

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: P588565

Luminaire Tested: **ARC-CA6-100-727-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588565
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-CA6-100-727-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: 4177 lumens
Efficiency: N/A
Efficacy: 80.0 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

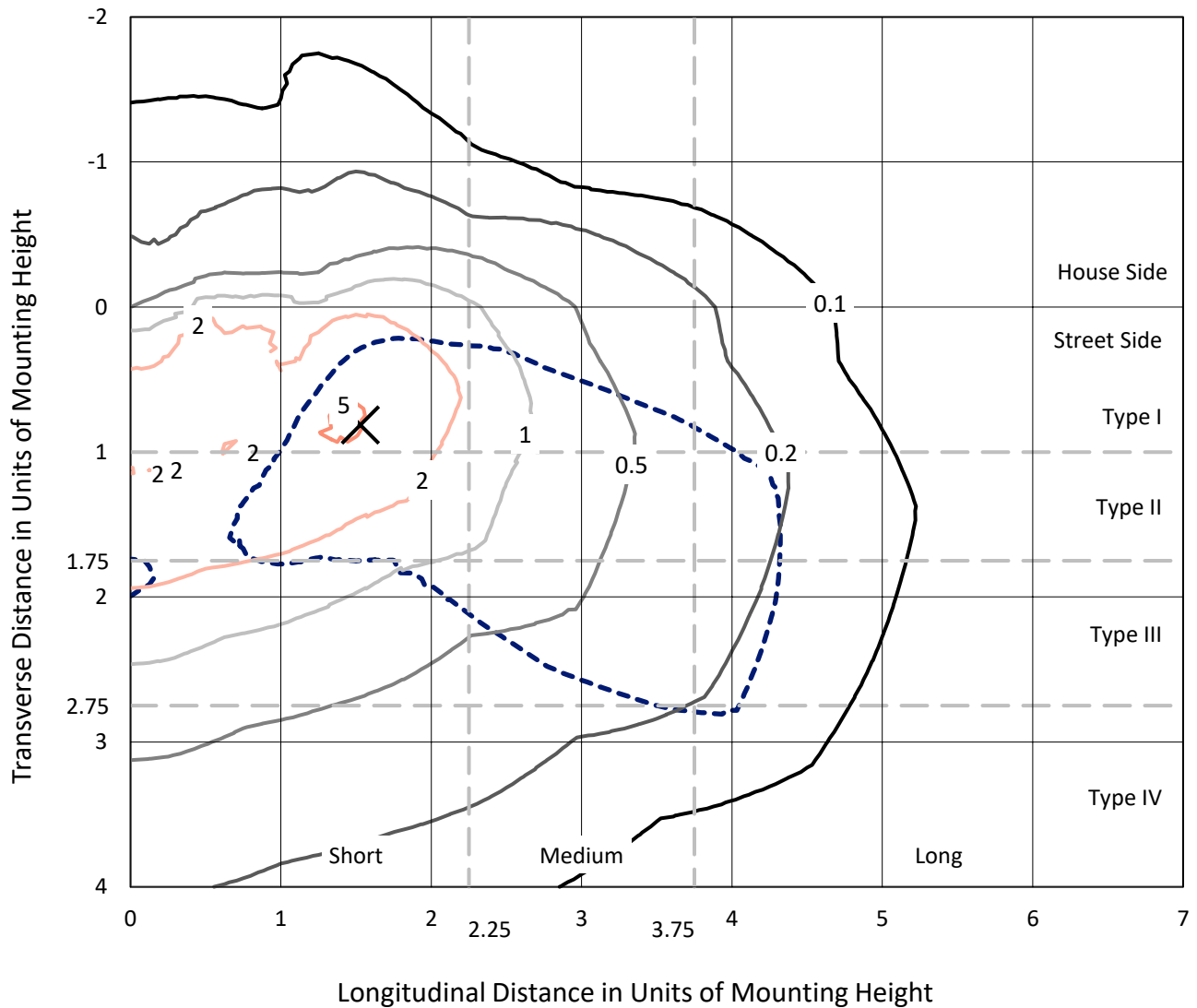
Input Watts (W): 52.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

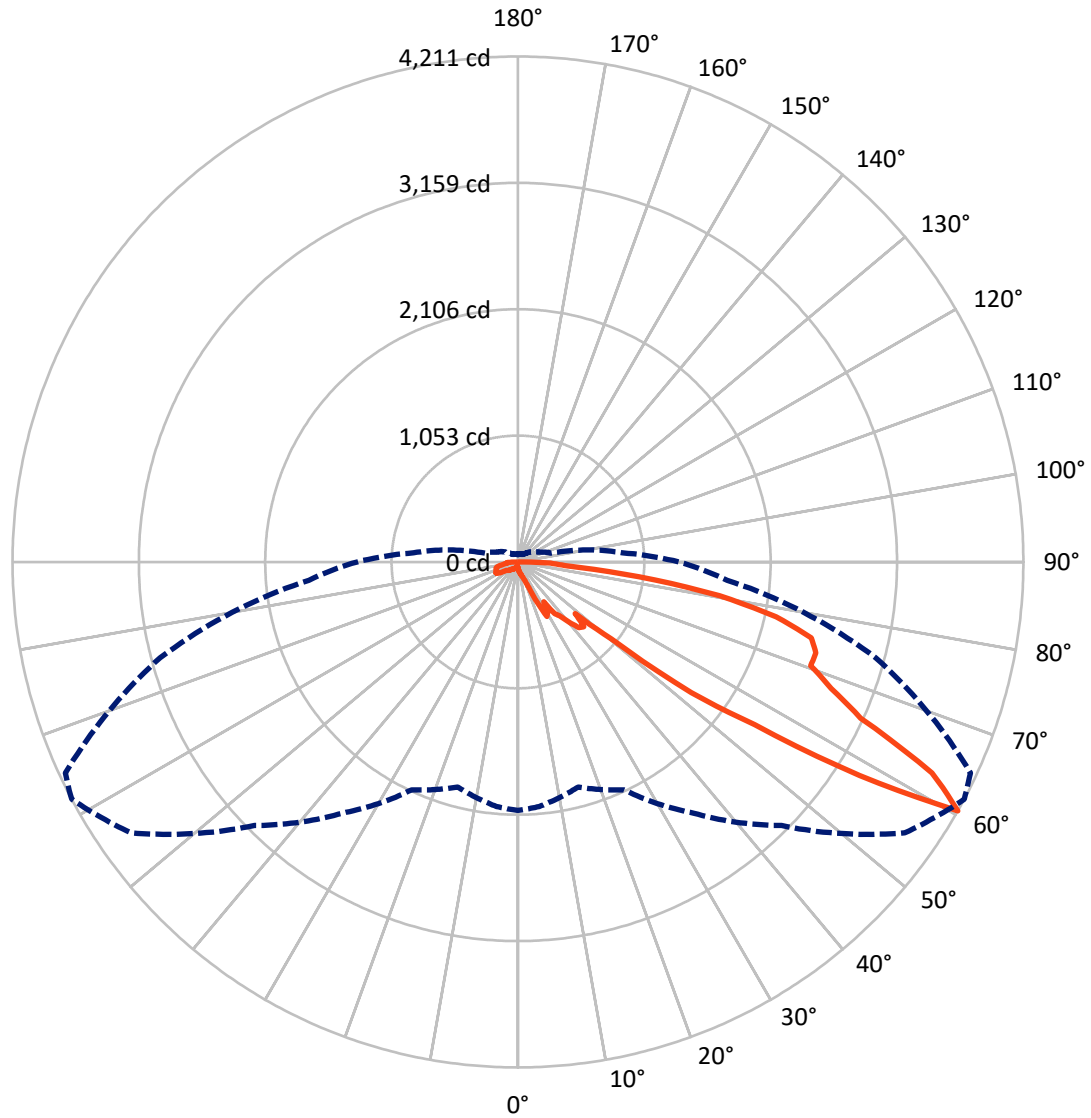
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.3 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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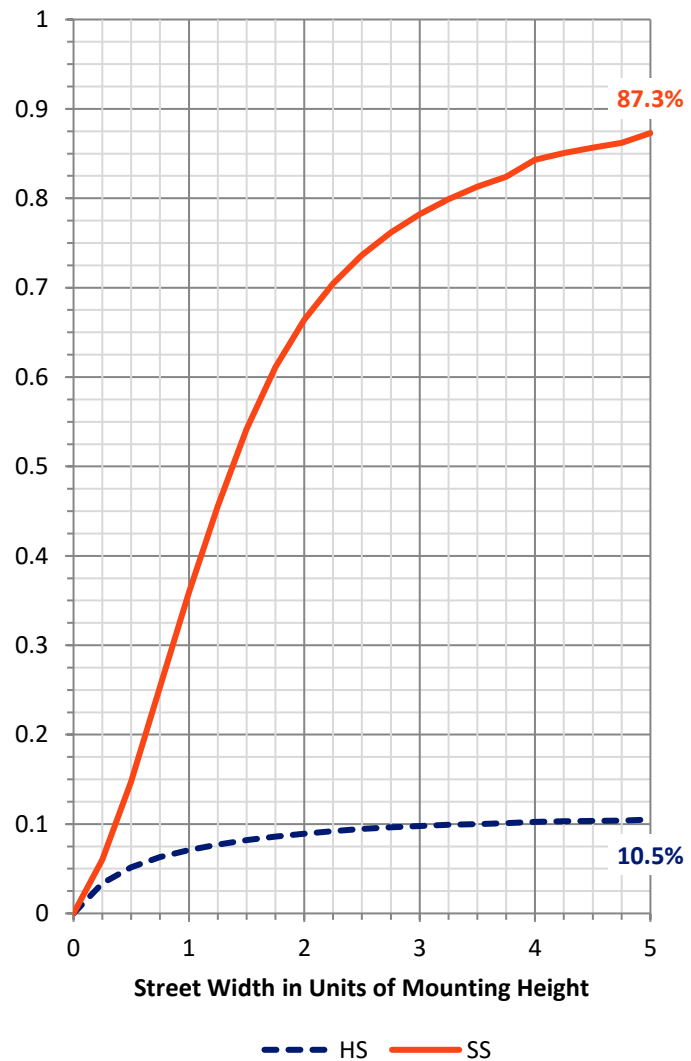
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	456.0	0.0	456.0
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	3721.0	0.0	3721.0
	% Fixture	89.1	0.0	89.1
Total	Lumens	4177.0	0.0	4177.0
	% 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°	88.6	2.1
30°-40°	175.0	4.2
40°-50°	302.9	7.3
50°-60°	896.9	21.5
60°-70°	1325.0	31.7
70°-80°	1062.8	25.4
80°-90°	296.6	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°	4177.0	100.0
0°-180°	4177.0	100.0

Coefficient of Utilization



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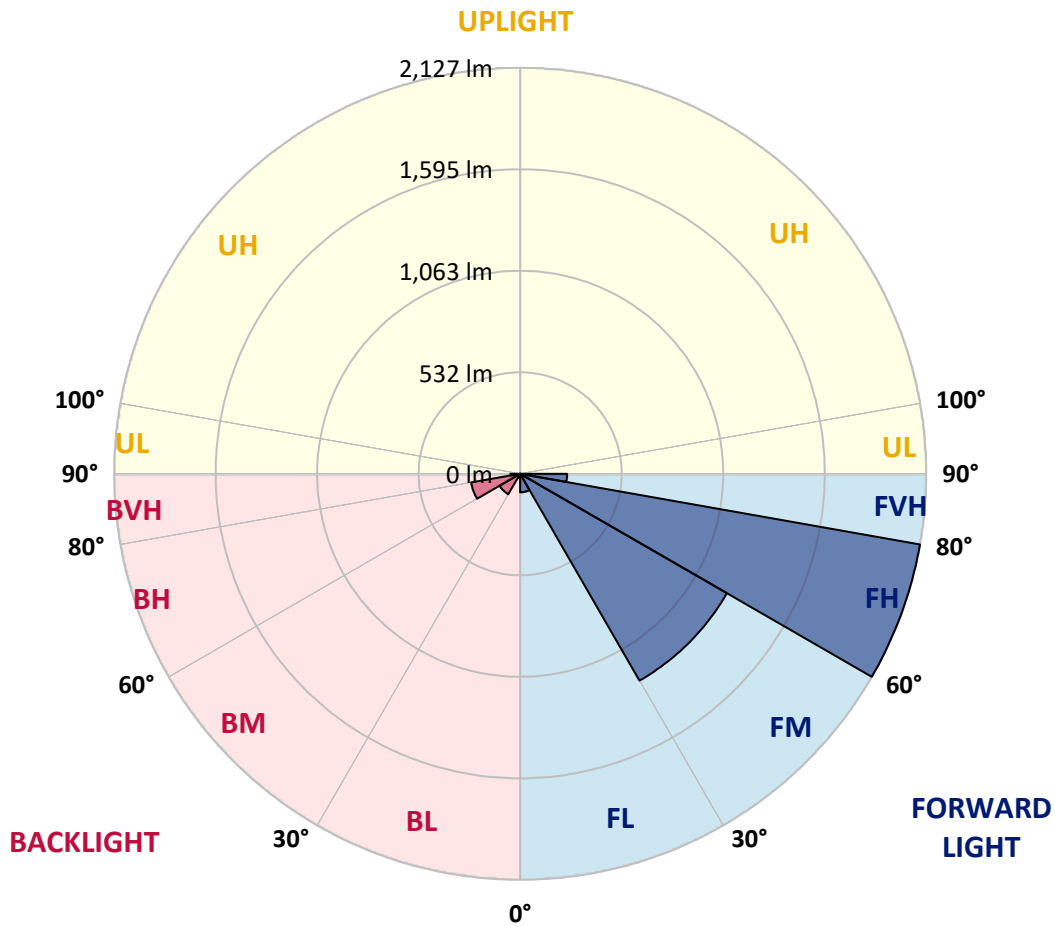
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	97.6	2.3			
FM (30°-60°)	1250.8	29.9			
FH (60°-80°)	2126.9	50.9			G2/5000
FVH (80°-90°)	245.7	5.9			G3/500
BL (0°-30°)	20.4	0.5	B0/110		
BM (30°-60°)	124.0	3.0	B0/220		
BH (60°-80°)	260.8	6.2	B1/500		G1/500
BVH (80°-90°)	50.8	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°	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
2.5°	70.0	68.8	66.6	64.3	63.2	62.1	60.9	59.8	58.7	55.3	53.0
5°	85.8	84.6	82.4	79.0	75.6	73.3	72.2	71.1	68.8	65.5	59.8
7.5°	97.0	97.0	97.0	94.8	91.4	86.9	83.5	81.2	79.0	74.5	68.8
10°	110.6	109.5	109.5	106.1	102.7	99.3	97.0	94.8	92.5	85.8	76.7
12.5°	120.7	119.6	118.5	115.1	114.0	110.6	109.5	104.9	102.7	94.8	83.5
15°	132.0	130.9	128.6	127.5	124.1	121.9	123.0	121.9	119.6	109.5	92.5
17.5°	144.4	143.3	142.2	142.2	142.2	139.9	138.8	136.5	134.3	118.5	98.2
20°	169.3	165.9	162.5	160.2	164.8	165.9	165.9	163.6	163.6	136.5	112.8
22.5°	215.5	212.1	209.9	193.0	199.7	231.3	241.5	230.2	232.5	179.4	124.1
25°	338.5	327.3	321.6	323.9	343.0	378.0	383.7	370.1	376.9	278.7	198.6
27.5°	396.1	398.3	442.4	487.5	493.1	511.2	541.7	513.4	498.8	356.6	248.3
30°	404.0	408.5	489.7	525.9	512.3	503.3	571.0	488.6	463.8	337.4	273.1
32.5°	372.4	392.7	479.6	494.3	462.7	413.0	462.7	393.8	385.9	293.4	259.5
35°	432.2	442.4	481.8	425.4	415.3	476.2	603.7	529.2	511.2	362.2	249.4
37.5°	523.6	520.2	595.8	639.8	624.0	562.0	628.5	572.1	557.5	455.9	356.6
40°	639.8	631.9	723.3	743.6	729.0	725.6	813.6	662.4	634.2	508.9	423.2
42.5°	672.6	674.8	733.5	783.1	771.9	770.7	902.8	747.0	704.2	514.6	464.9
45°	687.2	699.6	812.5	782.0	793.3	773.0	890.3	769.6	733.5	572.1	547.3
47.5°	596.9	603.7	759.4	760.6	617.3	621.8	726.7	641.0	615.0	448.0	471.7
50°	770.7	769.6	826.0	780.9	715.4	828.3	1040.4	1007.7	988.5	672.6	523.6
52.5°	1114.9	1102.5	1188.3	1259.3	1245.8	1506.5	1822.4	1808.9	1740.1	1319.2	827.2
55°	1467.0	1461.3	1556.1	1806.6	1927.4	2172.3	2479.2	2393.4	2367.5	1943.2	1300.0
57.5°	1757.0	1758.1	1788.6	2004.1	2250.1	2724.1	3255.6	3356.0	3303.0	2508.5	1579.8
60°	2069.6	2044.7	1940.9	2094.4	2554.8	3105.5	3934.9	4211.4	4160.6	3086.3	1749.1
62.5°	2091.0	2066.2	1889.0	2044.7	2396.8	2903.5	3648.3	3872.8	3931.5	3243.2	1799.9
65°	1996.2	1965.8	1746.8	1863.1	2006.4	2313.3	3226.2	3137.1	3221.7	3194.6	1798.7
67.5°	1891.3	1866.5	1661.1	1758.1	1868.7	2074.1	3036.7	2814.4	2901.2	3005.1	1883.4
70°	1785.2	1750.2	1584.3	1689.3	1825.8	1964.6	2796.3	2587.5	2565.0	2545.8	1798.7
72.5°	1767.2	1740.1	1564.0	1637.4	1792.0	1894.7	2756.8	2596.6	2574.0	2455.5	1645.3
75°	1629.5	1627.2	1458.0	1526.8	1713.0	1777.3	2647.3	2524.3	2476.9	2324.6	1447.8
77.5°	1315.8	1298.8	1175.8	1248.1	1416.2	1505.4	2278.3	2198.2	2171.1	2029.0	1197.3
80°	884.7	870.0	817.0	858.7	1015.6	1093.5	1709.6	1702.8	1682.5	1588.9	884.7
82.5°	503.3	528.1	478.5	497.6	551.8	647.7	1063.0	1016.7	1002.1	935.5	502.2
85°	283.2	277.6	258.4	256.2	299.0	294.5	459.3	393.8	409.6	354.3	239.2
87.5°	204.2	208.8	188.5	188.5	208.8	206.5	288.9	272.0	269.7	252.8	171.5
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°	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
2.5°	51.9	50.8	47.4	44.0	38.4	32.7	29.3	31.6	32.7	33.9	33.9
5°	56.4	54.2	47.4	40.6	33.9	28.2	23.7	21.4	21.4	22.6	22.6
7.5°	66.6	63.2	54.2	46.3	37.2	31.6	26.0	22.6	20.3	20.3	20.3
10°	72.2	68.8	58.7	49.7	40.6	33.9	28.2	23.7	21.4	20.3	20.3
12.5°	77.9	73.3	63.2	53.0	42.9	35.0	29.3	24.8	23.7	23.7	23.7
15°	84.6	77.9	65.5	54.2	44.0	36.1	29.3	26.0	24.8	24.8	24.8
17.5°	91.4	84.6	70.0	55.3	45.1	36.1	30.5	26.0	24.8	26.0	26.0
20°	102.7	90.3	70.0	56.4	45.1	36.1	30.5	26.0	26.0	26.0	26.0
22.5°	108.3	98.2	74.5	57.6	46.3	37.2	30.5	26.0	26.0	26.0	26.0
25°	167.0	124.1	77.9	59.8	47.4	38.4	30.5	27.1	26.0	27.1	27.1
27.5°	209.9	174.9	89.1	63.2	48.5	39.5	31.6	27.1	27.1	28.2	28.2
30°	233.6	199.7	97.0	68.8	51.9	40.6	32.7	28.2	28.2	28.2	28.2
32.5°	222.3	180.6	98.2	75.6	57.6	42.9	33.9	29.3	29.3	29.3	29.3
35°	193.0	149.0	95.9	76.7	60.9	47.4	36.1	30.5	30.5	29.3	29.3
37.5°	269.7	187.3	99.3	76.7	63.2	50.8	39.5	32.7	31.6	30.5	30.5
40°	319.4	208.8	109.5	82.4	63.2	51.9	41.8	36.1	33.9	32.7	31.6
42.5°	354.3	229.1	117.4	90.3	70.0	54.2	42.9	39.5	36.1	33.9	33.9
45°	405.1	242.6	127.5	99.3	76.7	59.8	46.3	40.6	39.5	37.2	36.1
47.5°	370.1	247.1	137.7	109.5	84.6	65.5	50.8	44.0	42.9	40.6	39.5
50°	380.3	240.4	141.1	116.2	92.5	70.0	55.3	48.5	46.3	44.0	44.0
52.5°	519.1	318.2	154.6	119.6	95.9	76.7	59.8	53.0	50.8	48.5	48.5
55°	847.5	487.5	190.7	132.0	99.3	79.0	64.3	58.7	55.3	53.0	51.9
57.5°	1107.0	688.4	241.5	161.4	118.5	83.5	66.6	64.3	62.1	57.6	56.4
60°	1342.9	872.3	284.4	194.1	149.0	108.3	76.7	71.1	70.0	63.2	60.9
62.5°	1534.7	1024.6	319.4	212.1	170.4	139.9	104.9	88.0	79.0	71.1	68.8
65°	1604.7	1075.4	332.9	215.5	176.0	155.7	132.0	119.6	93.7	81.2	79.0
67.5°	1631.7	1064.1	339.7	208.8	171.5	155.7	138.8	139.9	114.0	90.3	86.9
70°	1578.7	1020.1	336.3	202.0	164.8	151.2	135.4	130.9	118.5	97.0	92.5
72.5°	1459.1	979.5	335.1	200.9	162.5	145.6	125.3	111.7	101.6	95.9	93.7
75°	1339.5	952.4	330.6	199.7	159.1	137.7	114.0	97.0	83.5	84.6	86.9
77.5°	1137.5	840.7	305.8	185.1	143.3	119.6	98.2	85.8	75.6	74.5	74.5
80°	859.9	624.0	250.5	154.6	117.4	97.0	81.2	76.7	71.1	68.8	67.7
82.5°	476.2	328.4	161.4	115.1	92.5	75.6	68.8	68.8	65.5	62.1	62.1
85°	217.8	183.9	119.6	95.9	79.0	65.5	59.8	59.8	56.4	53.0	51.9
87.5°	169.3	145.6	101.6	89.1	76.7	64.3	57.6	57.6	54.2	51.9	51.9
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)