2	36.1	38.8	40.2	41.6	41.6
5°	69.4	66.6	58.3	49.9	41.6	34.7	29.1	26.4	26.4	27.7	27.7
7.5°	81.8	77.7	66.6	56.9	45.8	38.8	31.9	27.7	25.0	25.0	25.0
10°	88.8	84.6	72.1	61.0	49.9	41.6	34.7	29.1	26.4	25.0	25.0
12.5°	95.7	90.2	77.7	65.2	52.7	43.0	36.1	30.5	29.1	29.1	29.1
15°	104.0	95.7	80.5	66.6	54.1	44.4	36.1	31.9	30.5	30.5	30.5
17.5°	112.4	104.0	86.0	68.0	55.5	44.4	37.5	31.9	30.5	31.9	31.9
20°	126.2	111.0	86.0	69.4	55.5	44.4	37.5	31.9	31.9	31.9	31.9
22.5°	133.2	120.7	91.6	70.8	56.9	45.8	37.5	31.9	31.9	31.9	31.9
25°	205.3	152.6	95.7	73.5	58.3	47.2	37.5	33.3	31.9	33.3	33.3
27.5°	258.0	215.0	109.6	77.7	59.7	48.6	38.8	33.3	33.3	34.7	34.7
30°	287.2	245.5	119.3	84.6	63.8	49.9	40.2	34.7	34.7	34.7	34.7
32.5°	273.3	222.0	120.7	92.9	70.8	52.7	41.6	36.1	36.1	36.1	36.1
35°	237.2	183.1	117.9	94.3	74.9	58.3	44.4	37.5	37.5	36.1	36.1
37.5°	331.6	230.3	122.1	94.3	77.7	62.4	48.6	40.2	38.8	37.5	37.5
40°	392.6	256.6	134.6	101.3	77.7	63.8	51.3	44.4	41.6	40.2	38.8
42.5°	435.6	281.6	144.3	111.0	86.0	66.6	52.7	48.6	44.4	41.6	41.6
45°	498.0	298.3	156.8	122.1	94.3	73.5	56.9	49.9	48.6	45.8	44.4
47.5°	455.0	303.8	169.2	134.6	104.0	80.5	62.4	54.1	52.7	49.9	48.6
50°	467.5	295.5	173.4	142.9	113.8	86.0	68.0	59.7	56.9	54.1	54.1
52.5°	638.1	391.2	190.1	147.0	117.9	94.3	73.5	65.2	62.4	59.7	59.7
55°	1041.8	599.3	234.4	162.3	122.1	97.1	79.1	72.1	68.0	65.2	63.8
57.5°	1360.9	846.2	296.9	198.4	145.7	102.7	81.8	79.1	76.3	70.8	69.4
60°	1650.8	1072.4	349.6	238.6	183.1	133.2	94.3	87.4	86.0	77.7	74.9
62.5°	1886.7	1259.6	392.6	260.8	209.5	172.0	129.0	108.2	97.1	87.4	84.6
65°	1972.7	1322.1	409.2	265.0	216.4	191.4	162.3	147.0	115.1	99.9	97.1
67.5°	2006.0	1308.2	417.6	256.6	210.9	191.4	170.6	172.0	140.1	111.0	106.8
70°	1940.8	1254.1	413.4	248.3	202.5	185.9	166.5	160.9	145.7	119.3	113.8
72.5°	1793.7	1204.1	412.0	246.9	199.8	179.0	154.0	137.3	124.9	117.9	115.1
75°	1646.7	1170.8	406.5	245.5	195.6	169.2	140.1	119.3	102.7	104.0	106.8
77.5°	1398.4	1033.5	375.9	227.5	176.2	147.0	120.7	105.4	92.9	91.6	91.6
80°	1057.1	767.2	308.0	190.1	144.3	119.3	99.9	94.3	87.4	84.6	83.2
82.5°	585.4	403.7	198.4	141.5	113.8	92.9	84.6	84.6	80.5	76.3	76.3
85°	267.7	226.1	147.0	117.9	97.1	80.5	73.5	73.5	69.4	65.2	63.8
87.5°	208.1	179.0	124.9	109.6	94.3	79.1	70.8	70.8	66.6	63.8	63.8
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)