

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: P588579

Luminaire Tested: **ARC-CA6-110-730-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588579
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-CA6-110-730-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: 4645 lumens
Efficiency: N/A
Efficacy: 82.2 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

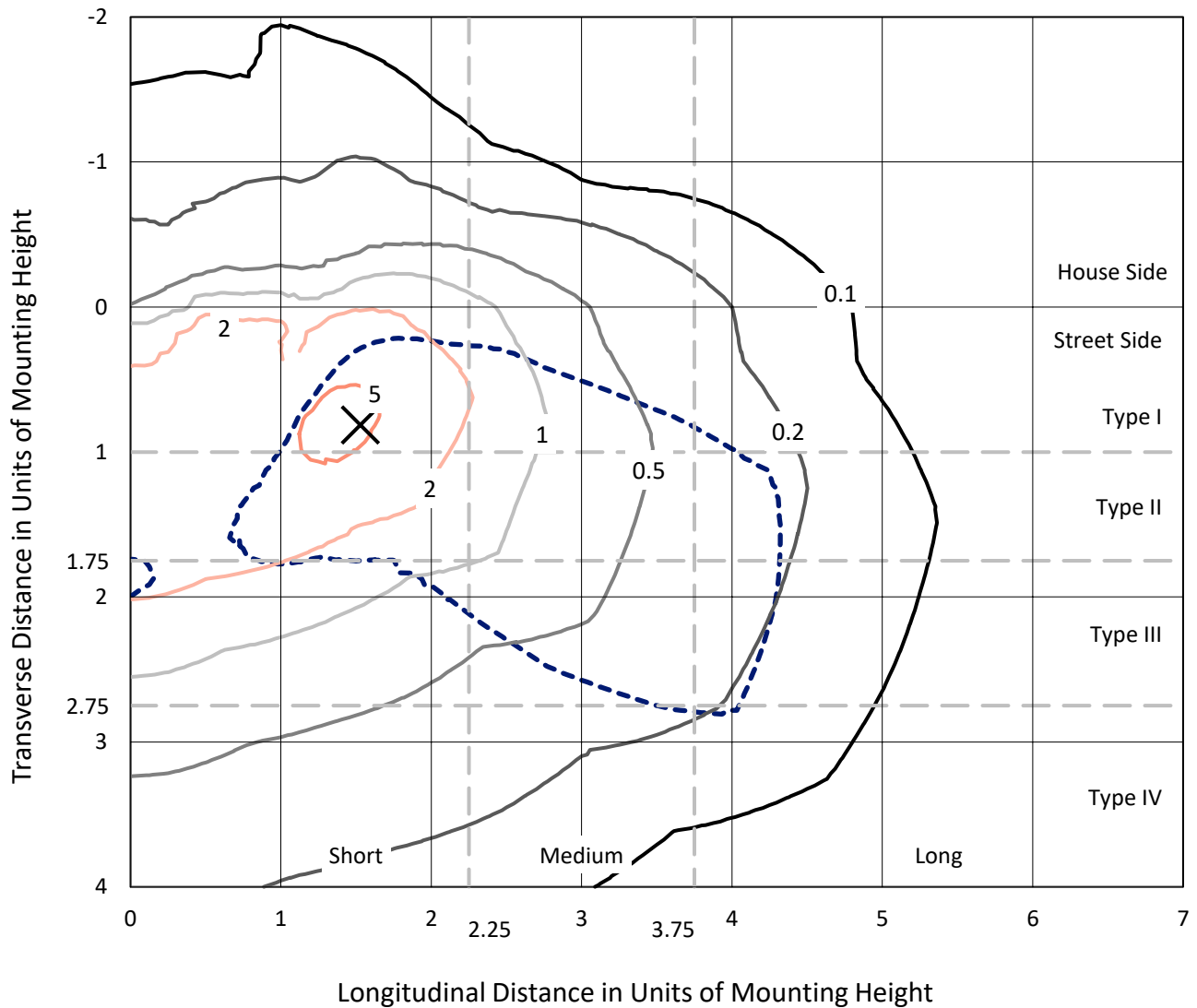
Input Watts (W): 56.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

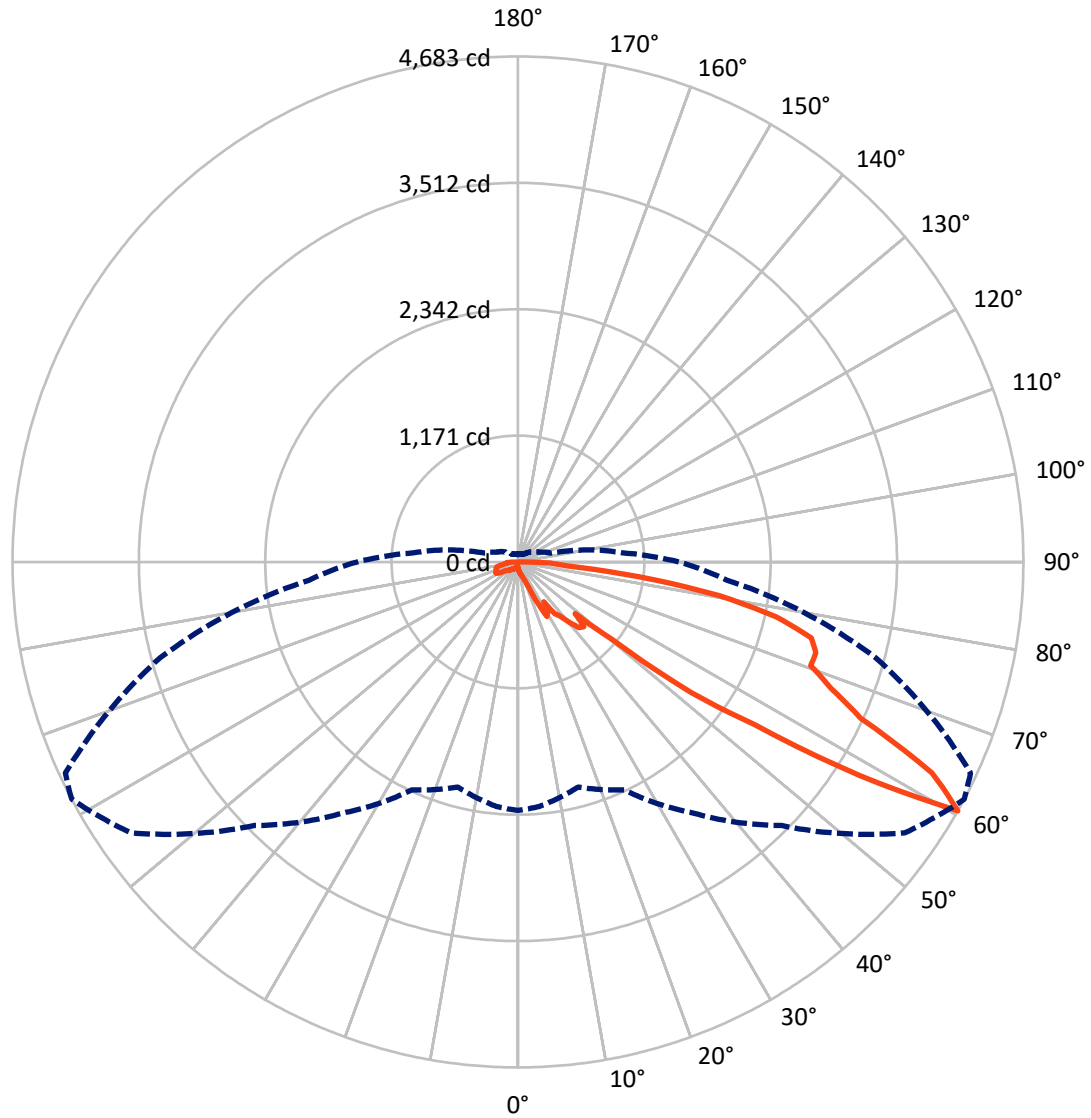
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 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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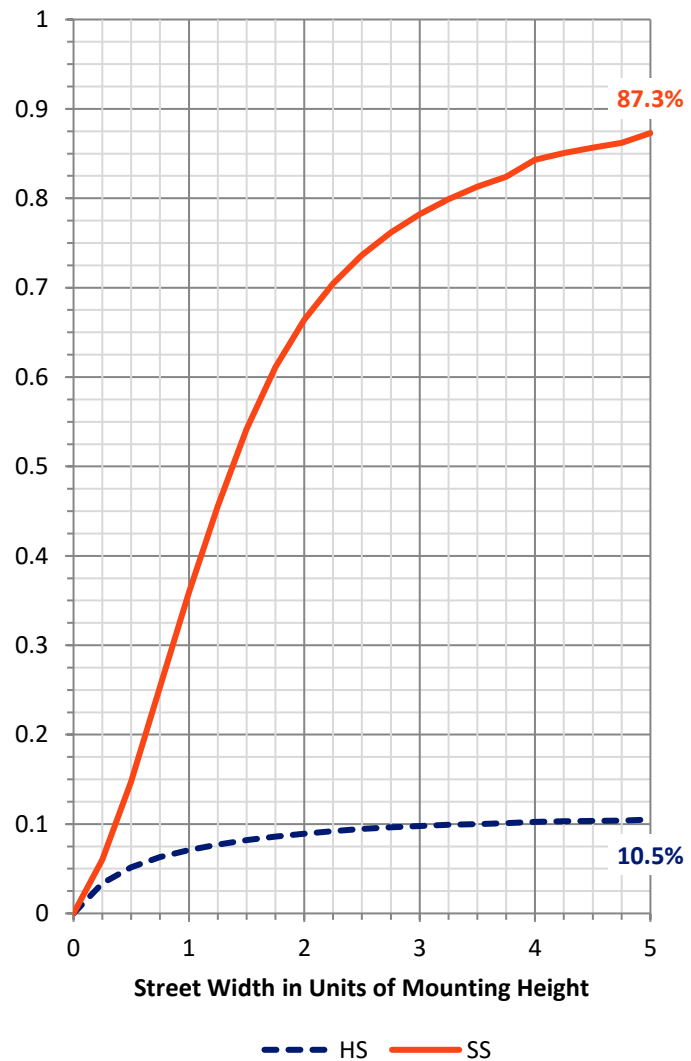
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	507.0	0.0	507.0
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	4137.9	0.0	4137.9
	% Fixture	89.1	0.0	89.1
Total	Lumens	4645.0	0.0	4645.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.1
10°-20°	26.4	0.6
20°-30°	98.5	2.1
30°-40°	194.7	4.2
40°-50°	336.8	7.3
50°-60°	997.4	21.5
60°-70°	1473.4	31.7
70°-80°	1181.8	25.4
80°-90°	329.8	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°	4645.0	100.0
0°-180°	4645.0	100.0

Coefficient of Utilization



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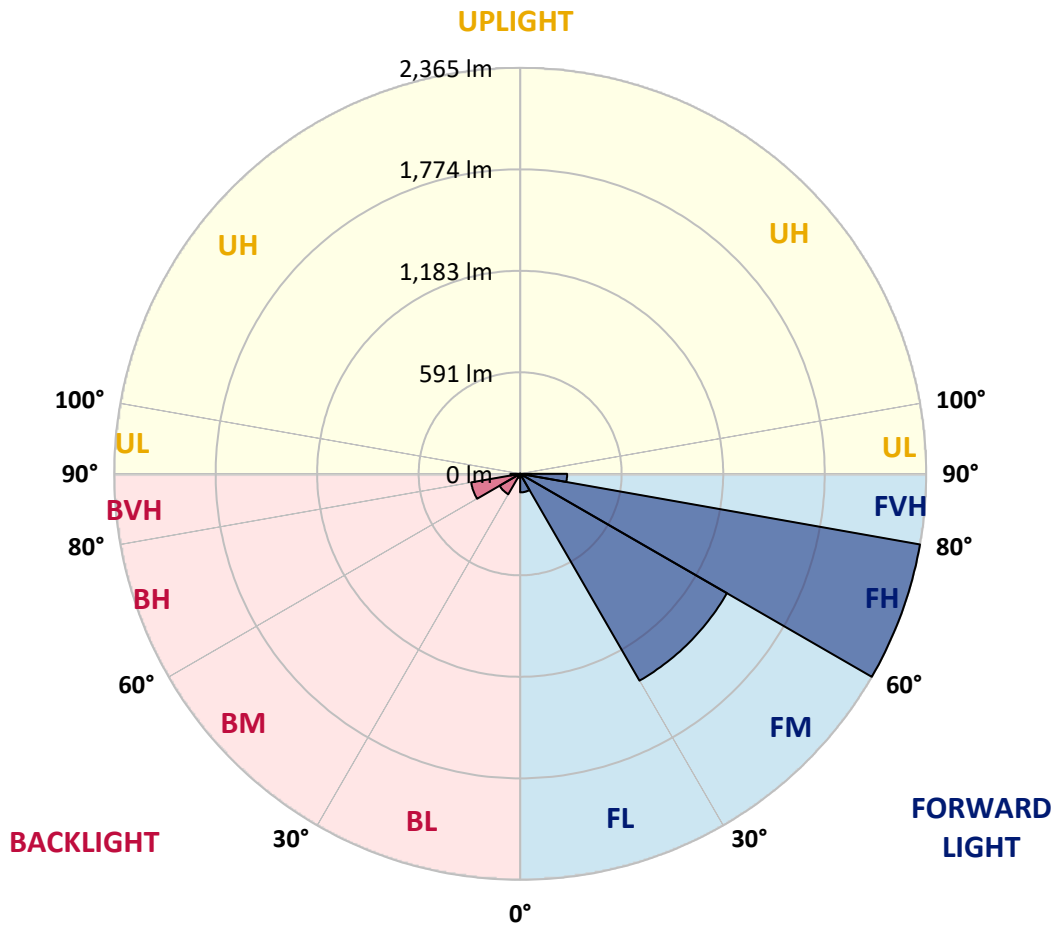
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	108.5	2.3			
FM (30°-60°)	1391.0	29.9			
FH (60°-80°)	2365.2	50.9			G2/5000
FVH (80°-90°)	273.2	5.9			G3/500
BL (0°-30°)	22.6	0.5	B0/110		
BM (30°-60°)	137.8	3.0	B0/220		
BH (60°-80°)	290.0	6.2	B1/500		G1/500
BVH (80°-90°)	56.5	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°	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
2.5°	77.8	76.5	74.0	71.5	70.3	69.0	67.8	66.5	65.3	61.5	59.0
5°	95.4	94.1	91.6	87.8	84.1	81.6	80.3	79.1	76.5	72.8	66.5
7.5°	107.9	107.9	107.9	105.4	101.6	96.6	92.9	90.4	87.8	82.8	76.5
10°	123.0	121.7	121.7	118.0	114.2	110.4	107.9	105.4	102.9	95.4	85.3
12.5°	134.3	133.0	131.8	128.0	126.7	123.0	121.7	116.7	114.2	105.4	92.9
15°	146.8	145.6	143.1	141.8	138.0	135.5	136.8	135.5	133.0	121.7	102.9
17.5°	160.6	159.4	158.1	158.1	158.1	155.6	154.4	151.8	149.3	131.8	109.2
20°	188.2	184.5	180.7	178.2	183.2	184.5	184.5	182.0	182.0	151.8	125.5
22.5°	239.7	235.9	233.4	214.6	222.1	257.3	268.5	256.0	258.5	199.5	138.0
25°	376.5	363.9	357.6	360.2	381.5	420.4	426.7	411.6	419.1	310.0	220.9
27.5°	440.5	443.0	491.9	542.1	548.4	568.5	602.3	571.0	554.7	396.5	276.1
30°	449.2	454.3	544.6	584.8	569.7	559.7	635.0	543.4	515.8	375.2	303.7
32.5°	414.1	436.7	533.3	549.6	514.5	459.3	514.5	438.0	429.2	326.3	288.6
35°	480.6	491.9	535.8	473.1	461.8	529.6	671.4	588.5	568.5	402.8	277.3
37.5°	582.3	578.5	662.6	711.5	693.9	624.9	699.0	636.2	619.9	507.0	396.5
40°	711.5	702.7	804.4	827.0	810.7	806.9	904.8	736.6	705.2	566.0	470.6
42.5°	747.9	750.4	815.7	870.9	858.3	857.1	1003.9	830.7	783.0	572.2	517.0
45°	764.2	778.0	903.5	869.6	882.2	859.6	990.1	855.8	815.7	636.2	608.6
47.5°	663.8	671.4	844.5	845.8	686.4	691.4	808.1	712.8	683.9	498.2	524.5
50°	857.1	855.8	918.6	868.4	795.6	921.1	1157.0	1120.6	1099.3	747.9	582.3
52.5°	1239.8	1226.0	1321.4	1400.4	1385.4	1675.3	2026.6	2011.6	1935.0	1467.0	919.8
55°	1631.3	1625.1	1730.5	2009.1	2143.3	2415.6	2757.0	2661.6	2632.7	2160.9	1445.6
57.5°	1953.9	1955.1	1989.0	2228.7	2502.2	3029.3	3620.3	3732.0	3673.0	2789.6	1756.8
60°	2301.5	2273.8	2158.4	2329.1	2841.1	3453.4	4375.8	4683.2	4626.8	3432.1	1945.1
62.5°	2325.3	2297.7	2100.7	2273.8	2665.4	3228.8	4057.0	4306.8	4372.0	3606.5	2001.5
65°	2219.9	2186.0	1942.6	2071.8	2231.2	2572.5	3587.7	3488.6	3582.7	3552.6	2000.3
67.5°	2103.2	2075.6	1847.2	1955.1	2078.1	2306.5	3376.9	3129.7	3226.3	3341.8	2094.4
70°	1985.2	1946.3	1761.9	1878.6	2030.4	2184.7	3109.6	2877.4	2852.3	2831.0	2000.3
72.5°	1965.1	1935.0	1739.3	1820.8	1992.8	2106.9	3065.7	2887.5	2862.4	2730.6	1829.6
75°	1812.0	1809.5	1621.3	1697.9	1904.9	1976.4	2944.0	2807.2	2754.5	2585.1	1610.0
77.5°	1463.2	1444.4	1307.6	1387.9	1574.9	1674.0	2533.6	2444.5	2414.4	2256.3	1331.4
80°	983.8	967.5	908.5	955.0	1129.4	1216.0	1901.1	1893.6	1871.0	1766.9	983.8
82.5°	559.7	587.3	532.1	553.4	613.6	720.3	1182.1	1130.6	1114.3	1040.3	558.4
85°	315.0	308.7	287.4	284.9	332.5	327.5	510.7	438.0	455.5	394.0	266.0
87.5°	227.1	232.2	209.6	209.6	232.2	229.6	321.2	302.4	299.9	281.1	190.7
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°	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
2.5°	57.7	56.5	52.7	48.9	42.7	36.4	32.6	35.1	36.4	37.6	37.6
5°	62.7	60.2	52.7	45.2	37.6	31.4	26.4	23.8	23.8	25.1	25.1
7.5°	74.0	70.3	60.2	51.5	41.4	35.1	28.9	25.1	22.6	22.6	22.6
10°	80.3	76.5	65.3	55.2	45.2	37.6	31.4	26.4	23.8	22.6	22.6
12.5°	86.6	81.6	70.3	59.0	47.7	38.9	32.6	27.6	26.4	26.4	26.4
15°	94.1	86.6	72.8	60.2	48.9	40.2	32.6	28.9	27.6	27.6	27.6
17.5°	101.6	94.1	77.8	61.5	50.2	40.2	33.9	28.9	27.6	28.9	28.9
20°	114.2	100.4	77.8	62.7	50.2	40.2	33.9	28.9	28.9	28.9	28.9
22.5°	120.5	109.2	82.8	64.0	51.5	41.4	33.9	28.9	28.9	28.9	28.9
25°	185.7	138.0	86.6	66.5	52.7	42.7	33.9	30.1	28.9	30.1	30.1
27.5°	233.4	194.5	99.1	70.3	54.0	43.9	35.1	30.1	30.1	31.4	31.4
30°	259.8	222.1	107.9	76.5	57.7	45.2	36.4	31.4	31.4	31.4	31.4
32.5°	247.2	200.8	109.2	84.1	64.0	47.7	37.6	32.6	32.6	32.6	32.6
35°	214.6	165.6	106.7	85.3	67.8	52.7	40.2	33.9	33.9	32.6	32.6
37.5°	299.9	208.3	110.4	85.3	70.3	56.5	43.9	36.4	35.1	33.9	33.9
40°	355.1	232.2	121.7	91.6	70.3	57.7	46.4	40.2	37.6	36.4	35.1
42.5°	394.0	254.7	130.5	100.4	77.8	60.2	47.7	43.9	40.2	37.6	37.6
45°	450.5	269.8	141.8	110.4	85.3	66.5	51.5	45.2	43.9	41.4	40.2
47.5°	411.6	274.8	153.1	121.7	94.1	72.8	56.5	48.9	47.7	45.2	43.9
50°	422.9	267.3	156.9	129.3	102.9	77.8	61.5	54.0	51.5	48.9	48.9
52.5°	577.2	353.9	171.9	133.0	106.7	85.3	66.5	59.0	56.5	54.0	54.0
55°	942.4	542.1	212.1	146.8	110.4	87.8	71.5	65.3	61.5	59.0	57.7
57.5°	1231.0	765.5	268.5	179.4	131.8	92.9	74.0	71.5	69.0	64.0	62.7
60°	1493.3	970.0	316.2	215.8	165.6	120.5	85.3	79.1	77.8	70.3	67.8
62.5°	1706.6	1139.4	355.1	235.9	189.5	155.6	116.7	97.9	87.8	79.1	76.5
65°	1784.4	1195.9	370.2	239.7	195.8	173.2	146.8	133.0	104.2	90.4	87.8
67.5°	1814.6	1183.4	377.7	232.2	190.7	173.2	154.4	155.6	126.7	100.4	96.6
70°	1755.6	1134.4	374.0	224.6	183.2	168.2	150.6	145.6	131.8	107.9	102.9
72.5°	1622.6	1089.2	372.7	223.4	180.7	161.9	139.3	124.2	112.9	106.7	104.2
75°	1489.5	1059.1	367.7	222.1	176.9	153.1	126.7	107.9	92.9	94.1	96.6
77.5°	1264.9	934.9	340.1	205.8	159.4	133.0	109.2	95.4	84.1	82.8	82.8
80°	956.2	693.9	278.6	171.9	130.5	107.9	90.4	85.3	79.1	76.5	75.3
82.5°	529.6	365.2	179.4	128.0	102.9	84.1	76.5	76.5	72.8	69.0	69.0
85°	242.2	204.5	133.0	106.7	87.8	72.8	66.5	66.5	62.7	59.0	57.7
87.5°	188.2	161.9	112.9	99.1	85.3	71.5	64.0	64.0	60.2	57.7	57.7
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)