

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: P588571

Luminaire Tested: **ARC-CA6-100-750-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588571
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-CA6-100-750-U-33-6-5-X-GHSS
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD
Light Source: (3) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4549 lumens
Efficiency: N/A
Efficacy: 87.1 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

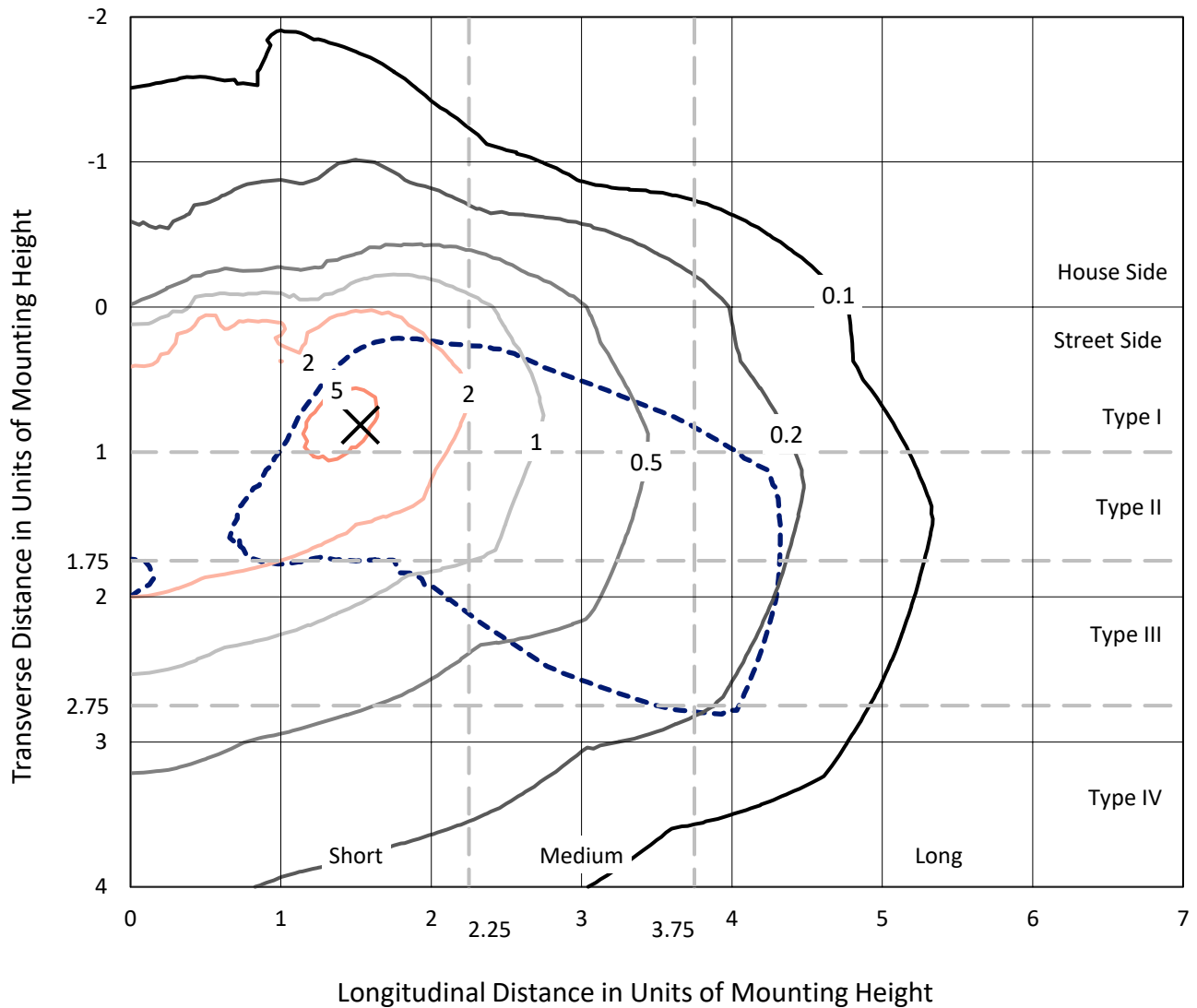
Input Watts (W): 52.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

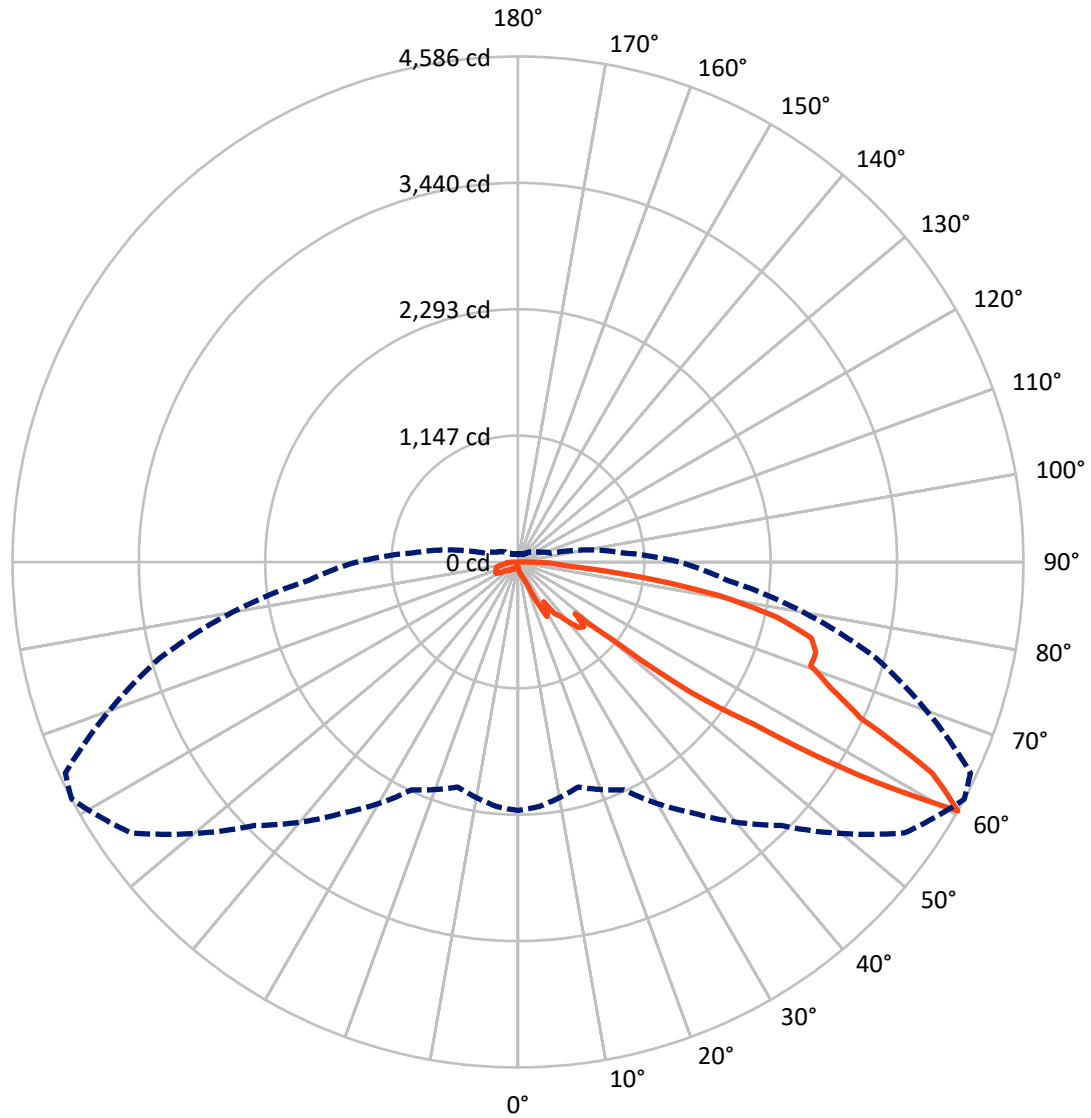
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 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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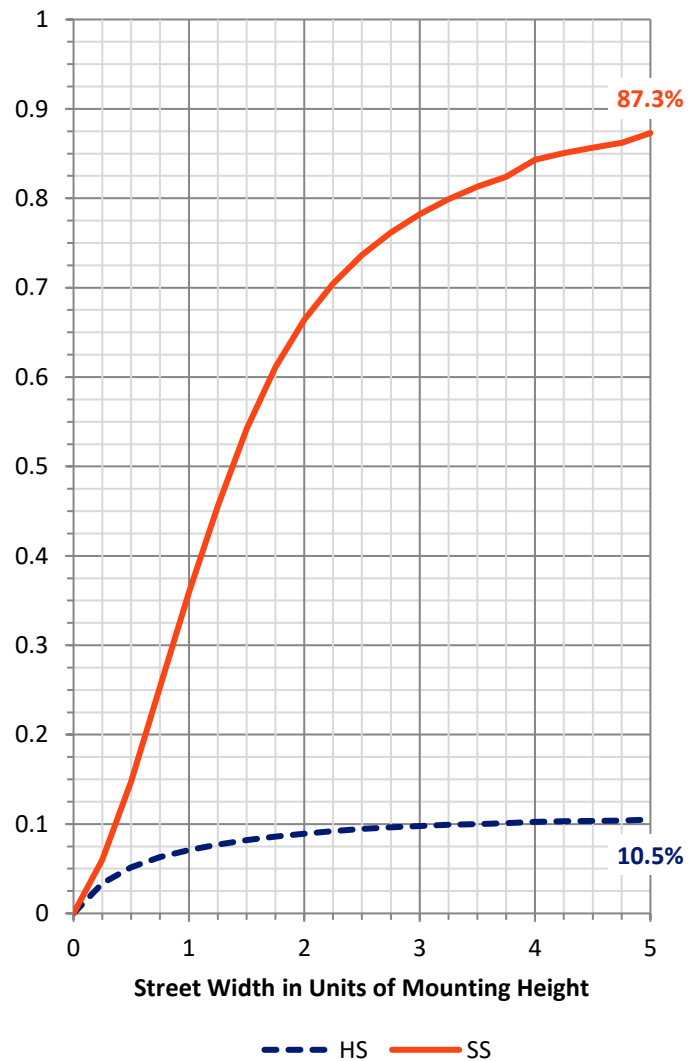
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	496.6	0.0	496.6
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	4052.4	0.0	4052.4
	% Fixture	89.1	0.0	89.1
Total	Lumens	4549.0	0.0	4549.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.1	0.1
10°-20°	25.8	0.6
20°-30°	96.5	2.1
30°-40°	190.6	4.2
40°-50°	329.8	7.3
50°-60°	976.7	21.5
60°-70°	1443.0	31.7
70°-80°	1157.4	25.4
80°-90°	323.0	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°	4549.0	100.0
0°-180°	4549.0	100.0

Coefficient of Utilization



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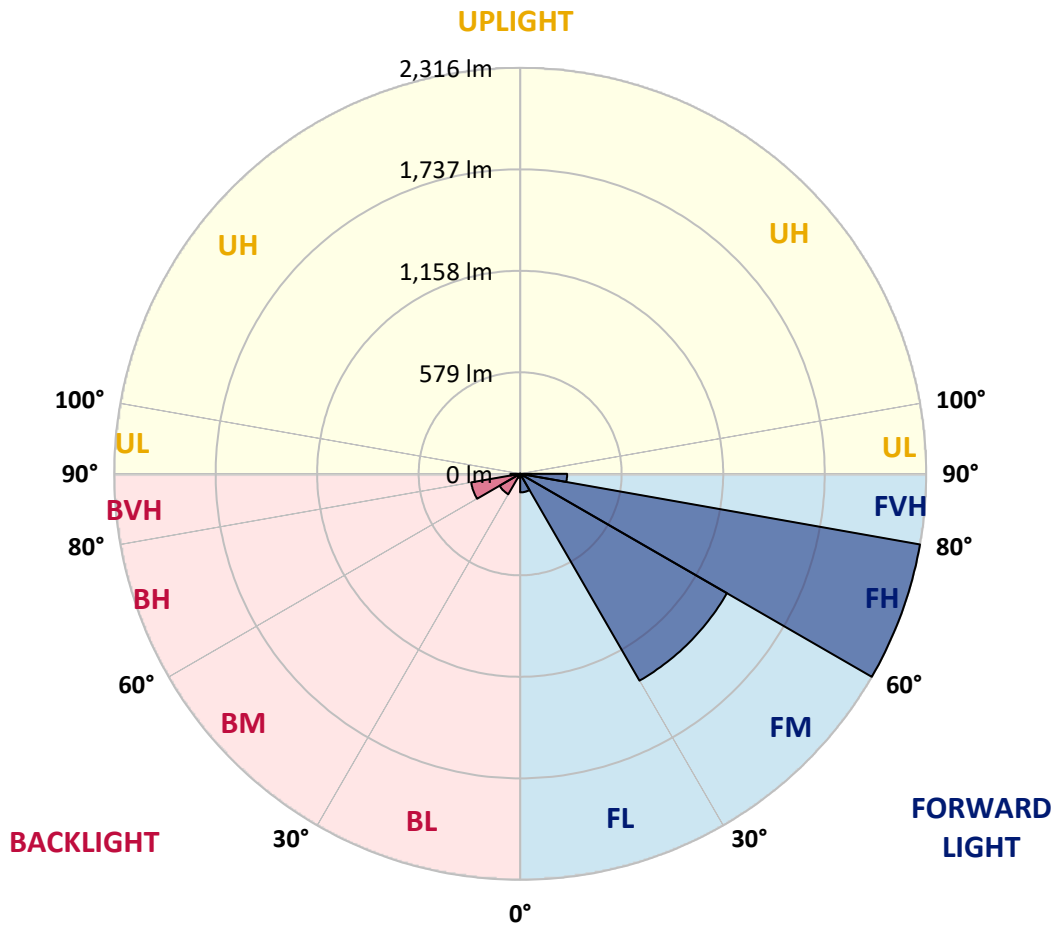
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	106.3	2.3			
FM (30°-60°)	1362.2	29.9			
FH (60°-80°)	2316.3	50.9			G2/5000
FVH (80°-90°)	267.6	5.9			G3/500
BL (0°-30°)	22.2	0.5	B0/110		
BM (30°-60°)	135.0	3.0	B0/220		
BH (60°-80°)	284.1	6.2	B1/500		G1/500
BVH (80°-90°)	55.4	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°	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
2.5°	76.2	75.0	72.5	70.0	68.8	67.6	66.4	65.1	63.9	60.2	57.8
5°	93.4	92.2	89.7	86.0	82.3	79.9	78.7	77.4	75.0	71.3	65.1
7.5°	105.7	105.7	105.7	103.2	99.5	94.6	90.9	88.5	86.0	81.1	75.0
10°	120.4	119.2	119.2	115.5	111.8	108.1	105.7	103.2	100.8	93.4	83.6
12.5°	131.5	130.3	129.0	125.4	124.1	120.4	119.2	114.3	111.8	103.2	90.9
15°	143.8	142.6	140.1	138.9	135.2	132.7	134.0	132.7	130.3	119.2	100.8
17.5°	157.3	156.1	154.8	154.8	154.8	152.4	151.2	148.7	146.2	129.0	106.9
20°	184.3	180.7	177.0	174.5	179.4	180.7	180.7	178.2	178.2	148.7	122.9
22.5°	234.7	231.0	228.6	210.1	217.5	251.9	263.0	250.7	253.2	195.4	135.2
25°	368.7	356.4	350.2	352.7	373.6	411.7	417.8	403.1	410.5	303.5	216.3
27.5°	431.4	433.8	481.7	530.9	537.0	556.7	589.9	559.2	543.2	388.3	270.4
30°	440.0	444.9	533.4	572.7	557.9	548.1	621.8	532.1	505.1	367.5	297.4
32.5°	405.6	427.7	522.3	538.3	503.9	449.8	503.9	428.9	420.3	319.5	282.7
35°	470.7	481.7	524.8	463.3	452.3	518.6	657.5	576.4	556.7	394.5	271.6
37.5°	570.2	566.5	648.9	696.8	679.6	612.0	684.5	623.1	607.1	496.5	388.3
40°	696.8	688.2	787.8	809.9	793.9	790.2	886.1	721.4	690.7	554.3	460.9
42.5°	732.5	734.9	798.8	852.9	840.6	839.4	983.2	813.6	766.9	560.4	506.3
45°	748.4	761.9	884.8	851.7	863.9	841.8	969.6	838.1	798.8	623.1	596.0
47.5°	650.1	657.5	827.1	828.3	672.2	677.1	791.4	698.0	669.8	487.9	513.7
50°	839.4	838.1	899.6	850.4	779.2	902.0	1133.1	1097.4	1076.6	732.5	570.2
52.5°	1214.2	1200.7	1294.1	1371.5	1356.8	1640.6	1984.7	1970.0	1895.0	1436.6	900.8
55°	1597.6	1591.5	1694.7	1967.5	2099.0	2365.7	2700.0	2606.6	2578.3	2116.2	1415.7
57.5°	1913.5	1914.7	1947.9	2182.6	2450.5	2966.7	3545.5	3654.9	3597.1	2731.9	1720.5
60°	2253.9	2226.9	2113.8	2280.9	2782.3	3382.1	4285.3	4586.4	4531.1	3361.2	1904.9
62.5°	2277.2	2250.2	2057.3	2226.9	2610.3	3162.1	3973.2	4217.7	4281.7	3532.0	1960.2
65°	2174.0	2140.8	1902.4	2029.0	2185.1	2519.3	3513.6	3416.5	3508.6	3479.1	1958.9
67.5°	2059.7	2032.7	1809.0	1914.7	2035.1	2258.8	3307.1	3065.0	3159.6	3272.7	2051.1
70°	1944.2	1906.1	1725.4	1839.7	1988.4	2139.6	3045.3	2818.0	2793.4	2772.5	1958.9
72.5°	1924.5	1895.0	1703.3	1783.2	1951.6	2063.4	3002.3	2827.8	2803.2	2674.2	1791.8
75°	1774.6	1772.1	1587.8	1662.8	1865.5	1935.6	2883.1	2749.2	2697.5	2531.6	1576.7
77.5°	1433.0	1414.5	1280.6	1359.2	1542.3	1639.4	2481.2	2394.0	2364.5	2209.6	1303.9
80°	963.5	947.5	889.8	935.2	1106.1	1190.8	1861.9	1854.5	1832.4	1730.4	963.5
82.5°	548.1	575.1	521.1	542.0	601.0	705.4	1157.7	1107.3	1091.3	1018.8	546.9
85°	308.5	302.3	281.4	279.0	325.7	320.8	500.2	428.9	446.1	385.9	260.5
87.5°	222.4	227.4	205.2	205.2	227.4	224.9	314.6	296.2	293.7	275.3	186.8
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°	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
2.5°	56.5	55.3	51.6	47.9	41.8	35.6	32.0	34.4	35.6	36.9	36.9
5°	61.4	59.0	51.6	44.2	36.9	30.7	25.8	23.3	23.3	24.6	24.6
7.5°	72.5	68.8	59.0	50.4	40.6	34.4	28.3	24.6	22.1	22.1	22.1
10°	78.7	75.0	63.9	54.1	44.2	36.9	30.7	25.8	23.3	22.1	22.1
12.5°	84.8	79.9	68.8	57.8	46.7	38.1	32.0	27.0	25.8	25.8	25.8
15°	92.2	84.8	71.3	59.0	47.9	39.3	32.0	28.3	27.0	27.0	27.0
17.5°	99.5	92.2	76.2	60.2	49.2	39.3	33.2	28.3	27.0	28.3	28.3
20°	111.8	98.3	76.2	61.4	49.2	39.3	33.2	28.3	28.3	28.3	28.3
22.5°	118.0	106.9	81.1	62.7	50.4	40.6	33.2	28.3	28.3	28.3	28.3
25°	181.9	135.2	84.8	65.1	51.6	41.8	33.2	29.5	28.3	29.5	29.5
27.5°	228.6	190.5	97.1	68.8	52.8	43.0	34.4	29.5	29.5	30.7	30.7
30°	254.4	217.5	105.7	75.0	56.5	44.2	35.6	30.7	30.7	30.7	30.7
32.5°	242.1	196.6	106.9	82.3	62.7	46.7	36.9	32.0	32.0	32.0	32.0
35°	210.1	162.2	104.5	83.6	66.4	51.6	39.3	33.2	33.2	32.0	32.0
37.5°	293.7	204.0	108.1	83.6	68.8	55.3	43.0	35.6	34.4	33.2	33.2
40°	347.8	227.4	119.2	89.7	68.8	56.5	45.5	39.3	36.9	35.6	34.4
42.5°	385.9	249.5	127.8	98.3	76.2	59.0	46.7	43.0	39.3	36.9	36.9
45°	441.2	264.2	138.9	108.1	83.6	65.1	50.4	44.2	43.0	40.6	39.3
47.5°	403.1	269.1	149.9	119.2	92.2	71.3	55.3	47.9	46.7	44.2	43.0
50°	414.2	261.8	153.6	126.6	100.8	76.2	60.2	52.8	50.4	47.9	47.9
52.5°	565.3	346.6	168.4	130.3	104.5	83.6	65.1	57.8	55.3	52.8	52.8
55°	922.9	530.9	207.7	143.8	108.1	86.0	70.0	63.9	60.2	57.8	56.5
57.5°	1205.6	749.7	263.0	175.7	129.0	90.9	72.5	70.0	67.6	62.7	61.4
60°	1462.4	950.0	309.7	211.4	162.2	118.0	83.6	77.4	76.2	68.8	66.4
62.5°	1671.4	1115.9	347.8	231.0	185.6	152.4	114.3	95.9	86.0	77.4	75.0
65°	1747.6	1171.2	362.5	234.7	191.7	169.6	143.8	130.3	102.0	88.5	86.0
67.5°	1777.1	1158.9	369.9	227.4	186.8	169.6	151.2	152.4	124.1	98.3	94.6
70°	1719.3	1111.0	366.2	220.0	179.4	164.7	147.5	142.6	129.0	105.7	100.8
72.5°	1589.0	1066.7	365.0	218.8	177.0	158.5	136.4	121.7	110.6	104.5	102.0
75°	1458.8	1037.2	360.1	217.5	173.3	149.9	124.1	105.7	90.9	92.2	94.6
77.5°	1238.8	915.6	333.0	201.5	156.1	130.3	106.9	93.4	82.3	81.1	81.1
80°	936.5	679.6	272.8	168.4	127.8	105.7	88.5	83.6	77.4	75.0	73.7
82.5°	518.6	357.6	175.7	125.4	100.8	82.3	75.0	75.0	71.3	67.6	67.6
85°	237.2	200.3	130.3	104.5	86.0	71.3	65.1	65.1	61.4	57.8	56.5
87.5°	184.3	158.5	110.6	97.1	83.6	70.0	62.7	62.7	59.0	56.5	56.5
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)