

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: P588633

Luminaire Tested: **ARC-CA6-90-760-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588633
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-CA6-90-760-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: 4078 lumens
Efficiency: N/A
Efficacy: 86.4 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

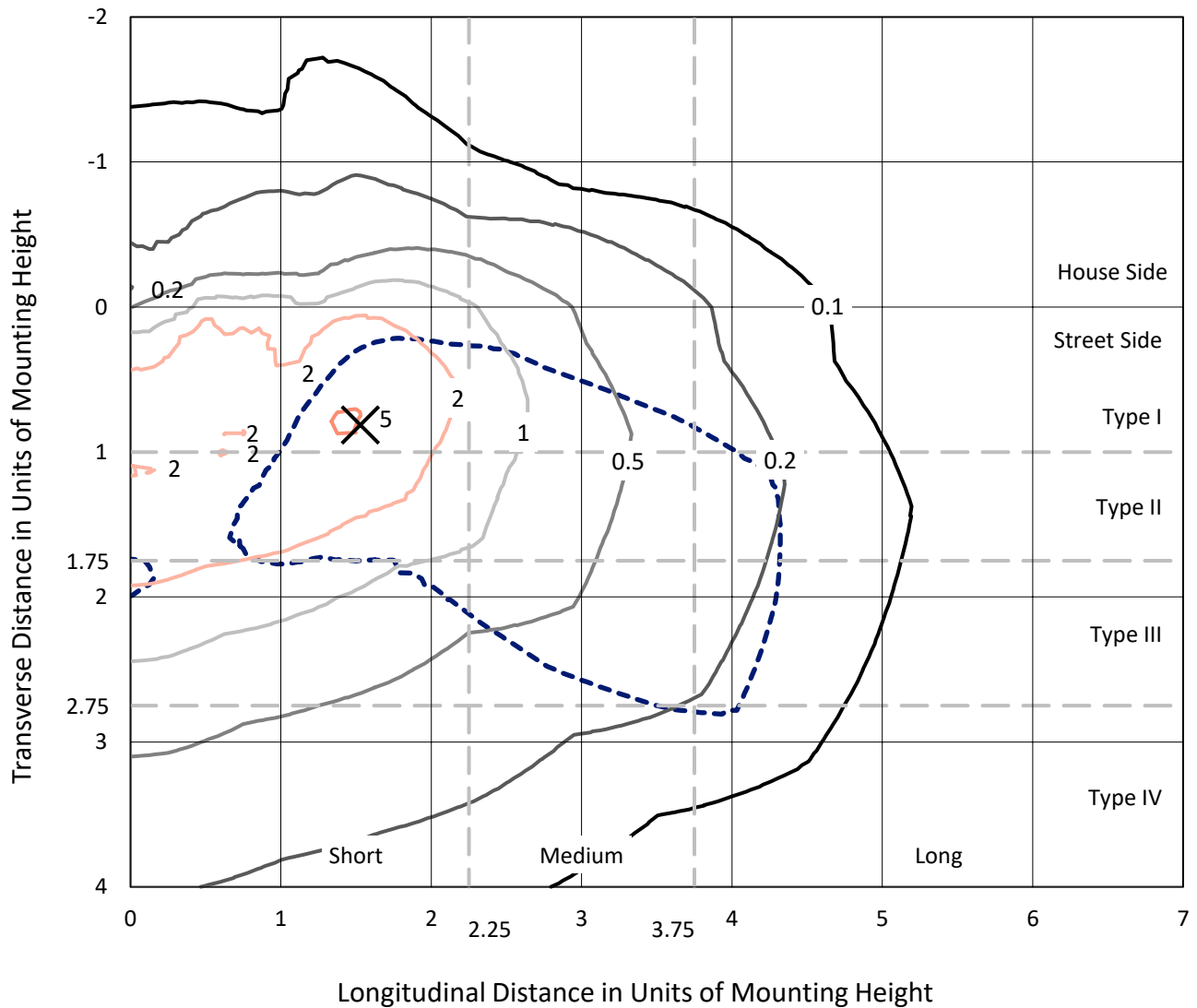
Input Watts (W): 47.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

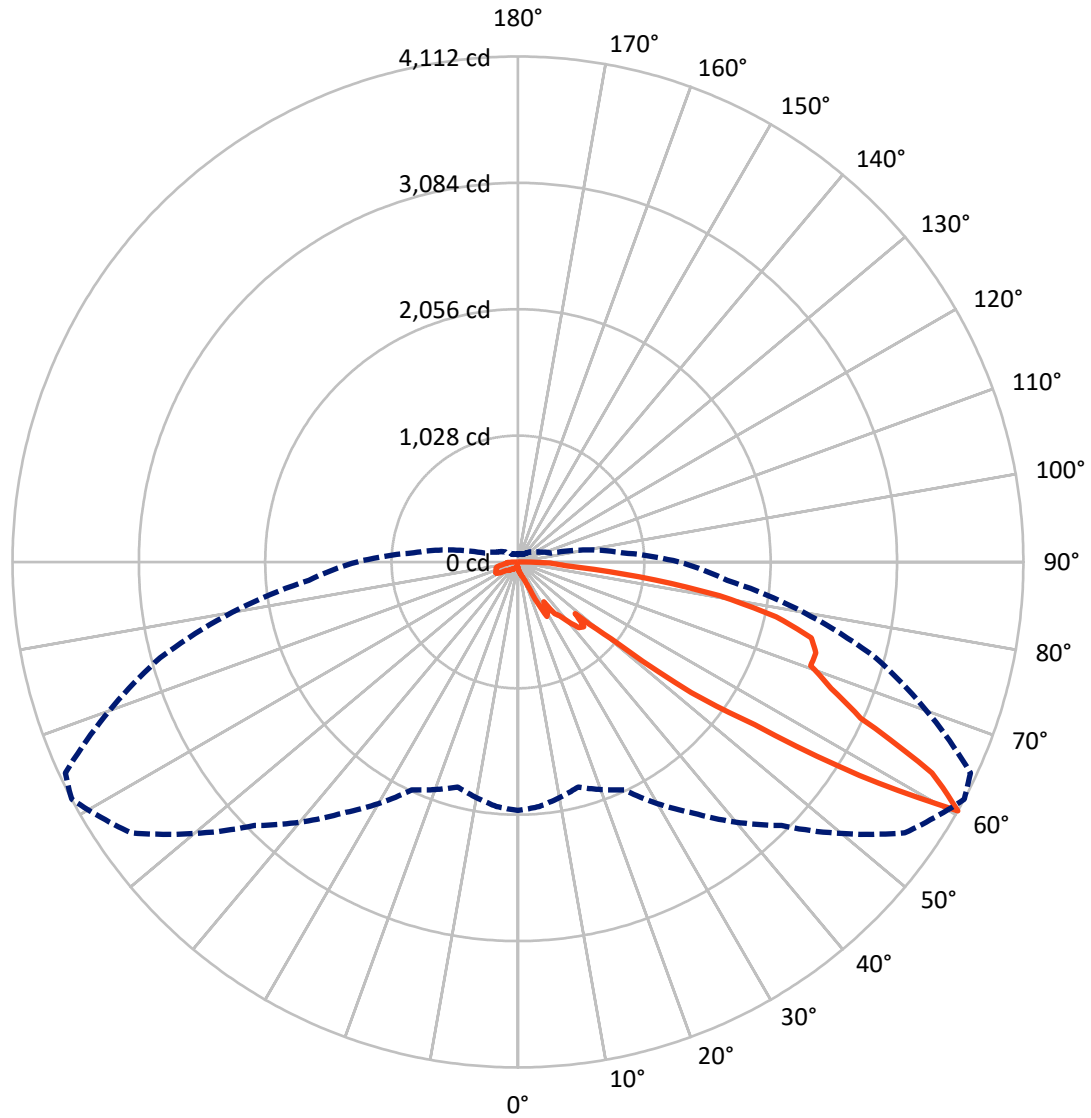
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.1 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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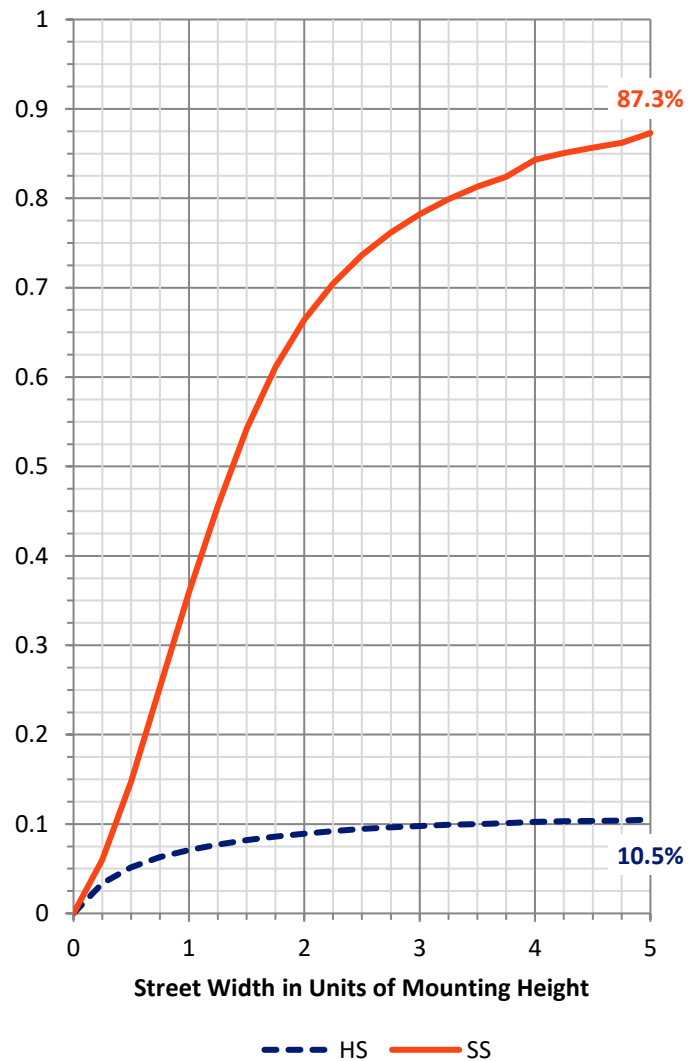
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	445.1	0.0	445.1
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	3632.8	0.0	3632.8
	% Fixture	89.1	0.0	89.1
Total	Lumens	4078.0	0.0	4078.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.1
10°-20°	23.2	0.6
20°-30°	86.5	2.1
30°-40°	170.9	4.2
40°-50°	295.7	7.3
50°-60°	875.6	21.5
60°-70°	1293.6	31.7
70°-80°	1037.6	25.4
80°-90°	289.5	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°	4078.0	100.0
0°-180°	4078.0	100.0

Coefficient of Utilization



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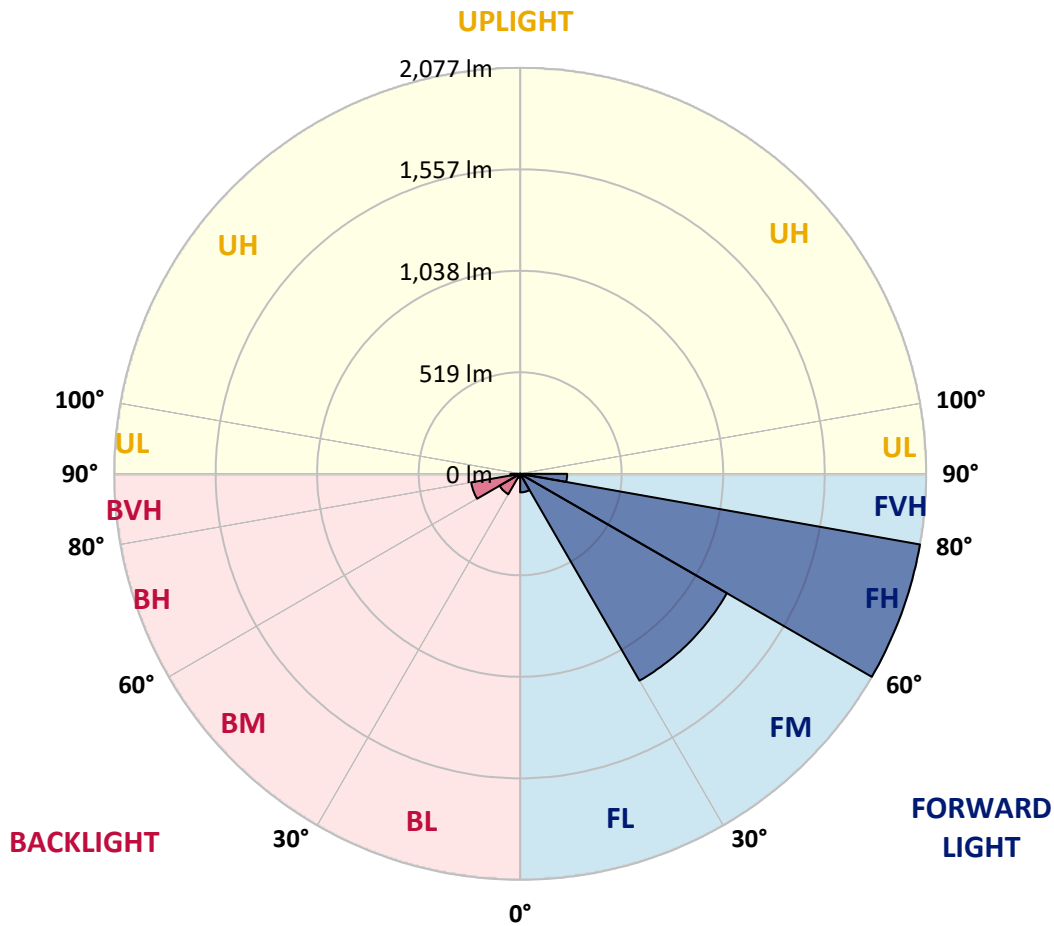
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	95.3	2.3			
FM (30°-60°)	1221.2	29.9			
FH (60°-80°)	2076.5	50.9			G2/5000
FVH (80°-90°)	239.9	5.9			G3/500
BL (0°-30°)	19.9	0.5	B0/110		
BM (30°-60°)	121.0	3.0	B0/220		
BH (60°-80°)	254.6	6.2	B1/500		G1/500
BVH (80°-90°)	49.6	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°	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
2.5°	68.3	67.2	65.0	62.8	61.7	60.6	59.5	58.4	57.3	54.0	51.8
5°	83.7	82.6	80.4	77.1	73.8	71.6	70.5	69.4	67.2	63.9	58.4
7.5°	94.7	94.7	94.7	92.5	89.2	84.8	81.5	79.3	77.1	72.7	67.2
10°	108.0	106.9	106.9	103.6	100.3	96.9	94.7	92.5	90.3	83.7	74.9
12.5°	117.9	116.8	115.7	112.4	111.3	108.0	106.9	102.5	100.3	92.5	81.5
15°	128.9	127.8	125.6	124.5	121.2	119.0	120.1	119.0	116.8	106.9	90.3
17.5°	141.0	139.9	138.8	138.8	138.8	136.6	135.5	133.3	131.1	115.7	95.8
20°	165.3	162.0	158.6	156.4	160.8	162.0	162.0	159.7	159.7	133.3	110.2
22.5°	210.4	207.1	204.9	188.4	195.0	225.8	235.8	224.7	227.0	175.2	121.2
25°	330.5	319.5	314.0	316.2	334.9	369.1	374.6	361.4	368.0	272.1	193.9
27.5°	386.7	388.9	431.9	475.9	481.4	499.1	528.8	501.3	487.0	348.1	242.4
30°	394.4	398.8	478.1	513.4	500.2	491.4	557.5	477.0	452.8	329.4	266.6
32.5°	363.6	383.4	468.2	482.5	451.7	403.2	451.7	384.5	376.8	286.4	253.4
35°	422.0	431.9	470.4	415.3	405.4	464.9	589.4	516.7	499.1	353.6	243.5
37.5°	511.2	507.9	581.7	624.7	609.2	548.6	613.6	558.6	544.2	445.1	348.1
40°	624.7	617.0	706.2	726.0	711.7	708.4	794.3	646.7	619.2	496.9	413.1
42.5°	656.6	658.8	716.1	764.6	753.6	752.5	881.4	729.3	687.5	502.4	453.9
45°	670.9	683.1	793.2	763.5	774.5	754.7	869.2	751.4	716.1	558.6	534.3
47.5°	582.8	589.4	741.4	742.5	602.6	607.0	709.5	625.8	600.4	437.4	460.5
50°	752.5	751.4	806.4	762.4	698.5	808.6	1015.8	983.8	965.1	656.6	511.2
52.5°	1088.5	1076.4	1160.1	1229.5	1216.3	1470.8	1779.2	1766.0	1698.8	1287.9	807.5
55°	1432.2	1426.7	1519.2	1763.8	1881.7	2120.8	2420.4	2336.7	2311.4	1897.1	1269.2
57.5°	1715.4	1716.5	1746.2	1956.6	2196.8	2659.5	3178.4	3276.5	3224.7	2449.1	1542.4
60°	2020.5	1996.3	1894.9	2044.8	2494.3	3031.9	3841.6	4111.6	4062.0	3013.2	1707.6
62.5°	2041.5	2017.2	1844.3	1996.3	2340.0	2834.7	3561.8	3781.0	3838.3	3166.3	1757.2
65°	1948.9	1919.2	1705.4	1818.9	1958.8	2258.5	3149.8	3062.7	3145.4	3118.9	1756.1
67.5°	1846.5	1822.2	1621.7	1716.5	1824.4	2024.9	2964.7	2747.6	2832.5	2933.8	1838.7
70°	1742.9	1708.7	1546.8	1649.2	1782.6	1918.1	2730.0	2526.2	2504.2	2485.4	1756.1
72.5°	1725.3	1698.8	1527.0	1598.6	1749.5	1849.8	2691.5	2535.0	2513.0	2397.3	1606.3
75°	1590.9	1588.7	1423.4	1490.6	1672.4	1735.2	2584.6	2464.5	2418.2	2269.5	1413.5
77.5°	1284.6	1268.1	1148.0	1218.5	1382.6	1469.7	2224.3	2146.1	2119.7	1980.9	1168.9
80°	863.7	849.4	797.6	838.4	991.5	1067.5	1669.1	1662.5	1642.6	1551.2	863.7
82.5°	491.4	515.6	467.1	485.9	538.7	632.4	1037.8	992.6	978.3	913.3	490.3
85°	276.5	271.0	252.3	250.1	292.0	287.5	448.4	384.5	399.9	345.9	233.6
87.5°	199.4	203.8	184.0	184.0	203.8	201.6	282.0	265.5	263.3	246.8	167.5
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°	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
2.5°	50.7	49.6	46.3	43.0	37.5	31.9	28.6	30.8	31.9	33.1	33.1
5°	55.1	52.9	46.3	39.7	33.1	27.5	23.1	20.9	20.9	22.0	22.0
7.5°	65.0	61.7	52.9	45.2	36.4	30.8	25.3	22.0	19.8	19.8	19.8
10°	70.5	67.2	57.3	48.5	39.7	33.1	27.5	23.1	20.9	19.8	19.8
12.5°	76.0	71.6	61.7	51.8	41.9	34.2	28.6	24.2	23.1	23.1	23.1
15°	82.6	76.0	63.9	52.9	43.0	35.3	28.6	25.3	24.2	24.2	24.2
17.5°	89.2	82.6	68.3	54.0	44.1	35.3	29.7	25.3	24.2	25.3	25.3
20°	100.3	88.1	68.3	55.1	44.1	35.3	29.7	25.3	25.3	25.3	25.3
22.5°	105.8	95.8	72.7	56.2	45.2	36.4	29.7	25.3	25.3	25.3	25.3
25°	163.1	121.2	76.0	58.4	46.3	37.5	29.7	26.4	25.3	26.4	26.4
27.5°	204.9	170.8	87.0	61.7	47.4	38.6	30.8	26.4	26.4	27.5	27.5
30°	228.1	195.0	94.7	67.2	50.7	39.7	31.9	27.5	27.5	27.5	27.5
32.5°	217.0	176.3	95.8	73.8	56.2	41.9	33.1	28.6	28.6	28.6	28.6
35°	188.4	145.4	93.6	74.9	59.5	46.3	35.3	29.7	29.7	28.6	28.6
37.5°	263.3	182.9	96.9	74.9	61.7	49.6	38.6	31.9	30.8	29.7	29.7
40°	311.8	203.8	106.9	80.4	61.7	50.7	40.8	35.3	33.1	31.9	30.8
42.5°	345.9	223.6	114.6	88.1	68.3	52.9	41.9	38.6	35.3	33.1	33.1
45°	395.5	236.9	124.5	96.9	74.9	58.4	45.2	39.7	38.6	36.4	35.3
47.5°	361.4	241.3	134.4	106.9	82.6	63.9	49.6	43.0	41.9	39.7	38.6
50°	371.3	234.7	137.7	113.5	90.3	68.3	54.0	47.4	45.2	43.0	43.0
52.5°	506.8	310.7	150.9	116.8	93.6	74.9	58.4	51.8	49.6	47.4	47.4
55°	827.4	475.9	186.2	128.9	96.9	77.1	62.8	57.3	54.0	51.8	50.7
57.5°	1080.8	672.0	235.8	157.5	115.7	81.5	65.0	62.8	60.6	56.2	55.1
60°	1311.0	851.6	277.6	189.5	145.4	105.8	74.9	69.4	68.3	61.7	59.5
62.5°	1498.3	1000.3	311.8	207.1	166.4	136.6	102.5	85.9	77.1	69.4	67.2
65°	1566.6	1049.9	325.0	210.4	171.9	152.0	128.9	116.8	91.4	79.3	77.1
67.5°	1593.1	1038.9	331.6	203.8	167.5	152.0	135.5	136.6	111.3	88.1	84.8
70°	1541.3	995.9	328.3	197.2	160.8	147.6	132.2	127.8	115.7	94.7	90.3
72.5°	1424.5	956.3	327.2	196.1	158.6	142.1	122.3	109.1	99.2	93.6	91.4
75°	1307.7	929.8	322.8	195.0	155.3	134.4	111.3	94.7	81.5	82.6	84.8
77.5°	1110.5	820.8	298.6	180.7	139.9	116.8	95.8	83.7	73.8	72.7	72.7
80°	839.5	609.2	244.6	150.9	114.6	94.7	79.3	74.9	69.4	67.2	66.1
82.5°	464.9	320.6	157.5	112.4	90.3	73.8	67.2	67.2	63.9	60.6	60.6
85°	212.6	179.6	116.8	93.6	77.1	63.9	58.4	58.4	55.1	51.8	50.7
87.5°	165.3	142.1	99.2	87.0	74.9	62.8	56.2	56.2	52.9	50.7	50.7
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)