

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: P588625

Luminaire Tested: **ARC-CA6-90-727-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588625
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-CA6-90-727-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: 3825 lumens
Efficiency: N/A
Efficacy: 81.0 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

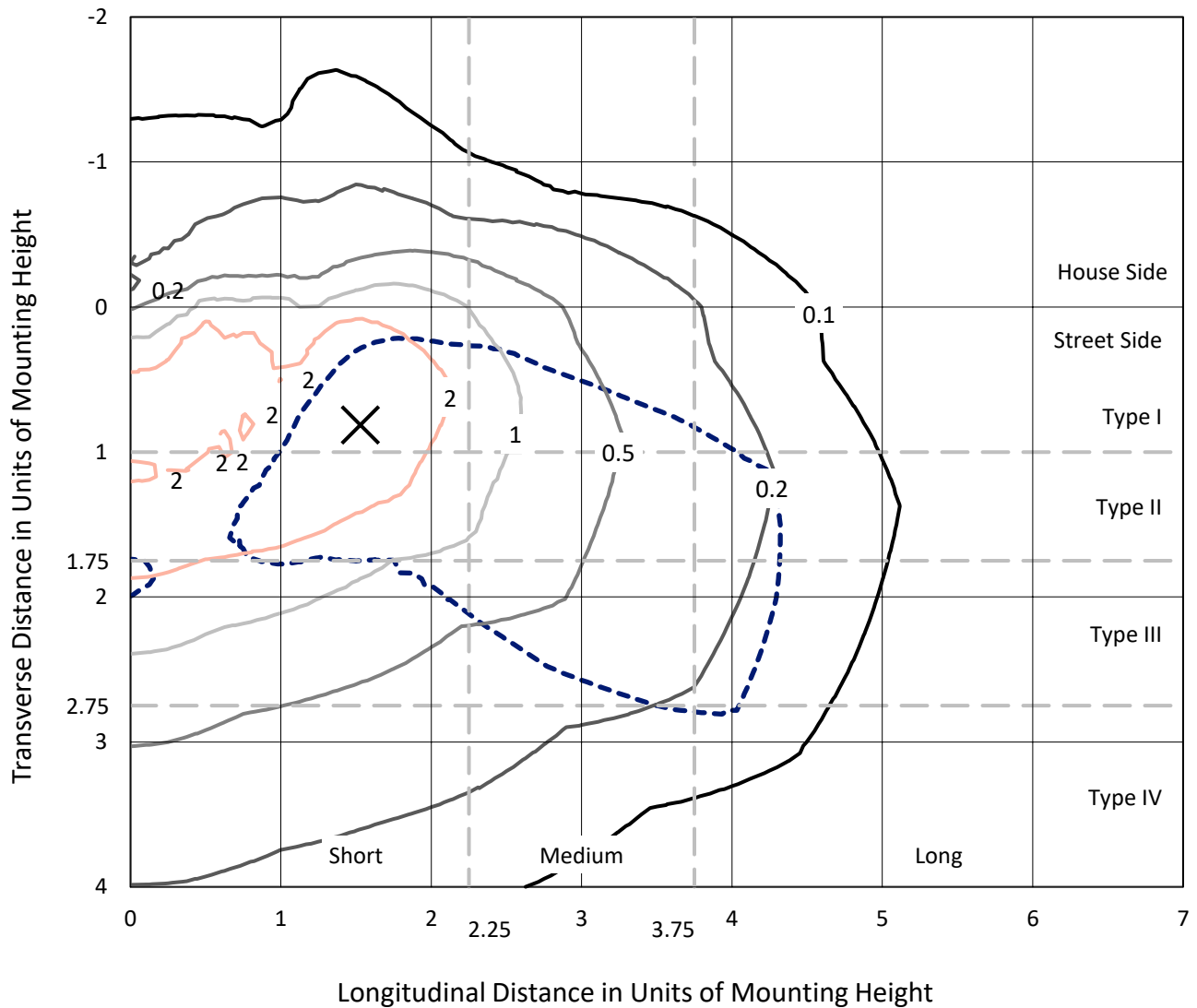
Input Watts (W): 47.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

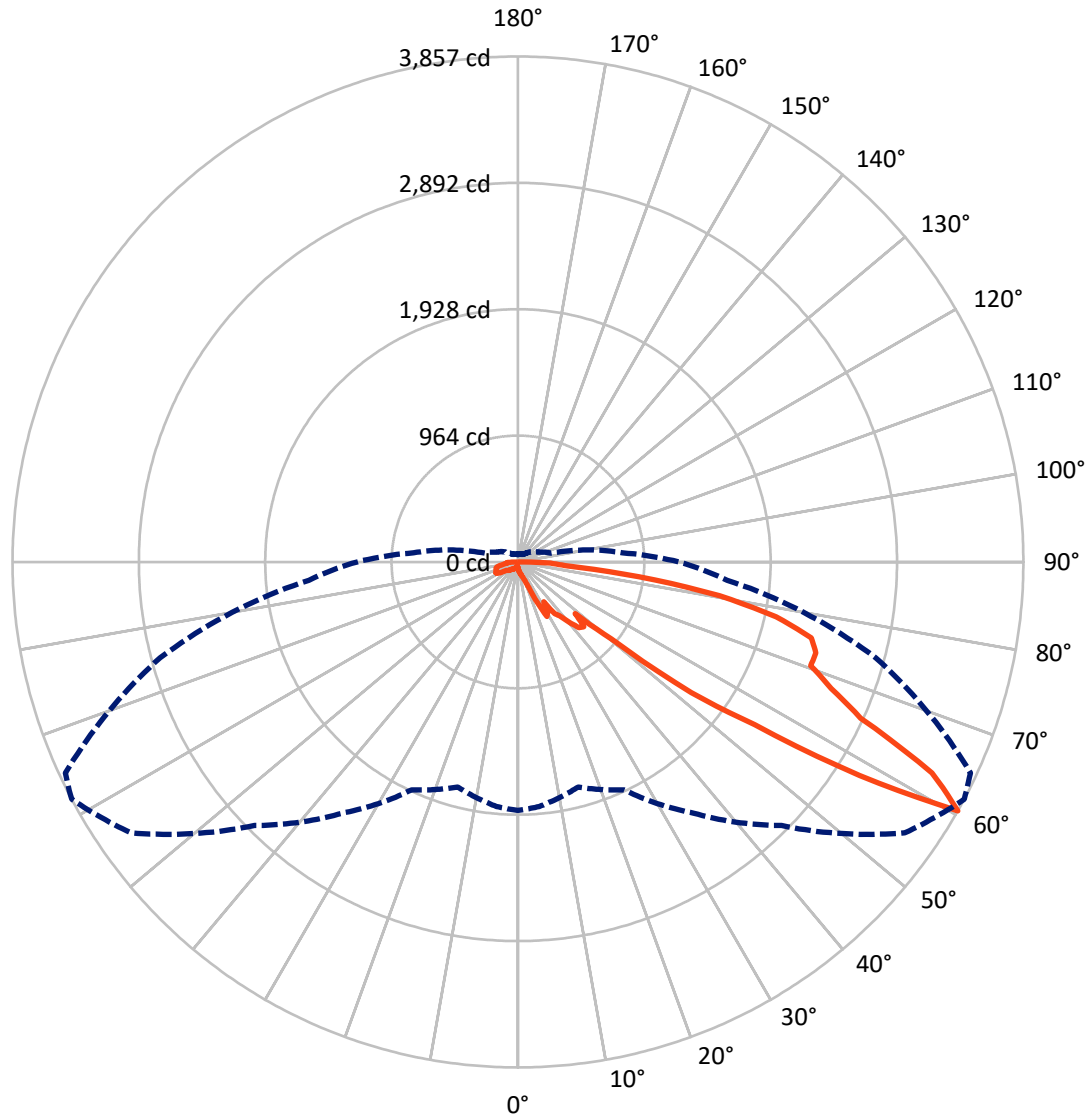
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 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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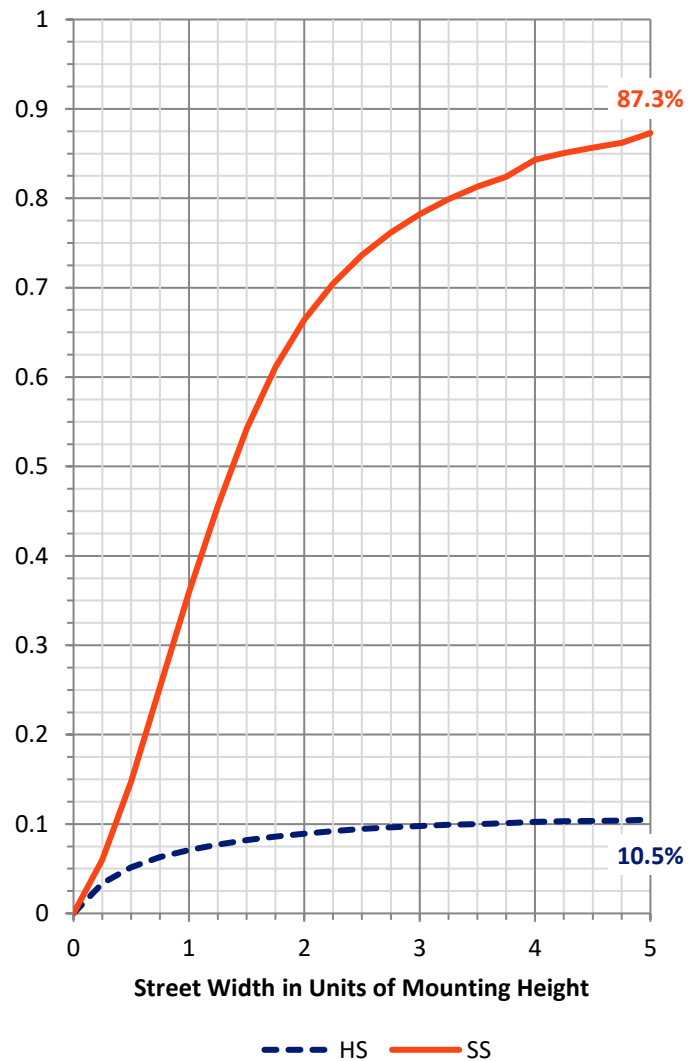
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	417.5	0.0	417.5
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	3407.4	0.0	3407.4
	% Fixture	89.1	0.0	89.1
Total	Lumens	3825.0	0.0	3825.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.1	0.1
10°-20°	21.7	0.6
20°-30°	81.1	2.1
30°-40°	160.3	4.2
40°-50°	277.3	7.3
50°-60°	821.3	21.5
60°-70°	1213.3	31.7
70°-80°	973.2	25.4
80°-90°	271.6	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°	3825.0	100.0
0°-180°	3825.0	100.0

Coefficient of Utilization



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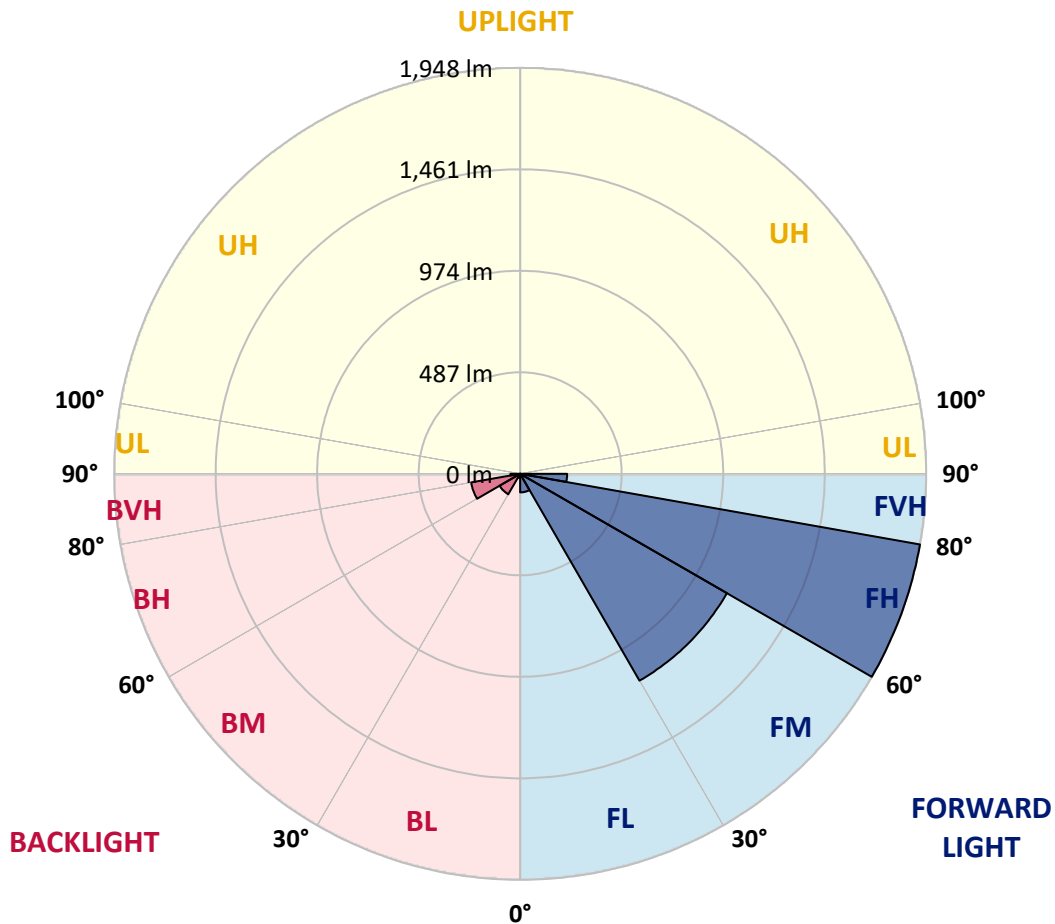
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	89.3	2.3			
FM (30°-60°)	1145.4	29.9			
FH (60°-80°)	1947.7	50.9			G2/5000
FVH (80°-90°)	225.0	5.9			G3/500
BL (0°-30°)	18.6	0.5	B0/110		
BM (30°-60°)	113.5	3.0	B0/220		
BH (60°-80°)	238.8	6.2	B1/500		G1/500
BVH (80°-90°)	46.5	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°	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
2.5°	64.1	63.0	61.0	58.9	57.9	56.8	55.8	54.8	53.7	50.6	48.6
5°	78.5	77.5	75.4	72.3	69.2	67.2	66.1	65.1	63.0	59.9	54.8
7.5°	88.9	88.9	88.9	86.8	83.7	79.6	76.5	74.4	72.3	68.2	63.0
10°	101.3	100.2	100.2	97.1	94.0	90.9	88.9	86.8	84.7	78.5	70.3
12.5°	110.6	109.5	108.5	105.4	104.4	101.3	100.2	96.1	94.0	86.8	76.5
15°	120.9	119.9	117.8	116.8	113.7	111.6	112.6	111.6	109.5	100.2	84.7
17.5°	132.3	131.2	130.2	130.2	130.2	128.1	127.1	125.0	123.0	108.5	89.9
20°	155.0	151.9	148.8	146.7	150.9	151.9	151.9	149.8	149.8	125.0	103.3
22.5°	197.4	194.3	192.2	176.7	182.9	211.8	221.1	210.8	212.9	164.3	113.7
25°	310.0	299.7	294.5	296.6	314.1	346.2	351.3	338.9	345.1	255.2	181.9
27.5°	362.7	364.8	405.1	446.4	451.6	468.1	496.0	470.2	456.7	326.5	227.3
30°	369.9	374.1	448.5	481.5	469.1	460.9	522.9	447.4	424.7	309.0	250.1
32.5°	341.0	359.6	439.2	452.6	423.7	378.2	423.7	360.6	353.4	268.7	237.7
35°	395.8	405.1	441.2	389.6	380.3	436.1	552.8	484.6	468.1	331.7	228.4
37.5°	479.5	476.4	545.6	585.9	571.4	514.6	575.6	523.9	510.5	417.5	326.5
40°	585.9	578.7	662.4	681.0	667.5	664.4	745.0	606.6	580.7	466.0	387.5
42.5°	615.9	617.9	671.7	717.1	706.8	705.8	826.7	684.1	644.8	471.2	425.7
45°	629.3	640.7	744.0	716.1	726.4	707.8	815.3	704.7	671.7	523.9	501.2
47.5°	546.6	552.8	695.4	696.5	565.2	569.4	665.5	586.9	563.2	410.2	431.9
50°	705.8	704.7	756.4	715.1	655.1	758.5	952.8	922.8	905.2	615.9	479.5
52.5°	1021.0	1009.6	1088.1	1153.2	1140.8	1379.5	1668.9	1656.5	1593.4	1208.0	757.4
55°	1343.4	1338.2	1425.0	1654.4	1765.0	1989.2	2270.3	2191.7	2168.0	1779.4	1190.4
57.5°	1608.9	1610.0	1637.9	1835.2	2060.5	2494.5	2981.2	3073.2	3024.6	2297.1	1446.7
60°	1895.2	1872.4	1777.4	1917.9	2339.5	2843.8	3603.3	3856.5	3810.0	2826.2	1601.7
62.5°	1914.8	1892.1	1729.8	1872.4	2194.8	2658.8	3340.8	3546.5	3600.2	2969.9	1648.2
65°	1828.0	1800.1	1599.6	1706.1	1837.3	2118.4	2954.4	2872.7	2950.2	2925.4	1647.2
67.5°	1731.9	1709.2	1521.1	1610.0	1711.2	1899.3	2780.8	2577.2	2656.8	2751.8	1724.7
70°	1634.8	1602.7	1450.8	1546.9	1672.0	1799.1	2560.6	2369.5	2348.8	2331.2	1647.2
72.5°	1618.2	1593.4	1432.2	1499.4	1641.0	1735.0	2524.5	2377.7	2357.1	2248.6	1506.6
75°	1492.2	1490.1	1335.1	1398.1	1568.6	1627.5	2424.2	2311.6	2268.2	2128.7	1325.8
77.5°	1204.9	1189.4	1076.8	1142.9	1296.9	1378.5	2086.3	2013.0	1988.2	1858.0	1096.4
80°	810.1	796.7	748.1	786.4	930.0	1001.3	1565.5	1559.3	1540.7	1455.0	810.1
82.5°	460.9	483.6	438.1	455.7	505.3	593.1	973.4	931.1	917.6	856.6	459.8
85°	259.4	254.2	236.6	234.6	273.8	269.7	420.6	360.6	375.1	324.5	219.1
87.5°	187.0	191.2	172.6	172.6	191.2	189.1	264.5	249.0	247.0	231.5	157.1
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°	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
2.5°	47.5	46.5	43.4	40.3	35.1	30.0	26.9	28.9	30.0	31.0	31.0
5°	51.7	49.6	43.4	37.2	31.0	25.8	21.7	19.6	19.6	20.7	20.7
7.5°	61.0	57.9	49.6	42.4	34.1	28.9	23.8	20.7	18.6	18.6	18.6
10°	66.1	63.0	53.7	45.5	37.2	31.0	25.8	21.7	19.6	18.6	18.6
12.5°	71.3	67.2	57.9	48.6	39.3	32.0	26.9	22.7	21.7	21.7	21.7
15°	77.5	71.3	59.9	49.6	40.3	33.1	26.9	23.8	22.7	22.7	22.7
17.5°	83.7	77.5	64.1	50.6	41.3	33.1	27.9	23.8	22.7	23.8	23.8
20°	94.0	82.7	64.1	51.7	41.3	33.1	27.9	23.8	23.8	23.8	23.8
22.5°	99.2	89.9	68.2	52.7	42.4	34.1	27.9	23.8	23.8	23.8	23.8
25°	152.9	113.7	71.3	54.8	43.4	35.1	27.9	24.8	23.8	24.8	24.8
27.5°	192.2	160.2	81.6	57.9	44.4	36.2	28.9	24.8	24.8	25.8	25.8
30°	213.9	182.9	88.9	63.0	47.5	37.2	30.0	25.8	25.8	25.8	25.8
32.5°	203.6	165.3	89.9	69.2	52.7	39.3	31.0	26.9	26.9	26.9	26.9
35°	176.7	136.4	87.8	70.3	55.8	43.4	33.1	27.9	27.9	26.9	26.9
37.5°	247.0	171.5	90.9	70.3	57.9	46.5	36.2	30.0	28.9	27.9	27.9
40°	292.4	191.2	100.2	75.4	57.9	47.5	38.2	33.1	31.0	30.0	28.9
42.5°	324.5	209.8	107.5	82.7	64.1	49.6	39.3	36.2	33.1	31.0	31.0
45°	371.0	222.2	116.8	90.9	70.3	54.8	42.4	37.2	36.2	34.1	33.1
47.5°	338.9	226.3	126.1	100.2	77.5	59.9	46.5	40.3	39.3	37.2	36.2
50°	348.2	220.1	129.2	106.4	84.7	64.1	50.6	44.4	42.4	40.3	40.3
52.5°	475.3	291.4	141.6	109.5	87.8	70.3	54.8	48.6	46.5	44.4	44.4
55°	776.0	446.4	174.6	120.9	90.9	72.3	58.9	53.7	50.6	48.6	47.5
57.5°	1013.7	630.3	221.1	147.8	108.5	76.5	61.0	58.9	56.8	52.7	51.7
60°	1229.7	798.8	260.4	177.7	136.4	99.2	70.3	65.1	64.1	57.9	55.8
62.5°	1405.4	938.3	292.4	194.3	156.0	128.1	96.1	80.6	72.3	65.1	63.0
65°	1469.4	984.8	304.8	197.4	161.2	142.6	120.9	109.5	85.8	74.4	72.3
67.5°	1494.2	974.5	311.0	191.2	157.1	142.6	127.1	128.1	104.4	82.7	79.6
70°	1445.7	934.2	307.9	185.0	150.9	138.5	124.0	119.9	108.5	88.9	84.7
72.5°	1336.1	897.0	306.9	183.9	148.8	133.3	114.7	102.3	93.0	87.8	85.8
75°	1226.6	872.1	302.8	182.9	145.7	126.1	104.4	88.9	76.5	77.5	79.6
77.5°	1041.6	769.8	280.0	169.5	131.2	109.5	89.9	78.5	69.2	68.2	68.2
80°	787.4	571.4	229.4	141.6	107.5	88.9	74.4	70.3	65.1	63.0	62.0
82.5°	436.1	300.7	147.8	105.4	84.7	69.2	63.0	63.0	59.9	56.8	56.8
85°	199.4	168.4	109.5	87.8	72.3	59.9	54.8	54.8	51.7	48.6	47.5
87.5°	155.0	133.3	93.0	81.6	70.3	58.9	52.7	52.7	49.6	47.5	47.5
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)