

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: P588627

Luminaire Tested: **ARC-CA6-90-730-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588627
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-CA6-90-730-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: 3997 lumens
Efficiency: N/A
Efficacy: 84.7 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

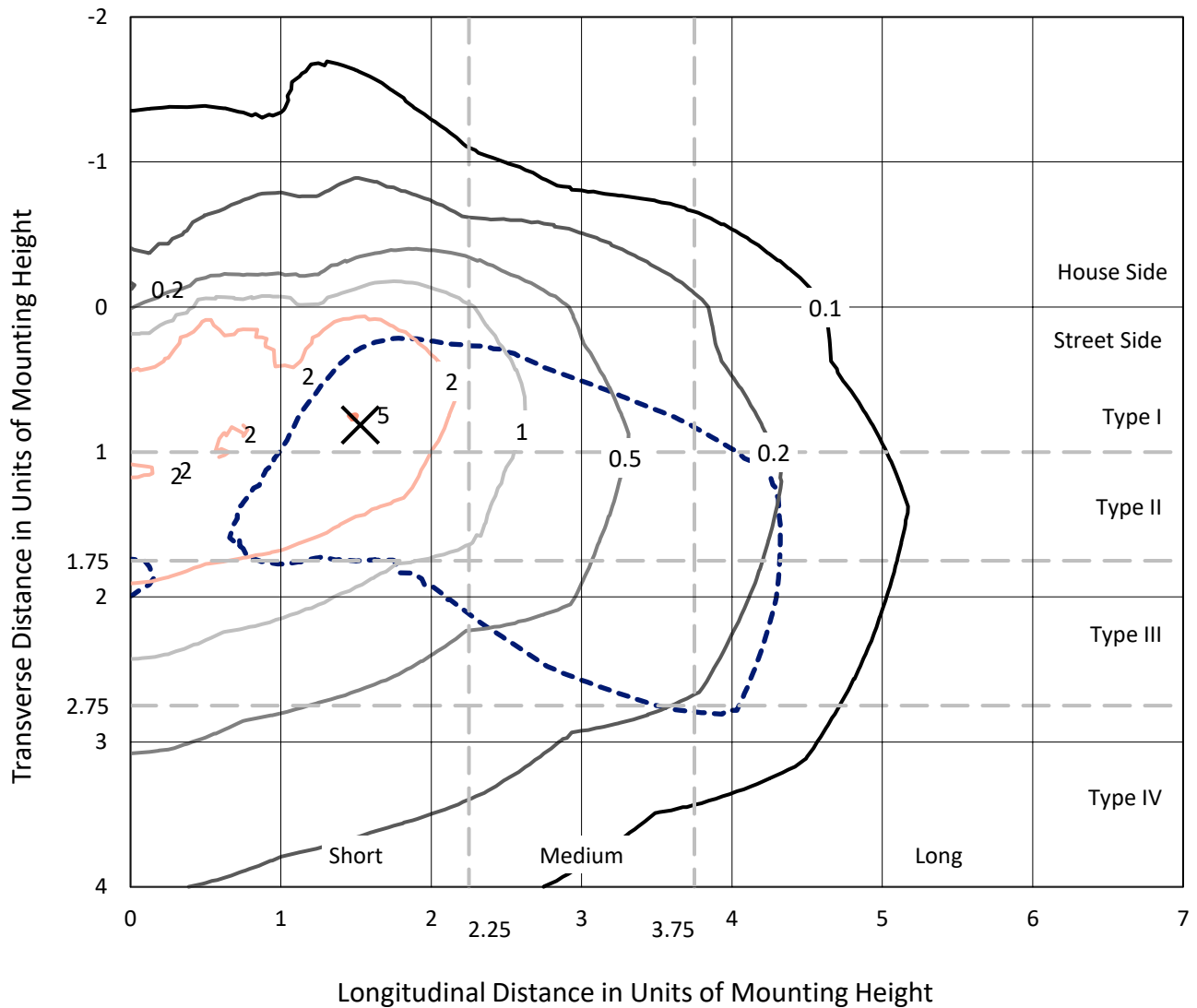
Input Watts (W): 47.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

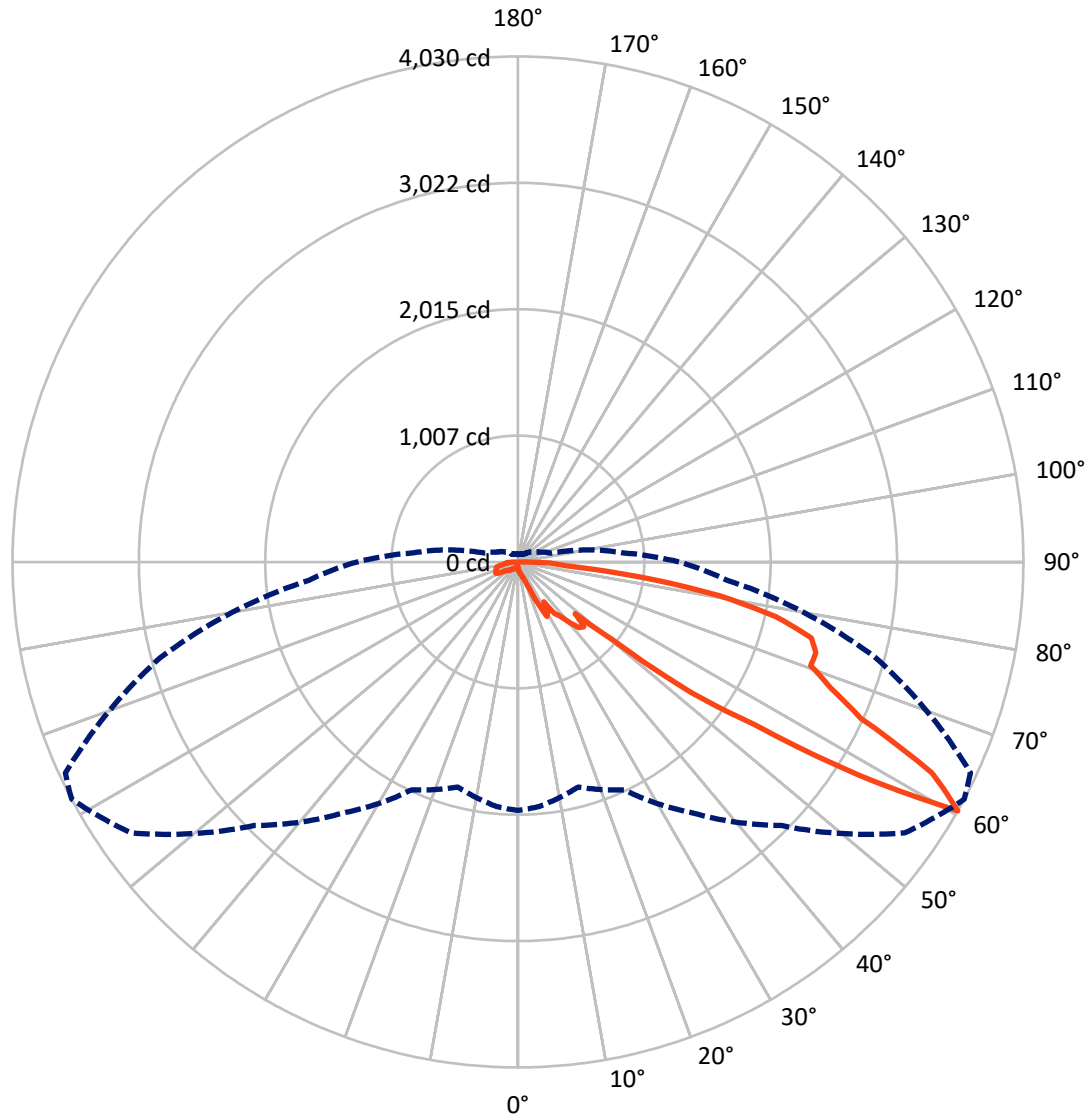
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 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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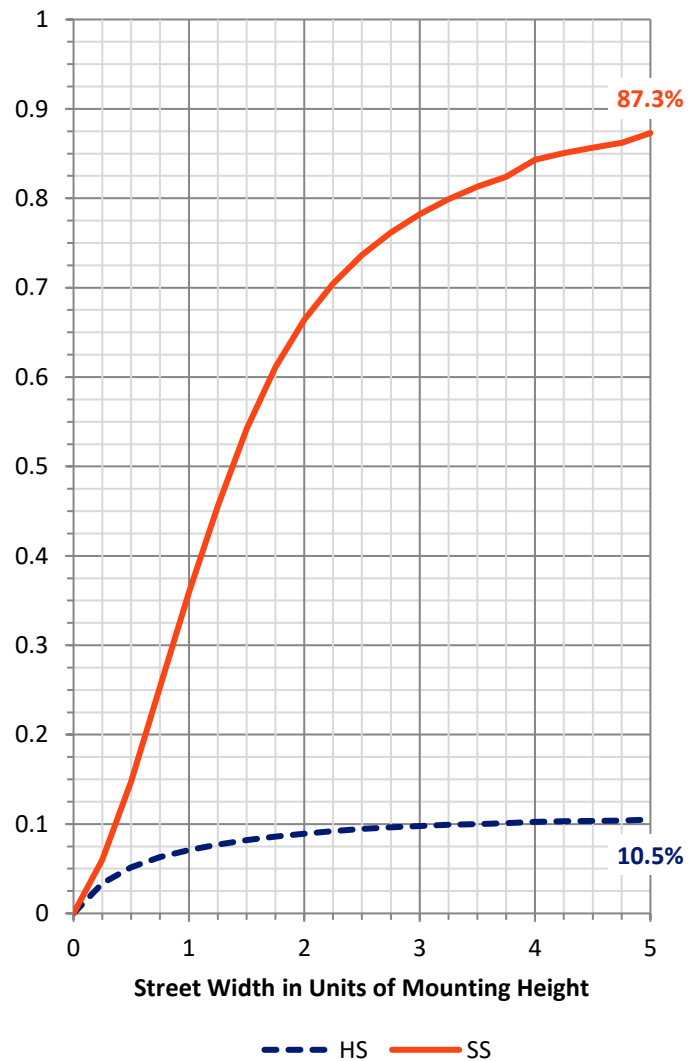
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	436.3	0.0	436.3
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	3560.7	0.0	3560.7
	% Fixture	89.1	0.0	89.1
Total	Lumens	3997.0	0.0	3997.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.4	0.1
10°-20°	22.7	0.6
20°-30°	84.8	2.1
30°-40°	167.5	4.2
40°-50°	289.8	7.3
50°-60°	858.2	21.5
60°-70°	1267.9	31.7
70°-80°	1017.0	25.4
80°-90°	283.8	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°	3997.0	100.0
0°-180°	3997.0	100.0

Coefficient of Utilization



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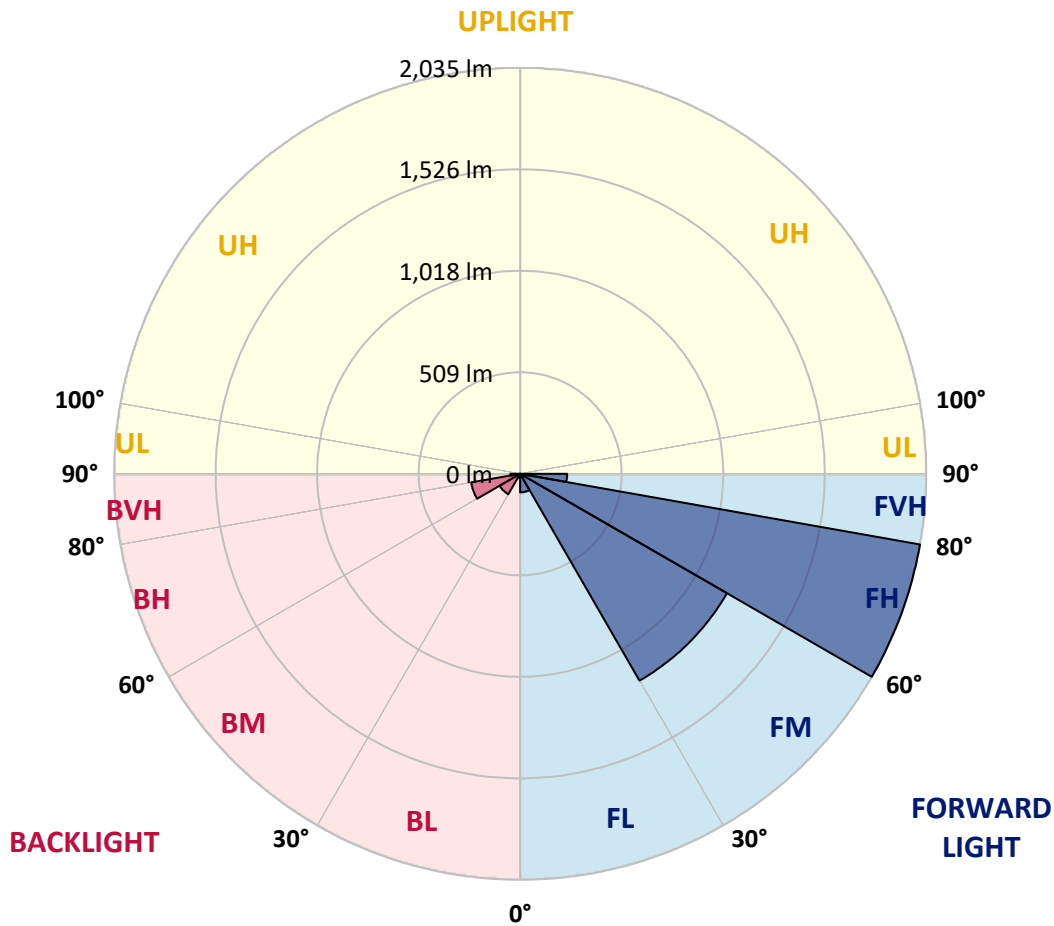
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	93.4	2.3			
FM (30°-60°)	1196.9	29.9			
FH (60°-80°)	2035.3	50.9			G2/5000
FVH (80°-90°)	235.1	5.9			G3/500
BL (0°-30°)	19.5	0.5	B0/110		
BM (30°-60°)	118.6	3.0	B0/220		
BH (60°-80°)	249.6	6.2	B1/500		G1/500
BVH (80°-90°)	48.6	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°	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
2.5°	66.9	65.9	63.7	61.5	60.5	59.4	58.3	57.2	56.2	52.9	50.8
5°	82.1	81.0	78.8	75.6	72.3	70.2	69.1	68.0	65.9	62.6	57.2
7.5°	92.9	92.9	92.9	90.7	87.5	83.1	79.9	77.7	75.6	71.3	65.9
10°	105.8	104.7	104.7	101.5	98.3	95.0	92.9	90.7	88.5	82.1	73.4
12.5°	115.5	114.5	113.4	110.1	109.1	105.8	104.7	100.4	98.3	90.7	79.9
15°	126.3	125.3	123.1	122.0	118.8	116.6	117.7	116.6	114.5	104.7	88.5
17.5°	138.2	137.1	136.1	136.1	136.1	133.9	132.8	130.7	128.5	113.4	93.9
20°	162.0	158.7	155.5	153.3	157.7	158.7	158.7	156.6	156.6	130.7	108.0
22.5°	206.2	203.0	200.8	184.6	191.1	221.4	231.1	220.3	222.4	171.7	118.8
25°	323.9	313.1	307.7	309.9	328.3	361.7	367.1	354.2	360.7	266.7	190.0
27.5°	379.0	381.2	423.3	466.5	471.9	489.2	518.3	491.3	477.3	341.2	237.6
30°	386.6	390.9	468.6	503.2	490.2	481.6	546.4	467.6	443.8	322.9	261.3
32.5°	356.3	375.8	458.9	473.0	442.7	395.2	442.7	376.9	369.3	280.8	248.4
35°	413.6	423.3	461.1	407.1	397.4	455.7	577.7	506.4	489.2	346.6	238.6
37.5°	501.0	497.8	570.1	612.3	597.1	537.8	601.5	547.5	533.4	436.2	341.2
40°	612.3	604.7	692.2	711.6	697.6	694.3	778.6	633.9	606.9	487.0	404.9
42.5°	643.6	645.7	701.9	749.4	738.6	737.5	863.9	714.8	673.8	492.4	444.9
45°	657.6	669.5	777.5	748.3	759.1	739.7	852.0	736.4	701.9	547.5	523.7
47.5°	571.2	577.7	726.7	727.8	590.7	595.0	695.4	613.3	588.5	428.7	451.4
50°	737.5	736.4	790.4	747.2	684.6	792.6	995.6	964.3	945.9	643.6	501.0
52.5°	1066.9	1055.0	1137.1	1205.1	1192.1	1441.6	1743.9	1731.0	1665.1	1262.3	791.5
55°	1403.8	1398.4	1489.1	1728.8	1844.3	2078.7	2372.4	2290.3	2265.5	1859.4	1244.0
57.5°	1681.3	1682.4	1711.5	1917.8	2153.2	2606.7	3115.3	3211.4	3160.6	2400.4	1511.7
60°	1980.4	1956.6	1857.3	2004.1	2444.7	2971.7	3765.3	4029.9	3981.3	2953.3	1673.7
62.5°	2000.9	1977.2	1807.6	1956.6	2293.5	2778.4	3491.1	3705.9	3762.1	3103.4	1722.3
65°	1910.2	1881.0	1671.6	1782.8	1919.9	2213.6	3087.2	3001.9	3082.9	3057.0	1721.2
67.5°	1809.8	1786.0	1589.5	1682.4	1788.2	1984.7	2905.8	2693.1	2776.2	2875.6	1802.2
70°	1708.3	1674.8	1516.1	1616.5	1747.1	1880.0	2675.8	2476.0	2454.4	2436.1	1721.2
72.5°	1691.0	1665.1	1496.6	1566.8	1714.8	1813.0	2638.0	2484.7	2463.1	2349.7	1574.4
75°	1559.3	1557.1	1395.1	1461.0	1639.2	1700.7	2533.3	2415.6	2370.2	2224.4	1385.4
77.5°	1259.1	1242.9	1125.2	1194.3	1355.2	1440.5	2180.2	2103.5	2077.6	1941.5	1145.7
80°	846.6	832.5	781.8	821.7	971.8	1046.3	1635.9	1629.4	1610.0	1520.4	846.6
82.5°	481.6	505.4	457.8	476.2	528.0	619.8	1017.2	972.9	958.9	895.2	480.5
85°	271.0	265.6	247.3	245.1	286.2	281.8	439.5	376.9	392.0	339.1	228.9
87.5°	195.4	199.8	180.3	180.3	199.8	197.6	276.4	260.2	258.1	241.9	164.1
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°	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
2.5°	49.7	48.6	45.4	42.1	36.7	31.3	28.1	30.2	31.3	32.4	32.4
5°	54.0	51.8	45.4	38.9	32.4	27.0	22.7	20.5	20.5	21.6	21.6
7.5°	63.7	60.5	51.8	44.3	35.6	30.2	24.8	21.6	19.4	19.4	19.4
10°	69.1	65.9	56.2	47.5	38.9	32.4	27.0	22.7	20.5	19.4	19.4
12.5°	74.5	70.2	60.5	50.8	41.0	33.5	28.1	23.8	22.7	22.7	22.7
15°	81.0	74.5	62.6	51.8	42.1	34.6	28.1	24.8	23.8	23.8	23.8
17.5°	87.5	81.0	66.9	52.9	43.2	34.6	29.2	24.8	23.8	24.8	24.8
20°	98.3	86.4	66.9	54.0	43.2	34.6	29.2	24.8	24.8	24.8	24.8
22.5°	103.7	93.9	71.3	55.1	44.3	35.6	29.2	24.8	24.8	24.8	24.8
25°	159.8	118.8	74.5	57.2	45.4	36.7	29.2	25.9	24.8	25.9	25.9
27.5°	200.8	167.4	85.3	60.5	46.4	37.8	30.2	25.9	25.9	27.0	27.0
30°	223.5	191.1	92.9	65.9	49.7	38.9	31.3	27.0	27.0	27.0	27.0
32.5°	212.7	172.8	93.9	72.3	55.1	41.0	32.4	28.1	28.1	28.1	28.1
35°	184.6	142.5	91.8	73.4	58.3	45.4	34.6	29.2	29.2	28.1	28.1
37.5°	258.1	179.3	95.0	73.4	60.5	48.6	37.8	31.3	30.2	29.2	29.2
40°	305.6	199.8	104.7	78.8	60.5	49.7	40.0	34.6	32.4	31.3	30.2
42.5°	339.1	219.2	112.3	86.4	66.9	51.8	41.0	37.8	34.6	32.4	32.4
45°	387.7	232.2	122.0	95.0	73.4	57.2	44.3	38.9	37.8	35.6	34.6
47.5°	354.2	236.5	131.7	104.7	81.0	62.6	48.6	42.1	41.0	38.9	37.8
50°	363.9	230.0	135.0	111.2	88.5	66.9	52.9	46.4	44.3	42.1	42.1
52.5°	496.7	304.5	147.9	114.5	91.8	73.4	57.2	50.8	48.6	46.4	46.4
55°	810.9	466.5	182.5	126.3	95.0	75.6	61.5	56.2	52.9	50.8	49.7
57.5°	1059.3	658.7	231.1	154.4	113.4	79.9	63.7	61.5	59.4	55.1	54.0
60°	1285.0	834.7	272.1	185.7	142.5	103.7	73.4	68.0	66.9	60.5	58.3
62.5°	1468.6	980.5	305.6	203.0	163.1	133.9	100.4	84.2	75.6	68.0	65.9
65°	1535.5	1029.1	318.5	206.2	168.5	149.0	126.3	114.5	89.6	77.7	75.6
67.5°	1561.4	1018.3	325.0	199.8	164.1	149.0	132.8	133.9	109.1	86.4	83.1
70°	1510.7	976.2	321.8	193.3	157.7	144.7	129.6	125.3	113.4	92.9	88.5
72.5°	1396.2	937.3	320.7	192.2	155.5	139.3	119.9	106.9	97.2	91.8	89.6
75°	1281.7	911.4	316.4	191.1	152.3	131.7	109.1	92.9	79.9	81.0	83.1
77.5°	1088.5	804.5	292.6	177.1	137.1	114.5	93.9	82.1	72.3	71.3	71.3
80°	822.8	597.1	239.7	147.9	112.3	92.9	77.7	73.4	68.0	65.9	64.8
82.5°	455.7	314.2	154.4	110.1	88.5	72.3	65.9	65.9	62.6	59.4	59.4
85°	208.4	176.0	114.5	91.8	75.6	62.6	57.2	57.2	54.0	50.8	49.7
87.5°	162.0	139.3	97.2	85.3	73.4	61.5	55.1	55.1	51.8	49.7	49.7
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)