

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: P588607

Luminaire Tested: **ARC-CA6-130-750-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P588607  
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-CA6-130-750-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**

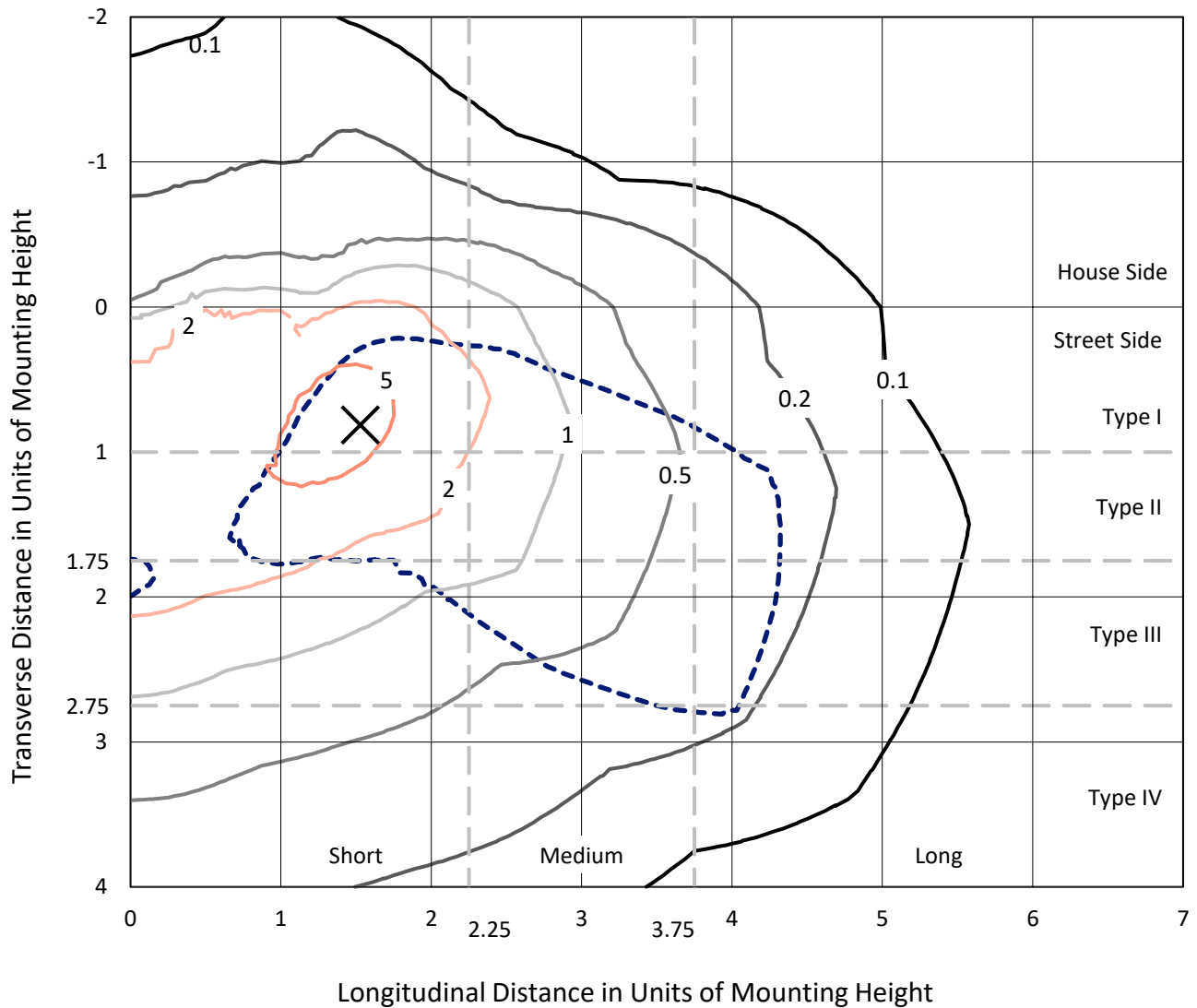
Lumens per Lamp: N/A  
Luminaire Lumens: 5454 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 0.92')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 62.6  
Input Voltage (V): 120  
Input 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

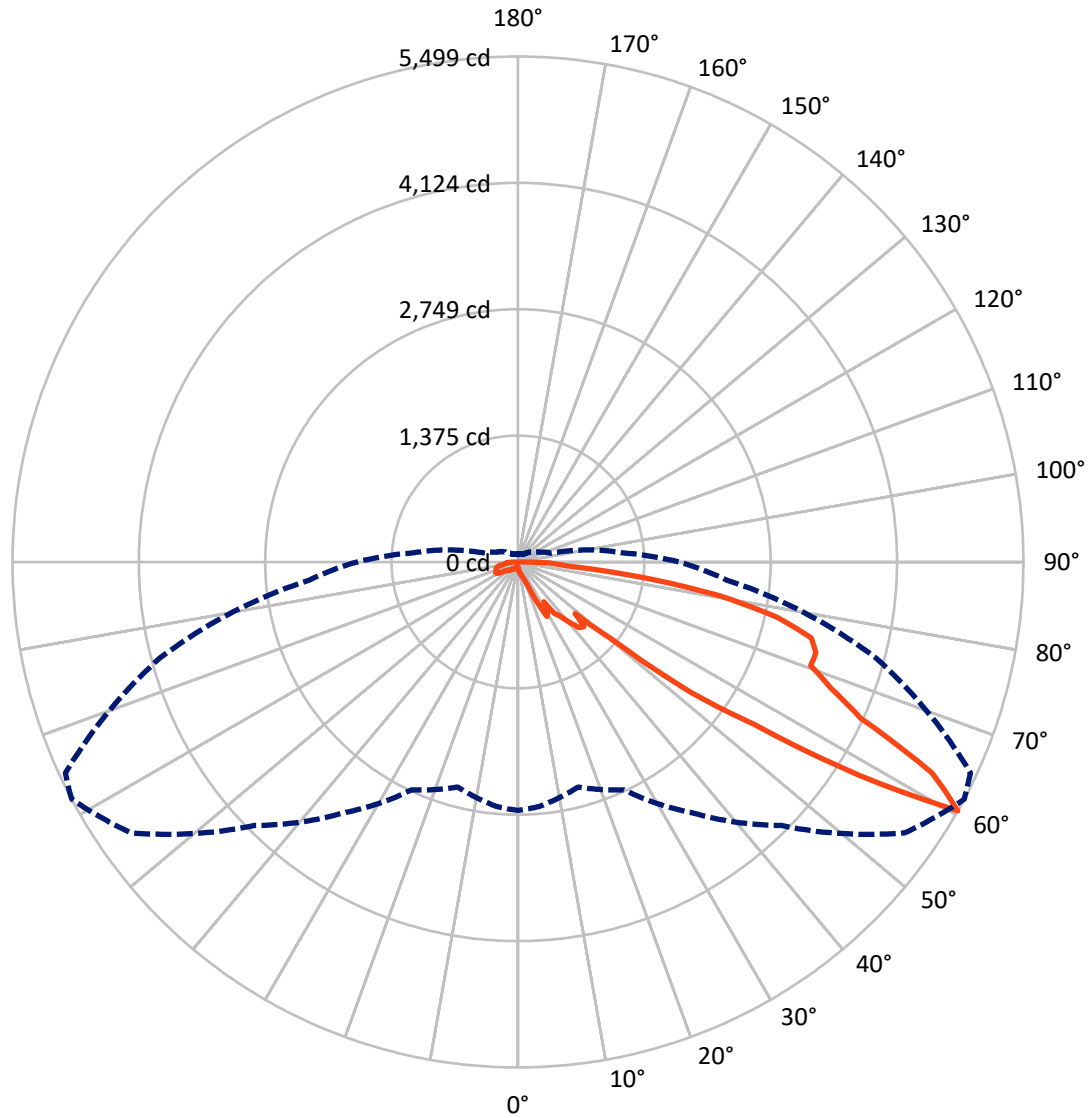
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 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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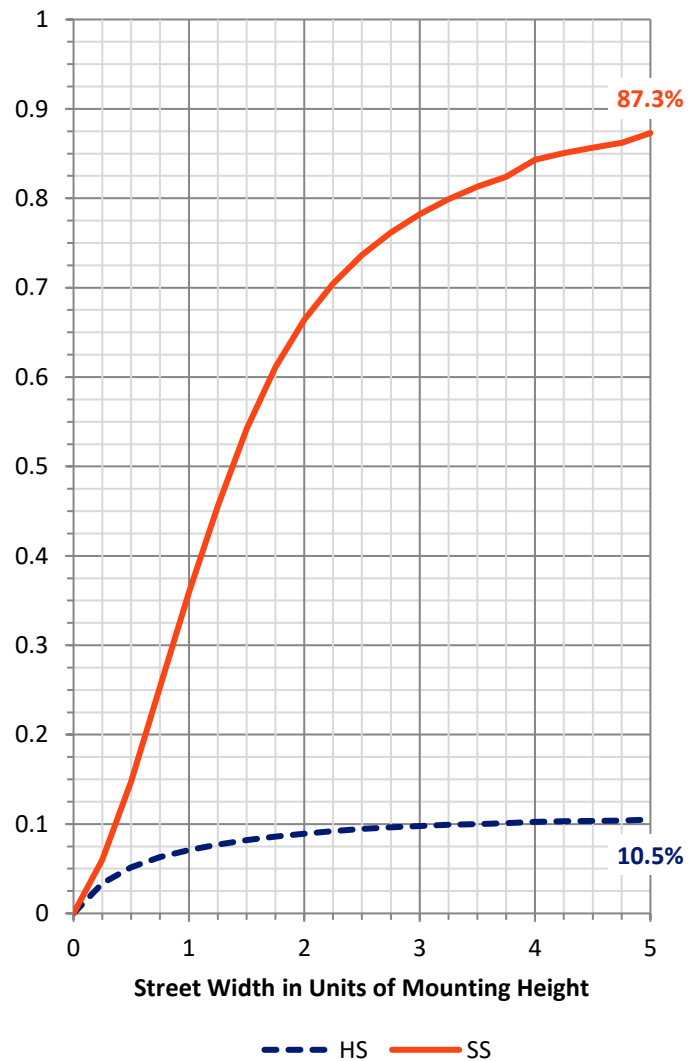
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	595.4	0.0	595.4
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	4858.7	0.0	4858.7
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	5454.0	0.0	5454.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.3	0.1
10°-20°	31.0	0.6
20°-30°	115.7	2.1
30°-40°	228.6	4.2
40°-50°	395.5	7.3
50°-60°	1171.1	21.5
60°-70°	1730.1	31.7
70°-80°	1387.7	25.4
80°-90°	387.2	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°	5454.0	100.0
0°-180°	5454.0	100.0

**Coefficient of Utilization**



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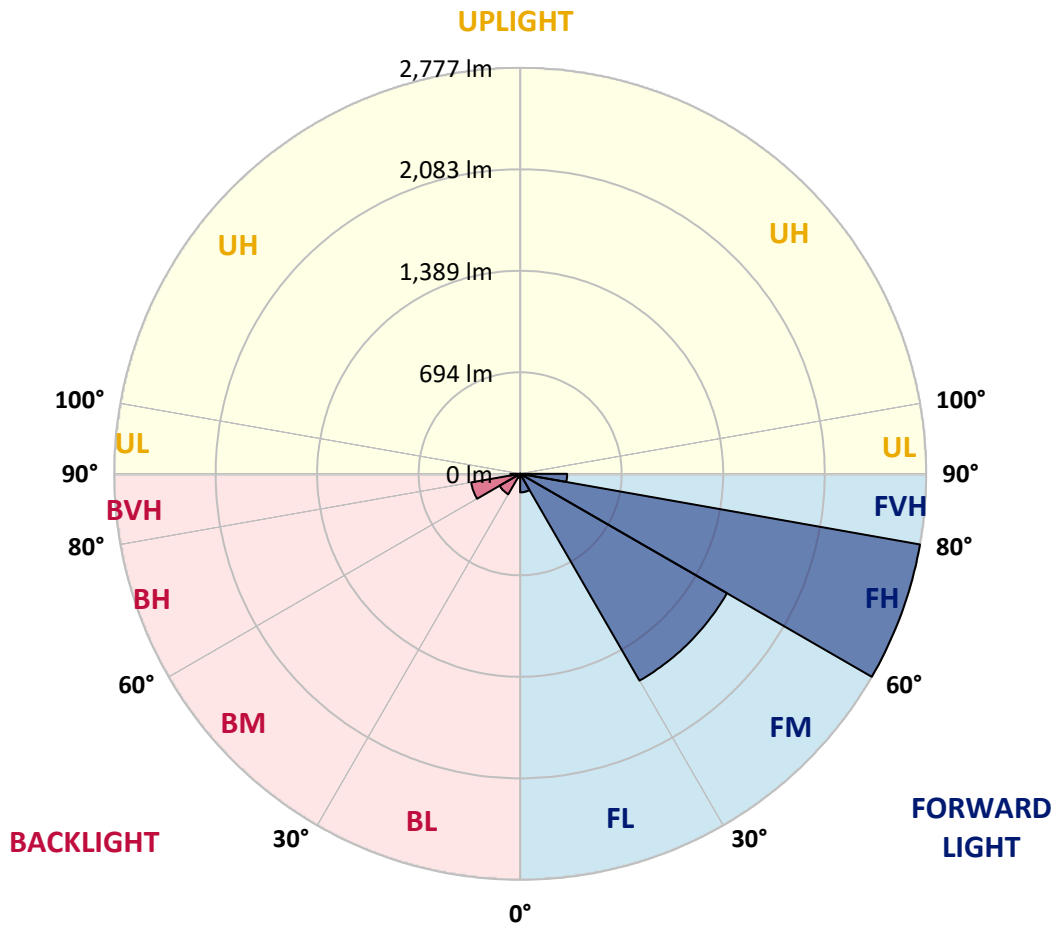
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	127.4	2.3			
FM (30°-60°)	1633.3	29.9			
FH (60°-80°)	2777.2	50.9			G2/5000
FVH (80°-90°)	320.8	5.9			G3/500
BL (0°-30°)	26.6	0.5	B0/110		
BM (30°-60°)	161.8	3.0	B0/220		
BH (60°-80°)	340.6	6.2	B1/500		G1/500
BVH (80°-90°)	66.4	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°	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
2.5°	91.4	89.9	86.9	84.0	82.5	81.0	79.6	78.1	76.6	72.2	69.3
5°	112.0	110.5	107.6	103.1	98.7	95.8	94.3	92.8	89.9	85.5	78.1
7.5°	126.7	126.7	126.7	123.8	119.3	113.5	109.0	106.1	103.1	97.2	89.9
10°	144.4	142.9	142.9	138.5	134.1	129.7	126.7	123.8	120.8	112.0	100.2
12.5°	157.7	156.2	154.7	150.3	148.8	144.4	142.9	137.0	134.1	123.8	109.0
15°	172.4	170.9	168.0	166.5	162.1	159.1	160.6	159.1	156.2	142.9	120.8
17.5°	188.6	187.1	185.7	185.7	185.7	182.7	181.2	178.3	175.3	154.7	128.2
20°	221.0	216.6	212.2	209.2	215.1	216.6	216.6	213.6	213.6	178.3	147.3
22.5°	281.4	277.0	274.1	252.0	260.8	302.1	315.3	300.6	303.5	234.3	162.1
25°	442.0	427.3	419.9	422.9	447.9	493.6	501.0	483.3	492.1	363.9	259.3
27.5°	517.2	520.1	577.6	636.5	643.9	667.5	707.3	670.4	651.3	465.6	324.2
30°	527.5	533.4	639.5	686.6	668.9	657.2	745.6	638.0	605.6	440.6	356.6
32.5°	486.2	512.8	626.2	645.4	604.1	539.3	604.1	514.2	503.9	383.1	338.9
35°	564.3	577.6	629.2	555.5	542.2	621.8	788.3	691.0	667.5	473.0	325.6
37.5°	683.7	679.3	778.0	835.4	814.8	733.8	820.7	747.0	727.9	595.3	465.6
40°	835.4	825.1	944.5	971.0	951.8	947.4	1062.3	864.9	828.1	664.5	552.5
42.5°	878.2	881.1	957.7	1022.6	1007.8	1006.4	1178.8	975.4	919.4	671.9	607.1
45°	897.3	913.5	1060.9	1021.1	1035.8	1009.3	1162.5	1004.9	957.7	747.0	714.6
47.5°	779.4	788.3	991.6	993.1	806.0	811.9	948.9	836.9	803.0	585.0	615.9
50°	1006.4	1004.9	1078.6	1019.6	934.2	1081.5	1358.5	1315.8	1290.7	878.2	683.7
52.5°	1455.8	1439.6	1551.5	1644.4	1626.7	1967.0	2379.6	2361.9	2272.0	1722.5	1080.0
55°	1915.5	1908.1	2031.9	2359.0	2516.6	2836.4	3237.1	3125.2	3091.3	2537.3	1697.4
57.5°	2294.1	2295.6	2335.4	2616.8	2938.0	3556.9	4250.9	4382.0	4312.8	3275.5	2062.8
60°	2702.3	2669.9	2534.3	2734.7	3335.9	4054.9	5137.9	5498.9	5432.6	4029.9	2283.8
62.5°	2730.3	2697.9	2466.5	2669.9	3129.6	3791.2	4763.6	5056.8	5133.5	4234.7	2350.1
65°	2606.5	2566.7	2280.9	2432.6	2619.8	3020.6	4212.6	4096.2	4206.7	4171.3	2348.7
67.5°	2469.5	2437.1	2168.9	2295.6	2440.0	2708.2	3965.0	3674.8	3788.2	3923.8	2459.2
70°	2331.0	2285.3	2068.7	2205.7	2384.0	2565.3	3651.2	3378.6	3349.1	3324.1	2348.7
72.5°	2307.4	2272.0	2042.2	2138.0	2339.8	2473.9	3599.6	3390.4	3360.9	3206.2	2148.3
75°	2127.6	2124.7	1903.7	1993.6	2236.7	2320.7	3456.7	3296.1	3234.2	3035.3	1890.4
77.5°	1718.0	1695.9	1535.3	1629.6	1849.2	1965.6	2974.9	2870.3	2834.9	2649.2	1563.3
80°	1155.2	1136.0	1066.8	1121.3	1326.1	1427.8	2232.3	2223.4	2196.9	2074.6	1155.2
82.5°	657.2	689.6	624.7	649.8	720.5	845.8	1388.0	1327.6	1308.4	1221.5	655.7
85°	369.8	362.5	337.4	334.5	390.5	384.6	599.7	514.2	534.9	462.7	312.4
87.5°	266.7	272.6	246.1	246.1	272.6	269.6	377.2	355.1	352.2	330.1	224.0
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°	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
2.5°	67.8	66.3	61.9	57.5	50.1	42.7	38.3	41.3	42.7	44.2	44.2
5°	73.7	70.7	61.9	53.0	44.2	36.8	30.9	28.0	28.0	29.5	29.5
7.5°	86.9	82.5	70.7	60.4	48.6	41.3	33.9	29.5	26.5	26.5	26.5
10°	94.3	89.9	76.6	64.8	53.0	44.2	36.8	30.9	28.0	26.5	26.5
12.5°	101.7	95.8	82.5	69.3	56.0	45.7	38.3	32.4	30.9	30.9	30.9
15°	110.5	101.7	85.5	70.7	57.5	47.2	38.3	33.9	32.4	32.4	32.4
17.5°	119.3	110.5	91.4	72.2	58.9	47.2	39.8	33.9	32.4	33.9	33.9
20°	134.1	117.9	91.4	73.7	58.9	47.2	39.8	33.9	33.9	33.9	33.9
22.5°	141.5	128.2	97.2	75.1	60.4	48.6	39.8	33.9	33.9	33.9	33.9
25°	218.1	162.1	101.7	78.1	61.9	50.1	39.8	35.4	33.9	35.4	35.4
27.5°	274.1	228.4	116.4	82.5	63.4	51.6	41.3	35.4	35.4	36.8	36.8
30°	305.0	260.8	126.7	89.9	67.8	53.0	42.7	36.8	36.8	36.8	36.8
32.5°	290.3	235.8	128.2	98.7	75.1	56.0	44.2	38.3	38.3	38.3	38.3
35°	252.0	194.5	125.2	100.2	79.6	61.9	47.2	39.8	39.8	38.3	38.3
37.5°	352.2	244.6	129.7	100.2	82.5	66.3	51.6	42.7	41.3	39.8	39.8
40°	417.0	272.6	142.9	107.6	82.5	67.8	54.5	47.2	44.2	42.7	41.3
42.5°	462.7	299.1	153.2	117.9	91.4	70.7	56.0	51.6	47.2	44.2	44.2
45°	529.0	316.8	166.5	129.7	100.2	78.1	60.4	53.0	51.6	48.6	47.2
47.5°	483.3	322.7	179.8	142.9	110.5	85.5	66.3	57.5	56.0	53.0	51.6
50°	496.5	313.8	184.2	151.8	120.8	91.4	72.2	63.4	60.4	57.5	57.5
52.5°	677.8	415.5	201.9	156.2	125.2	100.2	78.1	69.3	66.3	63.4	63.4
55°	1106.6	636.5	249.0	172.4	129.7	103.1	84.0	76.6	72.2	69.3	67.8
57.5°	1445.4	898.8	315.3	210.7	154.7	109.0	86.9	84.0	81.0	75.1	73.7
60°	1753.4	1139.0	371.3	253.4	194.5	141.5	100.2	92.8	91.4	82.5	79.6
62.5°	2003.9	1337.9	417.0	277.0	222.5	182.7	137.0	114.9	103.1	92.8	89.9
65°	2095.2	1404.2	434.7	281.4	229.9	203.3	172.4	156.2	122.3	106.1	103.1
67.5°	2130.6	1389.5	443.5	272.6	224.0	203.3	181.2	182.7	148.8	117.9	113.5
70°	2061.3	1332.0	439.1	263.7	215.1	197.4	176.8	170.9	154.7	126.7	120.8
72.5°	1905.2	1278.9	437.6	262.3	212.2	190.1	163.6	145.9	132.6	125.2	122.3
75°	1749.0	1243.6	431.7	260.8	207.8	179.8	148.8	126.7	109.0	110.5	113.5
77.5°	1485.2	1097.7	399.3	241.6	187.1	156.2	128.2	112.0	98.7	97.2	97.2
80°	1122.8	814.8	327.1	201.9	153.2	126.7	106.1	100.2	92.8	89.9	88.4
82.5°	621.8	428.8	210.7	150.3	120.8	98.7	89.9	89.9	85.5	81.0	81.0
85°	284.4	240.2	156.2	125.2	103.1	85.5	78.1	78.1	73.7	69.3	67.8
87.5°	221.0	190.1	132.6	116.4	100.2	84.0	75.1	75.1	70.7	67.8	67.8
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)