

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: P588573

Luminaire Tested: **ARC-CA6-100-760-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588573
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-CA6-100-760-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: 4453 lumens
Efficiency: N/A
Efficacy: 85.3 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

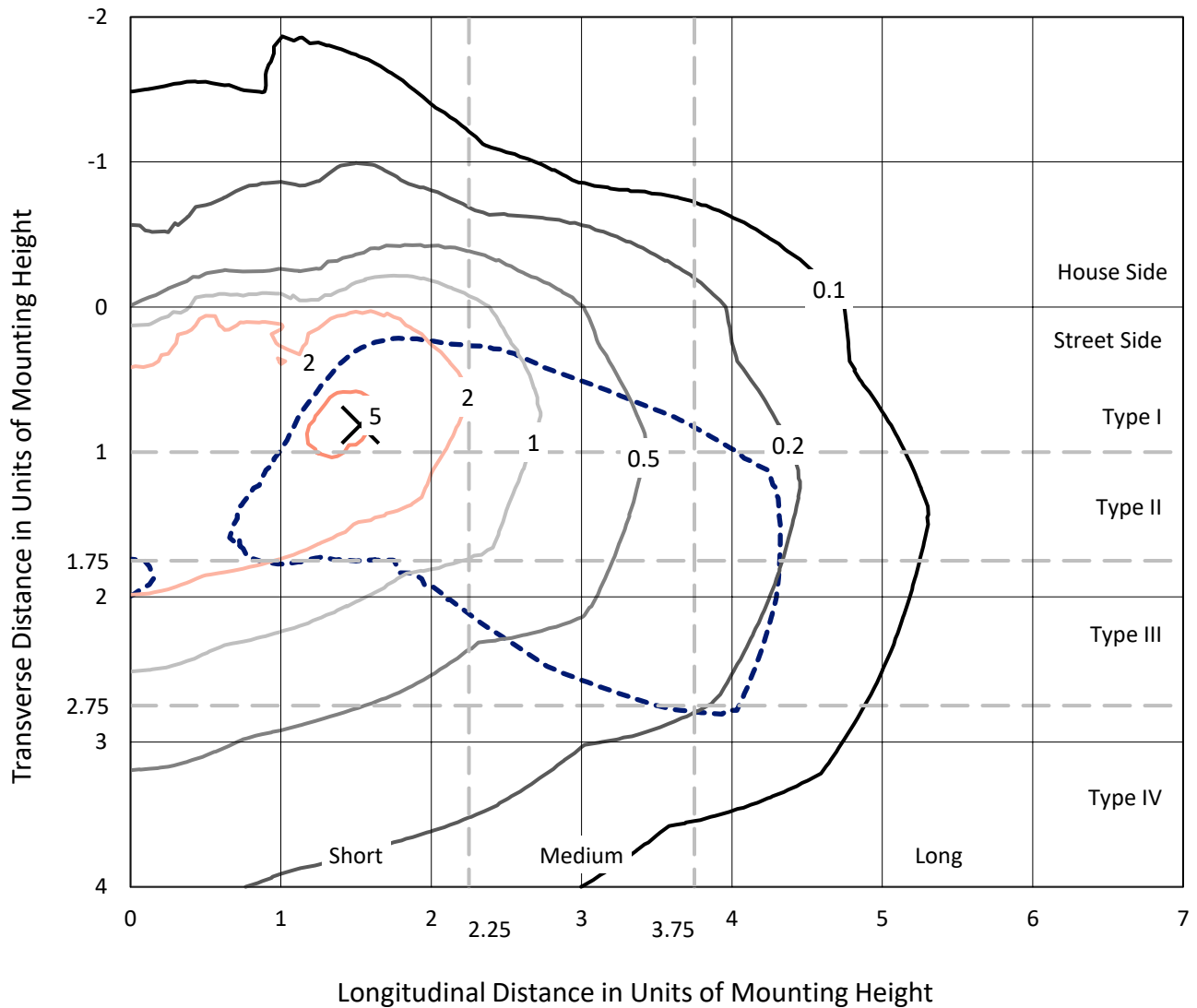
Input Watts (W): 52.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

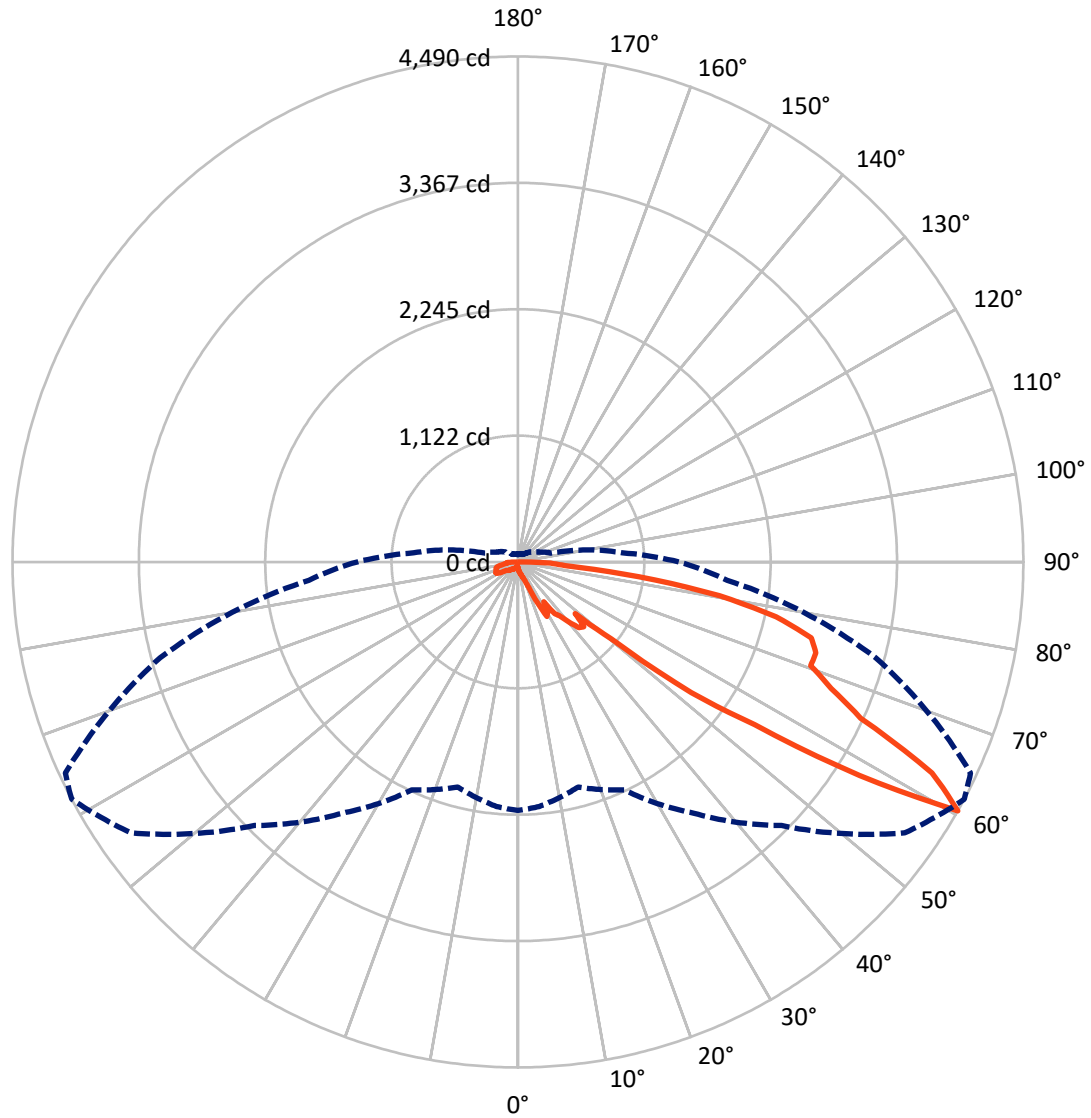
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 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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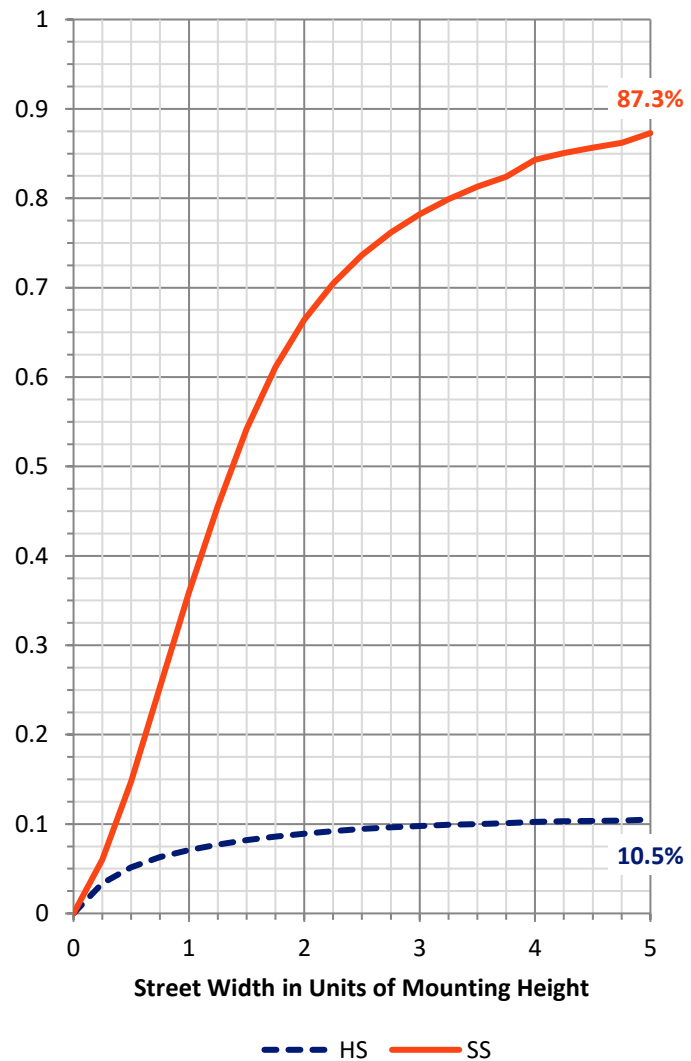
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	486.1	0.0	486.1
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	3966.9	0.0	3966.9
	% Fixture	89.1	0.0	89.1
Total	Lumens	4453.0	0.0	4453.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.0	0.1
10°-20°	25.3	0.6
20°-30°	94.5	2.1
30°-40°	186.6	4.2
40°-50°	322.9	7.3
50°-60°	956.1	21.5
60°-70°	1412.5	31.7
70°-80°	1133.0	25.4
80°-90°	316.1	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°	4453.0	100.0
0°-180°	4453.0	100.0

Coefficient of Utilization



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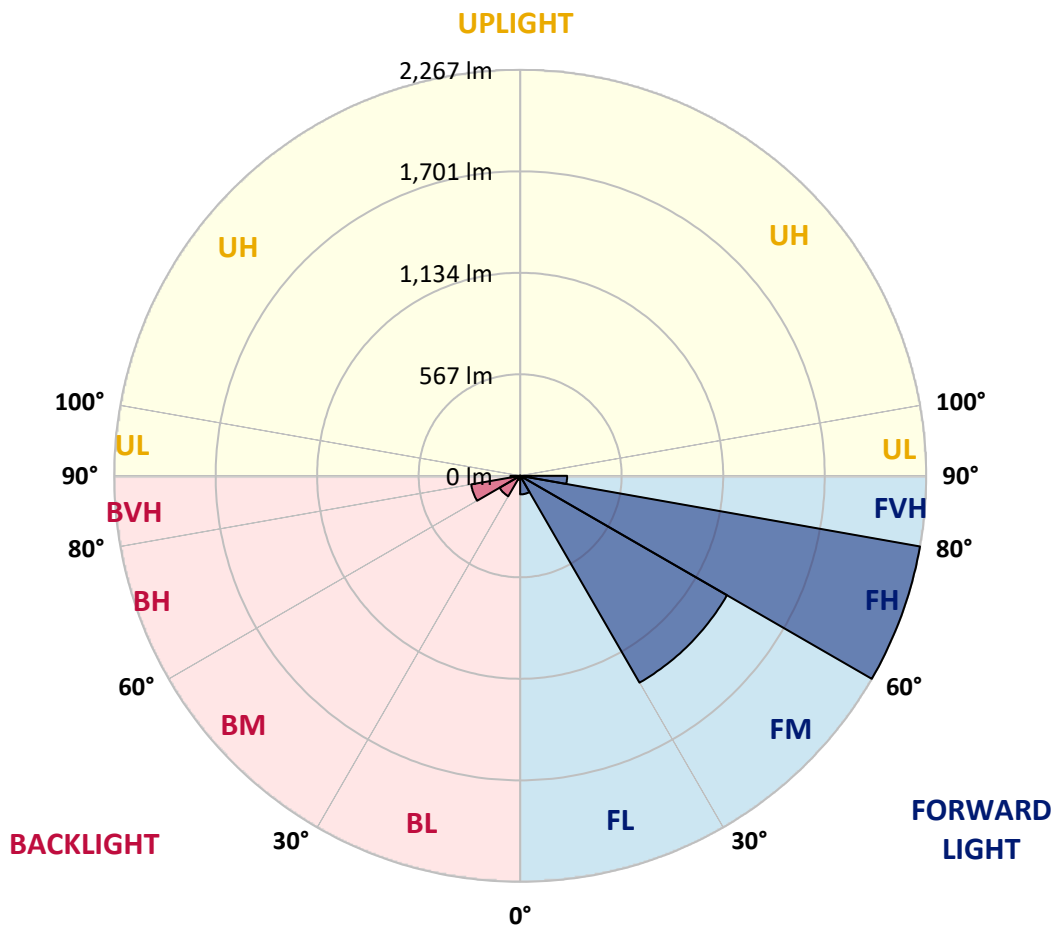
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	104.0	2.3			
FM (30°-60°)	1333.5	29.9			
FH (60°-80°)	2267.4	50.9			G2/5000
FVH (80°-90°)	261.9	5.9			G3/500
BL (0°-30°)	21.7	0.5	B0/110		
BM (30°-60°)	132.1	3.0	B0/220		
BH (60°-80°)	278.1	6.2	B1/500		G1/500
BVH (80°-90°)	54.2	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°	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
2.5°	74.6	73.4	71.0	68.6	67.4	66.2	65.0	63.8	62.6	58.9	56.5
5°	91.4	90.2	87.8	84.2	80.6	78.2	77.0	75.8	73.4	69.8	63.8
7.5°	103.5	103.5	103.5	101.1	97.4	92.6	89.0	86.6	84.2	79.4	73.4
10°	117.9	116.7	116.7	113.1	109.5	105.9	103.5	101.1	98.6	91.4	81.8
12.5°	128.7	127.5	126.3	122.7	121.5	117.9	116.7	111.9	109.5	101.1	89.0
15°	140.8	139.5	137.1	135.9	132.3	129.9	131.1	129.9	127.5	116.7	98.6
17.5°	154.0	152.8	151.6	151.6	151.6	149.2	148.0	145.6	143.2	126.3	104.7
20°	180.5	176.8	173.2	170.8	175.6	176.8	176.8	174.4	174.4	145.6	120.3
22.5°	229.8	226.2	223.8	205.7	212.9	246.6	257.4	245.4	247.8	191.3	132.3
25°	360.9	348.9	342.9	345.3	365.7	403.0	409.0	394.6	401.8	297.1	211.7
27.5°	422.3	424.7	471.6	519.7	525.7	545.0	577.4	547.4	531.7	380.2	264.7
30°	430.7	435.5	522.1	560.6	546.2	536.5	608.7	520.9	494.4	359.7	291.1
32.5°	397.0	418.6	511.3	526.9	493.2	440.3	493.2	419.9	411.4	312.8	276.7
35°	460.8	471.6	513.7	453.5	442.7	507.7	643.6	564.2	545.0	386.2	265.9
37.5°	558.2	554.6	635.2	682.1	665.3	599.1	670.1	609.9	594.3	486.0	380.2
40°	682.1	673.7	771.1	792.8	777.1	773.5	867.4	706.2	676.1	542.6	451.1
42.5°	717.0	719.4	782.0	834.9	822.9	821.7	962.4	796.4	750.7	548.6	495.6
45°	732.6	745.9	866.2	833.7	845.7	824.1	949.2	820.5	782.0	609.9	583.5
47.5°	636.4	643.6	809.6	810.8	658.0	662.9	774.7	683.3	655.6	477.6	502.9
50°	821.7	820.5	880.6	832.5	762.7	883.0	1109.2	1074.3	1053.8	717.0	558.2
52.5°	1188.6	1175.3	1266.8	1342.6	1328.1	1606.0	1942.9	1928.4	1855.0	1406.3	881.8
55°	1563.9	1557.9	1659.0	1926.0	2054.7	2315.8	2643.0	2551.6	2523.9	2071.6	1385.9
57.5°	1873.1	1874.3	1906.8	2136.5	2398.8	2904.1	3470.7	3577.8	3521.2	2674.3	1684.2
60°	2206.3	2179.9	2069.2	2232.8	2723.6	3310.7	4194.9	4489.6	4435.5	3290.2	1864.7
62.5°	2229.2	2202.7	2013.8	2179.9	2555.2	3095.3	3889.3	4128.7	4191.3	3457.5	1918.8
65°	2128.1	2095.6	1862.3	1986.2	2139.0	2466.2	3439.4	3344.4	3434.6	3405.7	1917.6
67.5°	2016.2	1989.8	1770.8	1874.3	1992.2	2211.1	3237.3	3000.3	3092.9	3203.6	2007.8
70°	1903.2	1865.9	1689.0	1800.9	1946.5	2094.4	2981.1	2758.5	2734.4	2714.0	1917.6
72.5°	1883.9	1855.0	1667.4	1745.6	1910.4	2019.9	2939.0	2768.1	2744.1	2617.8	1754.0
75°	1737.1	1734.7	1554.3	1627.7	1826.2	1894.7	2822.3	2691.1	2640.6	2478.2	1543.5
77.5°	1402.7	1384.7	1253.5	1330.5	1509.8	1604.8	2428.9	2343.5	2314.6	2163.0	1276.4
80°	943.2	927.5	871.0	915.5	1082.7	1165.7	1822.6	1815.3	1793.7	1693.8	943.2
82.5°	536.5	563.0	510.1	530.5	588.3	690.5	1133.2	1083.9	1068.3	997.3	535.3
85°	302.0	295.9	275.5	273.1	318.8	314.0	489.6	419.9	436.7	377.7	255.0
87.5°	217.7	222.6	200.9	200.9	222.6	220.2	308.0	289.9	287.5	269.5	182.9
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°	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
2.5°	55.3	54.1	50.5	46.9	40.9	34.9	31.3	33.7	34.9	36.1	36.1
5°	60.2	57.7	50.5	43.3	36.1	30.1	25.3	22.9	22.9	24.1	24.1
7.5°	71.0	67.4	57.7	49.3	39.7	33.7	27.7	24.1	21.7	21.7	21.7
10°	77.0	73.4	62.6	52.9	43.3	36.1	30.1	25.3	22.9	21.7	21.7
12.5°	83.0	78.2	67.4	56.5	45.7	37.3	31.3	26.5	25.3	25.3	25.3
15°	90.2	83.0	69.8	57.7	46.9	38.5	31.3	27.7	26.5	26.5	26.5
17.5°	97.4	90.2	74.6	58.9	48.1	38.5	32.5	27.7	26.5	27.7	27.7
20°	109.5	96.2	74.6	60.2	48.1	38.5	32.5	27.7	27.7	27.7	27.7
22.5°	115.5	104.7	79.4	61.4	49.3	39.7	32.5	27.7	27.7	27.7	27.7
25°	178.0	132.3	83.0	63.8	50.5	40.9	32.5	28.9	27.7	28.9	28.9
27.5°	223.8	186.5	95.0	67.4	51.7	42.1	33.7	28.9	28.9	30.1	30.1
30°	249.0	212.9	103.5	73.4	55.3	43.3	34.9	30.1	30.1	30.1	30.1
32.5°	237.0	192.5	104.7	80.6	61.4	45.7	36.1	31.3	31.3	31.3	31.3
35°	205.7	158.8	102.3	81.8	65.0	50.5	38.5	32.5	32.5	31.3	31.3
37.5°	287.5	199.7	105.9	81.8	67.4	54.1	42.1	34.9	33.7	32.5	32.5
40°	340.5	222.6	116.7	87.8	67.4	55.3	44.5	38.5	36.1	34.9	33.7
42.5°	377.7	244.2	125.1	96.2	74.6	57.7	45.7	42.1	38.5	36.1	36.1
45°	431.9	258.6	135.9	105.9	81.8	63.8	49.3	43.3	42.1	39.7	38.5
47.5°	394.6	263.5	146.8	116.7	90.2	69.8	54.1	46.9	45.7	43.3	42.1
50°	405.4	256.2	150.4	123.9	98.6	74.6	58.9	51.7	49.3	46.9	46.9
52.5°	553.4	339.2	164.8	127.5	102.3	81.8	63.8	56.5	54.1	51.7	51.7
55°	903.5	519.7	203.3	140.8	105.9	84.2	68.6	62.6	58.9	56.5	55.3
57.5°	1180.2	733.8	257.4	172.0	126.3	89.0	71.0	68.6	66.2	61.4	60.2
60°	1431.6	929.9	303.2	206.9	158.8	115.5	81.8	75.8	74.6	67.4	65.0
62.5°	1636.1	1092.3	340.5	226.2	181.7	149.2	111.9	93.8	84.2	75.8	73.4
65°	1710.7	1146.5	354.9	229.8	187.7	166.0	140.8	127.5	99.8	86.6	84.2
67.5°	1739.6	1134.4	362.1	222.6	182.9	166.0	148.0	149.2	121.5	96.2	92.6
70°	1683.0	1087.5	358.5	215.3	175.6	161.2	144.4	139.5	126.3	103.5	98.6
72.5°	1555.5	1044.2	357.3	214.1	173.2	155.2	133.5	119.1	108.3	102.3	99.8
75°	1428.0	1015.3	352.5	212.9	169.6	146.8	121.5	103.5	89.0	90.2	92.6
77.5°	1212.6	896.2	326.0	197.3	152.8	127.5	104.7	91.4	80.6	79.4	79.4
80°	916.7	665.3	267.1	164.8	125.1	103.5	86.6	81.8	75.8	73.4	72.2
82.5°	507.7	350.1	172.0	122.7	98.6	80.6	73.4	73.4	69.8	66.2	66.2
85°	232.2	196.1	127.5	102.3	84.2	69.8	63.8	63.8	60.2	56.5	55.3
87.5°	180.5	155.2	108.3	95.0	81.8	68.6	61.4	61.4	57.7	55.3	55.3
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)