

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: P588631

Luminaire Tested: **ARC-CA6-90-750-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588631
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-CA6-90-750-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: 4166 lumens
Efficiency: N/A
Efficacy: 88.3 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

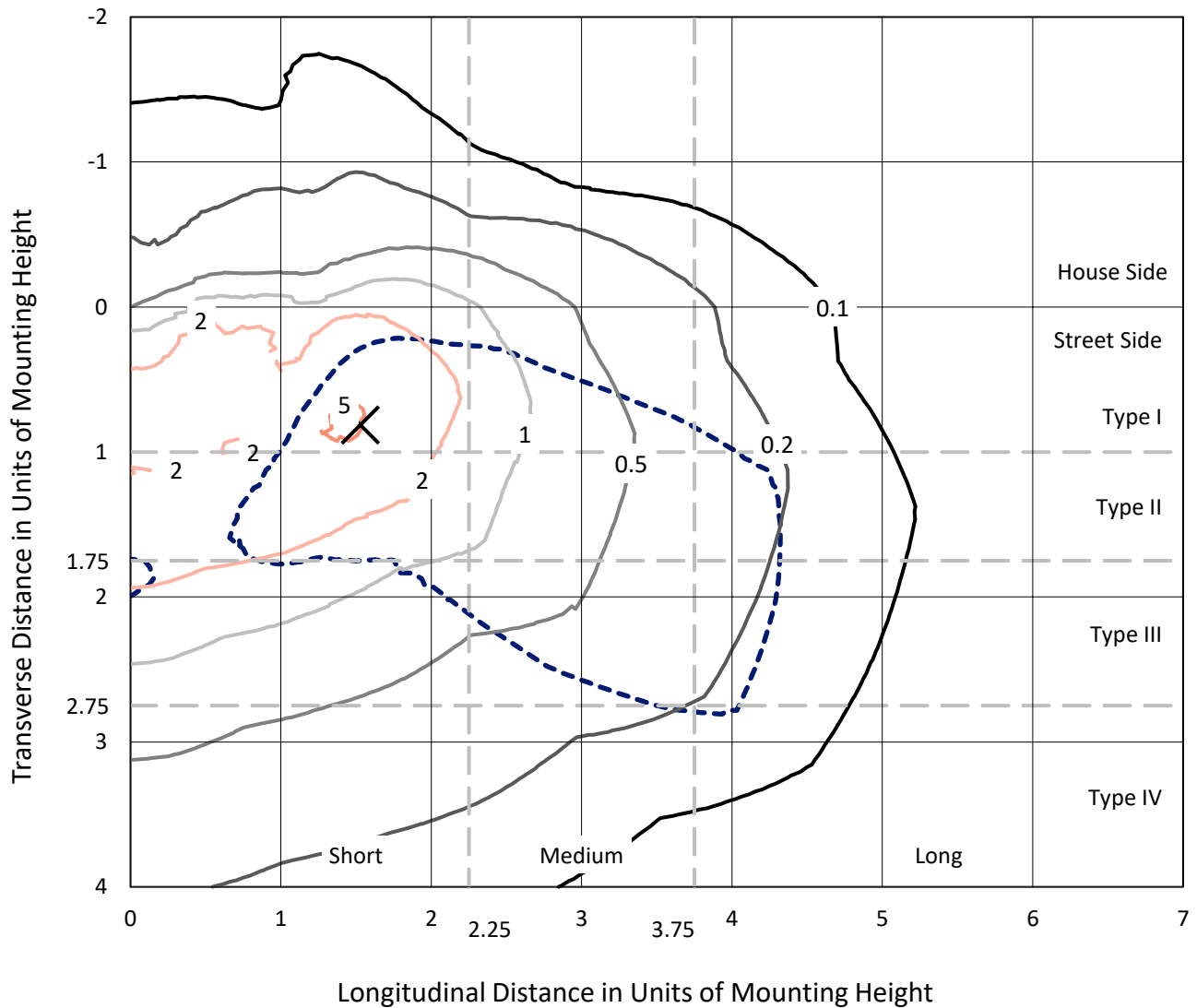
Input Watts (W): 47.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

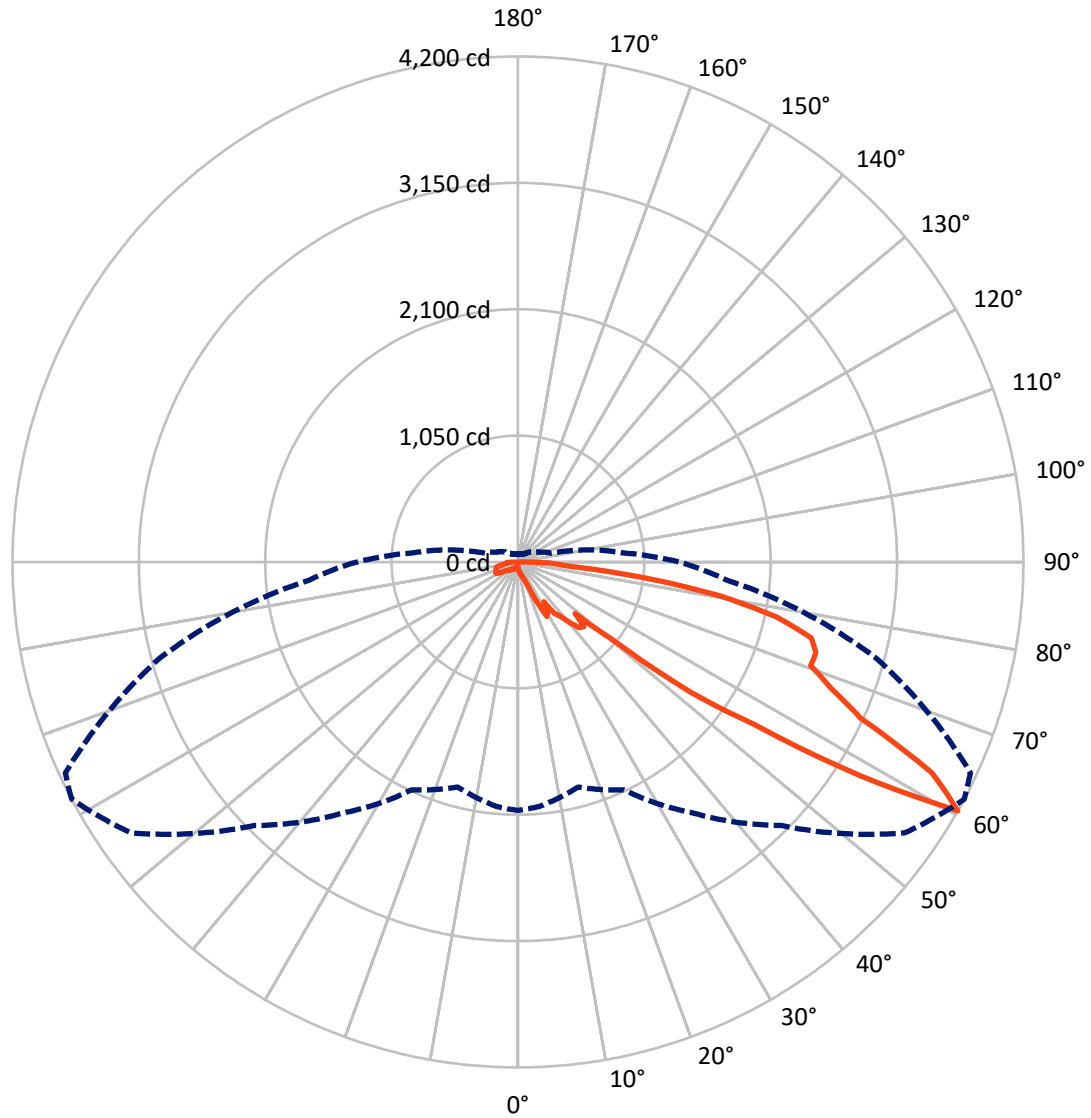
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 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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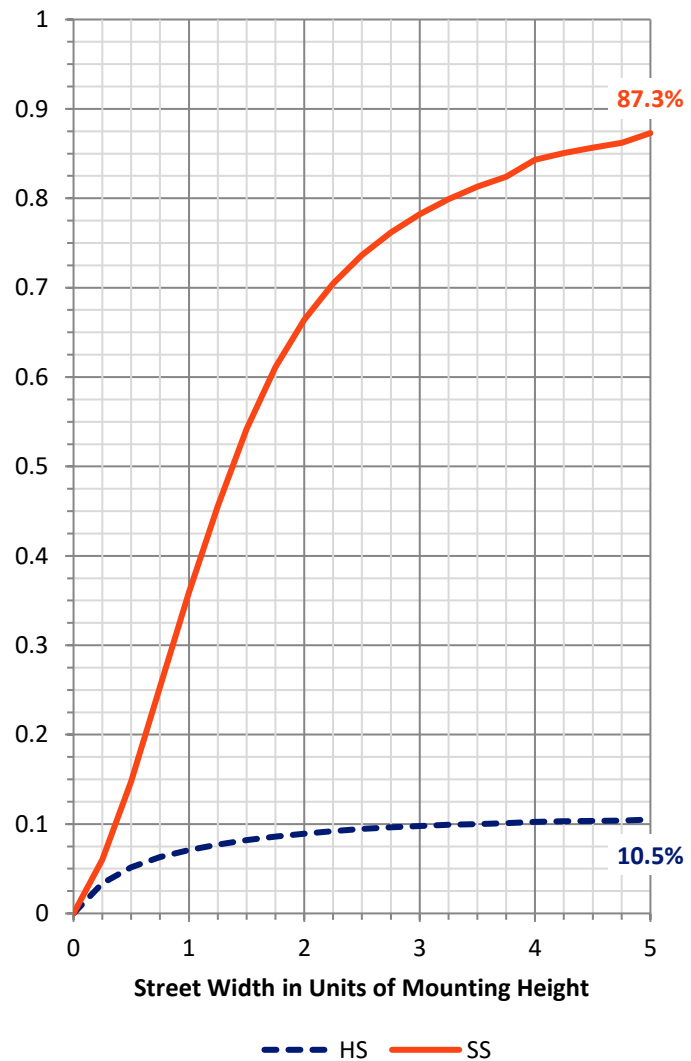
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	454.8	0.0	454.8
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	3711.2	0.0	3711.2
	% Fixture	89.1	0.0	89.1
Total	Lumens	4166.0	0.0	4166.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	0.1
10°-20°	23.7	0.6
20°-30°	88.4	2.1
30°-40°	174.6	4.2
40°-50°	302.1	7.3
50°-60°	894.5	21.5
60°-70°	1321.5	31.7
70°-80°	1060.0	25.4
80°-90°	295.8	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°	4166.0	100.0
0°-180°	4166.0	100.0

Coefficient of Utilization



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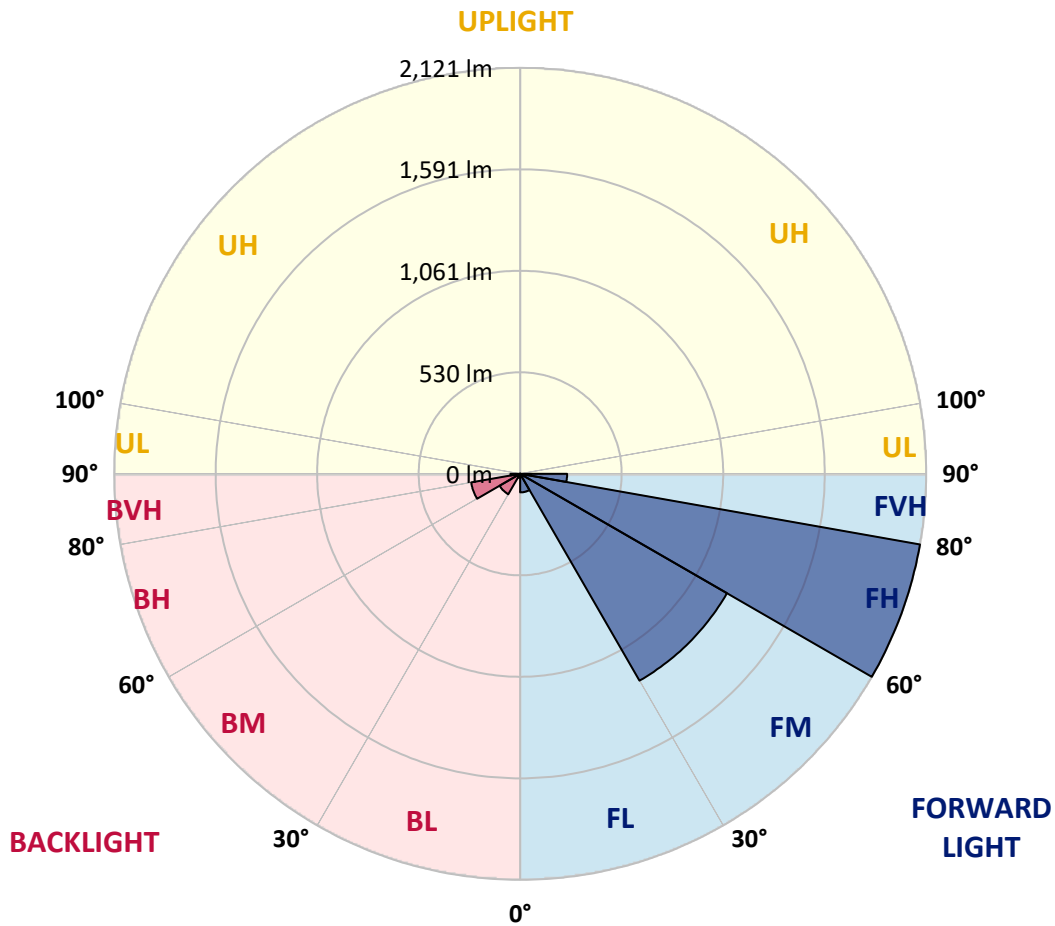
CATALOG NUMBER: ARC-CA6-90-750-U-33-6-5-X-GHSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	97.3	2.3			
FM (30°-60°)	1247.5	29.9			
FH (60°-80°)	2121.3	50.9			G2/5000
FVH (80°-90°)	245.1	5.9			G3/500
BL (0°-30°)	20.3	0.5	B0/110		
BM (30°-60°)	123.6	3.0	B0/220		
BH (60°-80°)	260.1	6.2	B1/500		G1/500
BVH (80°-90°)	50.7	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°	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
2.5°	69.8	68.7	66.4	64.2	63.0	61.9	60.8	59.7	58.5	55.1	52.9
5°	85.5	84.4	82.2	78.8	75.4	73.2	72.0	70.9	68.7	65.3	59.7
7.5°	96.8	96.8	96.8	94.5	91.2	86.7	83.3	81.0	78.8	74.3	68.7
10°	110.3	109.2	109.2	105.8	102.4	99.0	96.8	94.5	92.3	85.5	76.5
12.5°	120.4	119.3	118.2	114.8	113.7	110.3	109.2	104.7	102.4	94.5	83.3
15°	131.7	130.6	128.3	127.2	123.8	121.6	122.7	121.6	119.3	109.2	92.3
17.5°	144.1	142.9	141.8	141.8	141.8	139.6	138.4	136.2	133.9	118.2	97.9
20°	168.8	165.4	162.1	159.8	164.3	165.4	165.4	163.2	163.2	136.2	112.5
22.5°	215.0	211.6	209.3	192.5	199.2	230.7	240.9	229.6	231.8	179.0	123.8
25°	337.6	326.4	320.8	323.0	342.1	377.0	382.7	369.2	375.9	278.0	198.1
27.5°	395.0	397.3	441.2	486.2	491.8	509.8	540.2	512.1	497.5	355.7	247.6
30°	402.9	407.4	488.5	524.5	511.0	502.0	569.5	487.3	462.6	336.5	272.4
32.5°	371.4	391.7	478.3	493.0	461.4	411.9	461.4	392.8	384.9	292.6	258.9
35°	431.1	441.2	480.6	424.3	414.2	475.0	602.1	527.8	509.8	361.3	248.7
37.5°	522.2	518.8	594.3	638.1	622.4	560.5	626.9	570.6	556.0	454.7	355.7
40°	638.1	630.3	721.4	741.7	727.1	723.7	811.5	660.7	632.5	507.6	422.1
42.5°	670.8	673.0	731.6	781.1	769.8	768.7	900.4	745.1	702.3	513.2	463.7
45°	685.4	697.8	810.3	780.0	791.2	771.0	888.0	767.6	731.6	570.6	545.9
47.5°	595.4	602.1	757.4	758.6	615.6	620.1	724.8	639.3	613.4	446.8	470.4
50°	768.7	767.6	823.8	778.8	713.6	826.1	1037.7	1005.1	985.9	670.8	522.2
52.5°	1112.0	1099.6	1185.1	1256.0	1242.5	1502.5	1817.6	1804.1	1735.5	1315.7	825.0
55°	1463.1	1457.5	1552.0	1801.9	1922.3	2166.5	2472.7	2387.1	2361.2	1938.1	1296.5
57.5°	1752.4	1753.5	1783.9	1998.8	2244.2	2716.9	3247.0	3347.2	3294.3	2501.9	1575.7
60°	2064.1	2039.4	1935.8	2088.9	2548.1	3097.3	3924.5	4200.3	4149.6	3078.2	1744.5
62.5°	2085.5	2060.7	1884.0	2039.4	2390.5	2895.9	3638.7	3862.6	3921.2	3234.6	1795.1
65°	1991.0	1960.6	1742.2	1858.2	2001.1	2307.2	3217.7	3128.8	3213.2	3186.2	1794.0
67.5°	1886.3	1861.5	1656.7	1753.5	1863.8	2068.6	3028.7	2806.9	2893.6	2997.1	1878.4
70°	1780.5	1745.6	1580.2	1684.8	1821.0	1959.5	2788.9	2580.7	2558.2	2539.1	1794.0
72.5°	1762.5	1735.5	1559.9	1633.1	1787.3	1889.7	2749.5	2589.7	2567.2	2449.0	1640.9
75°	1625.2	1622.9	1454.1	1522.8	1708.5	1772.6	2640.4	2517.7	2470.4	2318.5	1444.0
77.5°	1312.3	1295.4	1172.7	1244.8	1412.5	1501.4	2272.3	2192.4	2165.4	2023.6	1194.1
80°	882.4	867.7	814.8	856.5	1012.9	1090.6	1705.1	1698.3	1678.1	1584.7	882.4
82.5°	502.0	526.7	477.2	496.3	550.4	646.0	1060.2	1014.1	999.4	933.0	500.8
85°	282.5	276.9	257.7	255.5	298.3	293.7	458.1	392.8	408.5	353.4	238.6
87.5°	203.7	208.2	188.0	188.0	208.2	206.0	288.1	271.2	269.0	252.1	171.1
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°	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
2.5°	51.8	50.6	47.3	43.9	38.3	32.6	29.3	31.5	32.6	33.8	33.8
5°	56.3	54.0	47.3	40.5	33.8	28.1	23.6	21.4	21.4	22.5	22.5
7.5°	66.4	63.0	54.0	46.1	37.1	31.5	25.9	22.5	20.3	20.3	20.3
10°	72.0	68.7	58.5	49.5	40.5	33.8	28.1	23.6	21.4	20.3	20.3
12.5°	77.7	73.2	63.0	52.9	42.8	34.9	29.3	24.8	23.6	23.6	23.6
15°	84.4	77.7	65.3	54.0	43.9	36.0	29.3	25.9	24.8	24.8	24.8
17.5°	91.2	84.4	69.8	55.1	45.0	36.0	30.4	25.9	24.8	25.9	25.9
20°	102.4	90.0	69.8	56.3	45.0	36.0	30.4	25.9	25.9	25.9	25.9
22.5°	108.0	97.9	74.3	57.4	46.1	37.1	30.4	25.9	25.9	25.9	25.9
25°	166.6	123.8	77.7	59.7	47.3	38.3	30.4	27.0	25.9	27.0	27.0
27.5°	209.3	174.4	88.9	63.0	48.4	39.4	31.5	27.0	27.0	28.1	28.1
30°	233.0	199.2	96.8	68.7	51.8	40.5	32.6	28.1	28.1	28.1	28.1
32.5°	221.7	180.1	97.9	75.4	57.4	42.8	33.8	29.3	29.3	29.3	29.3
35°	192.5	148.6	95.7	76.5	60.8	47.3	36.0	30.4	30.4	29.3	29.3
37.5°	269.0	186.8	99.0	76.5	63.0	50.6	39.4	32.6	31.5	30.4	30.4
40°	318.5	208.2	109.2	82.2	63.0	51.8	41.6	36.0	33.8	32.6	31.5
42.5°	353.4	228.5	117.0	90.0	69.8	54.0	42.8	39.4	36.0	33.8	33.8
45°	404.0	242.0	127.2	99.0	76.5	59.7	46.1	40.5	39.4	37.1	36.0
47.5°	369.2	246.5	137.3	109.2	84.4	65.3	50.6	43.9	42.8	40.5	39.4
50°	379.3	239.7	140.7	115.9	92.3	69.8	55.1	48.4	46.1	43.9	43.9
52.5°	517.7	317.4	154.2	119.3	95.7	76.5	59.7	52.9	50.6	48.4	48.4
55°	845.2	486.2	190.2	131.7	99.0	78.8	64.2	58.5	55.1	52.9	51.8
57.5°	1104.1	686.5	240.9	160.9	118.2	83.3	66.4	64.2	61.9	57.4	56.3
60°	1339.3	870.0	283.6	193.6	148.6	108.0	76.5	70.9	69.8	63.0	60.8
62.5°	1530.6	1021.9	318.5	211.6	169.9	139.6	104.7	87.8	78.8	70.9	68.7
65°	1600.4	1072.6	332.0	215.0	175.6	155.3	131.7	119.3	93.4	81.0	78.8
67.5°	1627.4	1061.3	338.8	208.2	171.1	155.3	138.4	139.6	113.7	90.0	86.7
70°	1574.5	1017.4	335.4	201.5	164.3	150.8	135.1	130.6	118.2	96.8	92.3
72.5°	1455.2	976.9	334.3	200.3	162.1	145.2	124.9	111.4	101.3	95.7	93.4
75°	1335.9	949.9	329.8	199.2	158.7	137.3	113.7	96.8	83.3	84.4	86.7
77.5°	1134.5	838.5	305.0	184.6	142.9	119.3	97.9	85.5	75.4	74.3	74.3
80°	857.6	622.4	249.9	154.2	117.0	96.8	81.0	76.5	70.9	68.7	67.5
82.5°	475.0	327.5	160.9	114.8	92.3	75.4	68.7	68.7	65.3	61.9	61.9
85°	217.2	183.5	119.3	95.7	78.8	65.3	59.7	59.7	56.3	52.9	51.8
87.5°	168.8	145.2	101.3	88.9	76.5	64.2	57.4	57.4	54.0	51.8	51.8
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)