

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: P588613

Luminaire Tested: **ARC-CA6-80-727-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588613
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-CA6-80-727-U-33-6-5-X-GHSS
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD
Light Source: (3) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3461 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 0.92')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

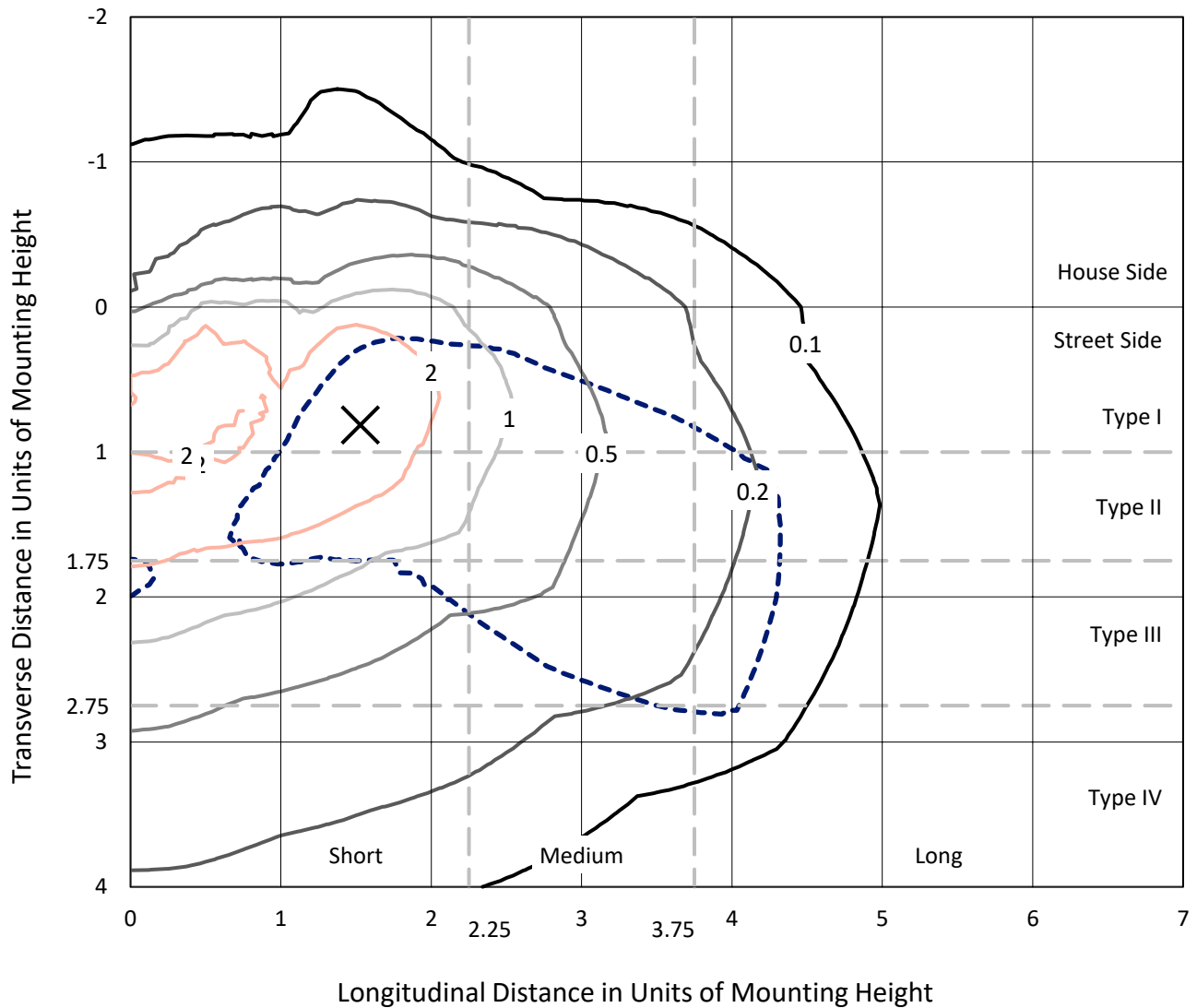
Input Watts (W): 42.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

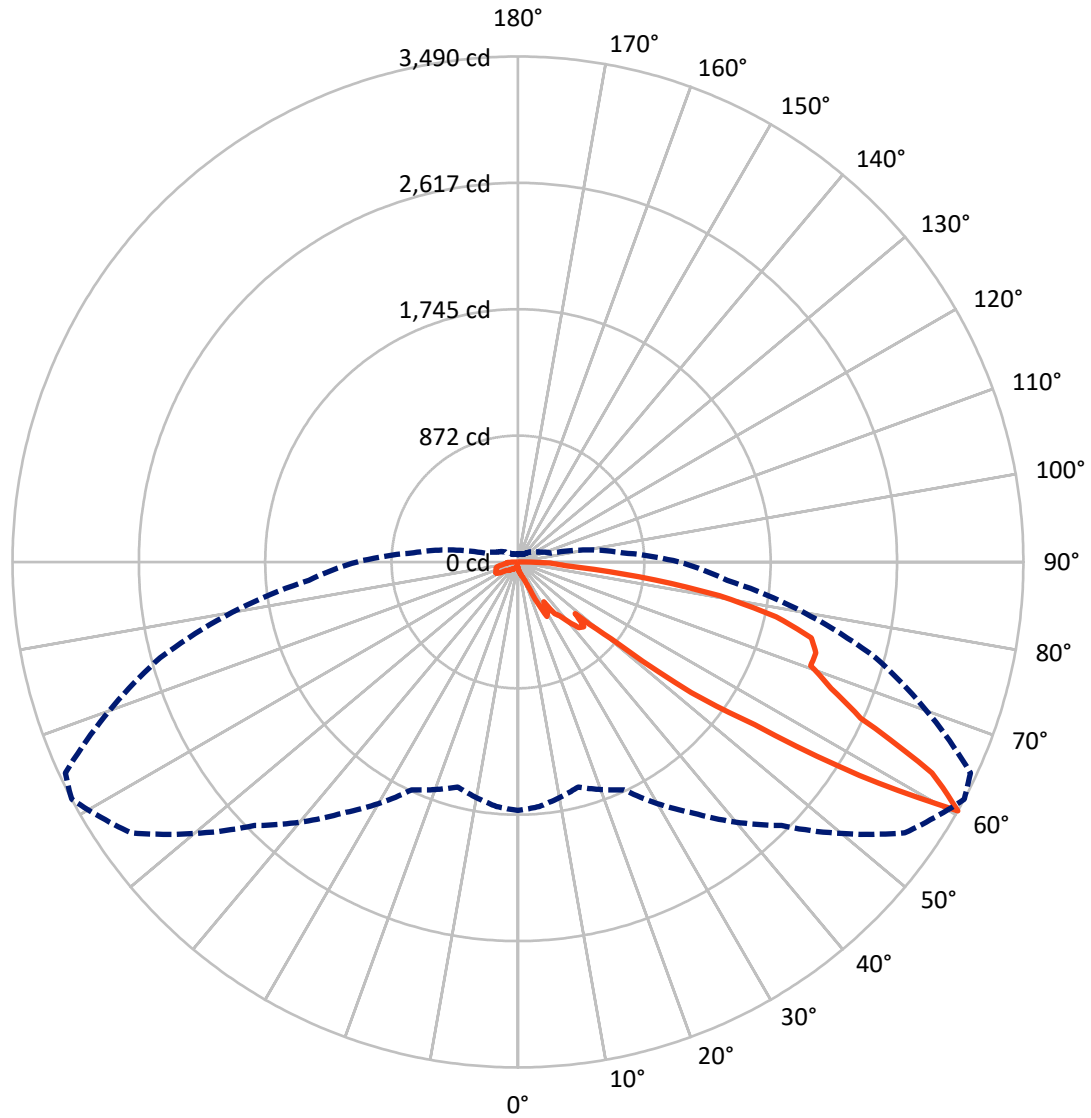
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 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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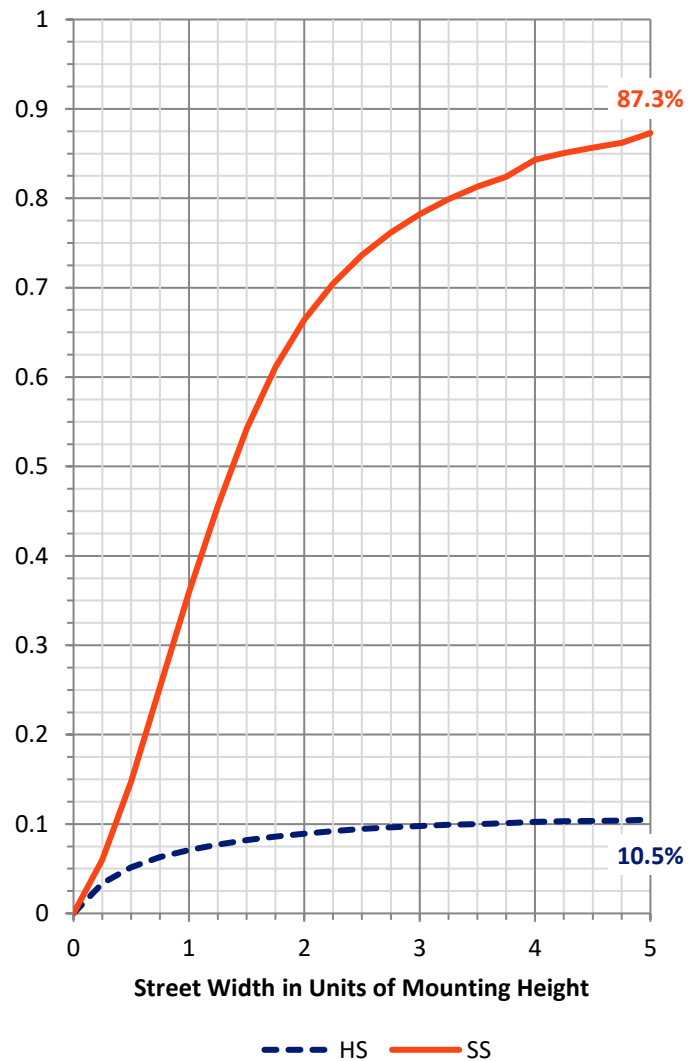
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	377.8	0.0	377.8
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	3083.2	0.0	3083.2
	% Fixture	89.1	0.0	89.1
Total	Lumens	3461.0	0.0	3461.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.6	0.1
10°-20°	19.7	0.6
20°-30°	73.4	2.1
30°-40°	145.0	4.2
40°-50°	251.0	7.3
50°-60°	743.1	21.5
60°-70°	1097.9	31.7
70°-80°	880.6	25.4
80°-90°	245.7	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°	3461.0	100.0
0°-180°	3461.0	100.0

Coefficient of Utilization



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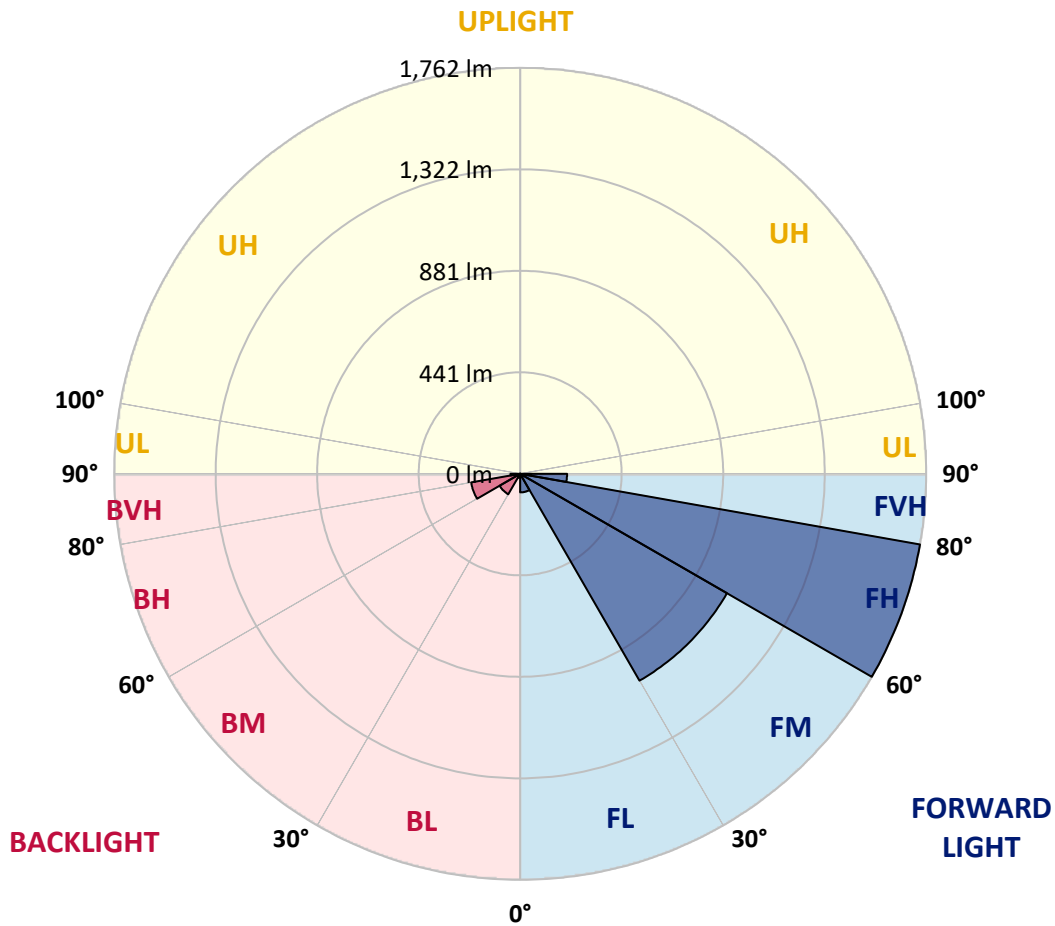
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	80.8	2.3			
FM (30°-60°)	1036.4	29.9			
FH (60°-80°)	1762.3	50.9			G1/1800
FVH (80°-90°)	203.6	5.9			G2/225
BL (0°-30°)	16.9	0.5	B0/110		
BM (30°-60°)	102.7	3.0	B0/220		
BH (60°-80°)	216.1	6.2	B1/500		G1/500
BVH (80°-90°)	42.1	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
2.5°	58.0	57.0	55.2	53.3	52.4	51.4	50.5	49.6	48.6	45.8	43.9
5°	71.1	70.1	68.3	65.5	62.6	60.8	59.8	58.9	57.0	54.2	49.6
7.5°	80.4	80.4	80.4	78.5	75.7	72.0	69.2	67.3	65.5	61.7	57.0
10°	91.6	90.7	90.7	87.9	85.1	82.3	80.4	78.5	76.7	71.1	63.6
12.5°	100.0	99.1	98.2	95.4	94.4	91.6	90.7	87.0	85.1	78.5	69.2
15°	109.4	108.5	106.6	105.7	102.9	101.0	101.9	101.0	99.1	90.7	76.7
17.5°	119.7	118.7	117.8	117.8	117.8	115.9	115.0	113.1	111.3	98.2	81.3
20°	140.3	137.4	134.6	132.8	136.5	137.4	137.4	135.6	135.6	113.1	93.5
22.5°	178.6	175.8	173.9	159.9	165.5	191.7	200.1	190.7	192.6	148.7	102.9
25°	280.5	271.2	266.5	268.3	284.2	313.2	317.9	306.7	312.3	230.9	164.6
27.5°	328.2	330.1	366.5	403.9	408.6	423.6	448.8	425.4	413.3	295.5	205.7
30°	334.7	338.5	405.8	435.7	424.5	417.0	473.1	404.9	384.3	279.6	226.3
32.5°	308.6	325.4	397.4	409.5	383.4	342.2	383.4	326.3	319.8	243.1	215.1
35°	358.1	366.5	399.3	352.5	344.1	394.6	500.2	438.5	423.6	300.1	206.6
37.5°	433.8	431.0	493.7	530.2	517.1	465.6	520.8	474.1	461.9	377.7	295.5
40°	530.2	523.6	599.3	616.2	604.0	601.2	674.1	548.9	525.5	421.7	350.6
42.5°	557.3	559.1	607.8	648.9	639.6	638.6	748.0	619.0	583.4	426.4	385.2
45°	569.4	579.7	673.2	648.0	657.3	640.5	737.7	637.7	607.8	474.1	453.5
47.5°	494.6	500.2	629.3	630.2	511.5	515.2	602.1	531.1	509.6	371.2	390.8
50°	638.6	637.7	684.4	647.0	592.8	686.3	862.1	835.0	819.1	557.3	433.8
52.5°	923.8	913.5	984.6	1043.5	1032.3	1248.2	1510.0	1498.8	1441.8	1093.0	685.4
55°	1215.5	1210.8	1289.4	1497.0	1597.0	1799.9	2054.2	1983.2	1961.7	1610.1	1077.1
57.5°	1455.8	1456.8	1482.0	1660.6	1864.4	2257.1	2697.5	2780.7	2736.8	2078.5	1309.0
60°	1714.8	1694.2	1608.2	1735.4	2116.9	2573.2	3260.4	3489.5	3447.4	2557.3	1449.3
62.5°	1732.6	1712.0	1565.2	1694.2	1986.0	2405.8	3022.9	3209.0	3257.6	2687.2	1491.3
65°	1654.0	1628.8	1447.4	1543.7	1662.5	1916.8	2673.2	2599.3	2669.5	2647.0	1490.4
67.5°	1567.1	1546.5	1376.3	1456.8	1548.4	1718.6	2516.1	2331.9	2403.9	2489.9	1560.5
70°	1479.2	1450.2	1312.8	1399.7	1512.9	1627.9	2317.0	2144.0	2125.3	2109.4	1490.4
72.5°	1464.2	1441.8	1295.9	1356.7	1484.8	1569.9	2284.2	2151.5	2132.8	2034.6	1363.3
75°	1350.2	1348.3	1208.0	1265.1	1419.4	1472.6	2193.5	2091.6	2052.4	1926.1	1199.6
77.5°	1090.2	1076.2	974.3	1034.1	1173.4	1247.3	1887.8	1821.4	1799.0	1681.2	992.1
80°	733.1	720.9	677.0	711.5	841.5	906.0	1416.5	1410.9	1394.1	1316.5	733.1
82.5°	417.0	437.6	396.4	412.3	457.2	536.7	880.8	842.4	830.3	775.1	416.1
85°	234.7	230.0	214.1	212.2	247.8	244.0	380.6	326.3	339.4	293.6	198.2
87.5°	169.2	173.0	156.1	156.1	173.0	171.1	239.4	225.3	223.5	209.4	142.1
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°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
2.5°	43.0	42.1	39.3	36.5	31.8	27.1	24.3	26.2	27.1	28.1	28.1
5°	46.8	44.9	39.3	33.7	28.1	23.4	19.6	17.8	17.8	18.7	18.7
7.5°	55.2	52.4	44.9	38.3	30.9	26.2	21.5	18.7	16.8	16.8	16.8
10°	59.8	57.0	48.6	41.1	33.7	28.1	23.4	19.6	17.8	16.8	16.8
12.5°	64.5	60.8	52.4	43.9	35.5	29.0	24.3	20.6	19.6	19.6	19.6
15°	70.1	64.5	54.2	44.9	36.5	29.9	24.3	21.5	20.6	20.6	20.6
17.5°	75.7	70.1	58.0	45.8	37.4	29.9	25.2	21.5	20.6	21.5	21.5
20°	85.1	74.8	58.0	46.8	37.4	29.9	25.2	21.5	21.5	21.5	21.5
22.5°	89.8	81.3	61.7	47.7	38.3	30.9	25.2	21.5	21.5	21.5	21.5
25°	138.4	102.9	64.5	49.6	39.3	31.8	25.2	22.4	21.5	22.4	22.4
27.5°	173.9	144.9	73.9	52.4	40.2	32.7	26.2	22.4	22.4	23.4	23.4
30°	193.5	165.5	80.4	57.0	43.0	33.7	27.1	23.4	23.4	23.4	23.4
32.5°	184.2	149.6	81.3	62.6	47.7	35.5	28.1	24.3	24.3	24.3	24.3
35°	159.9	123.4	79.5	63.6	50.5	39.3	29.9	25.2	25.2	24.3	24.3
37.5°	223.5	155.2	82.3	63.6	52.4	42.1	32.7	27.1	26.2	25.2	25.2
40°	264.6	173.0	90.7	68.3	52.4	43.0	34.6	29.9	28.1	27.1	26.2
42.5°	293.6	189.8	97.2	74.8	58.0	44.9	35.5	32.7	29.9	28.1	28.1
45°	335.7	201.0	105.7	82.3	63.6	49.6	38.3	33.7	32.7	30.9	29.9
47.5°	306.7	204.8	114.1	90.7	70.1	54.2	42.1	36.5	35.5	33.7	32.7
50°	315.1	199.2	116.9	96.3	76.7	58.0	45.8	40.2	38.3	36.5	36.5
52.5°	430.1	263.7	128.1	99.1	79.5	63.6	49.6	43.9	42.1	40.2	40.2
55°	702.2	403.9	158.0	109.4	82.3	65.5	53.3	48.6	45.8	43.9	43.0
57.5°	917.3	570.4	200.1	133.7	98.2	69.2	55.2	53.3	51.4	47.7	46.8
60°	1112.7	722.8	235.6	160.8	123.4	89.8	63.6	58.9	58.0	52.4	50.5
62.5°	1271.6	849.0	264.6	175.8	141.2	115.9	87.0	72.9	65.5	58.9	57.0
65°	1329.6	891.1	275.8	178.6	145.9	129.0	109.4	99.1	77.6	67.3	65.5
67.5°	1352.0	881.7	281.4	173.0	142.1	129.0	115.0	115.9	94.4	74.8	72.0
70°	1308.1	845.3	278.6	167.4	136.5	125.3	112.2	108.5	98.2	80.4	76.7
72.5°	1209.0	811.6	277.7	166.4	134.6	120.6	103.8	92.6	84.2	79.5	77.6
75°	1109.9	789.2	274.0	165.5	131.8	114.1	94.4	80.4	69.2	70.1	72.0
77.5°	942.5	696.6	253.4	153.3	118.7	99.1	81.3	71.1	62.6	61.7	61.7
80°	712.5	517.1	207.6	128.1	97.2	80.4	67.3	63.6	58.9	57.0	56.1
82.5°	394.6	272.1	133.7	95.4	76.7	62.6	57.0	57.0	54.2	51.4	51.4
85°	180.5	152.4	99.1	79.5	65.5	54.2	49.6	49.6	46.8	43.9	43.0
87.5°	140.3	120.6	84.2	73.9	63.6	53.3	47.7	47.7	44.9	43.0	43.0
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)