

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: P588583

Luminaire Tested: **ARC-CA6-110-750-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588583
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-CA6-110-750-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: 4841 lumens
Efficiency: N/A
Efficacy: 85.7 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

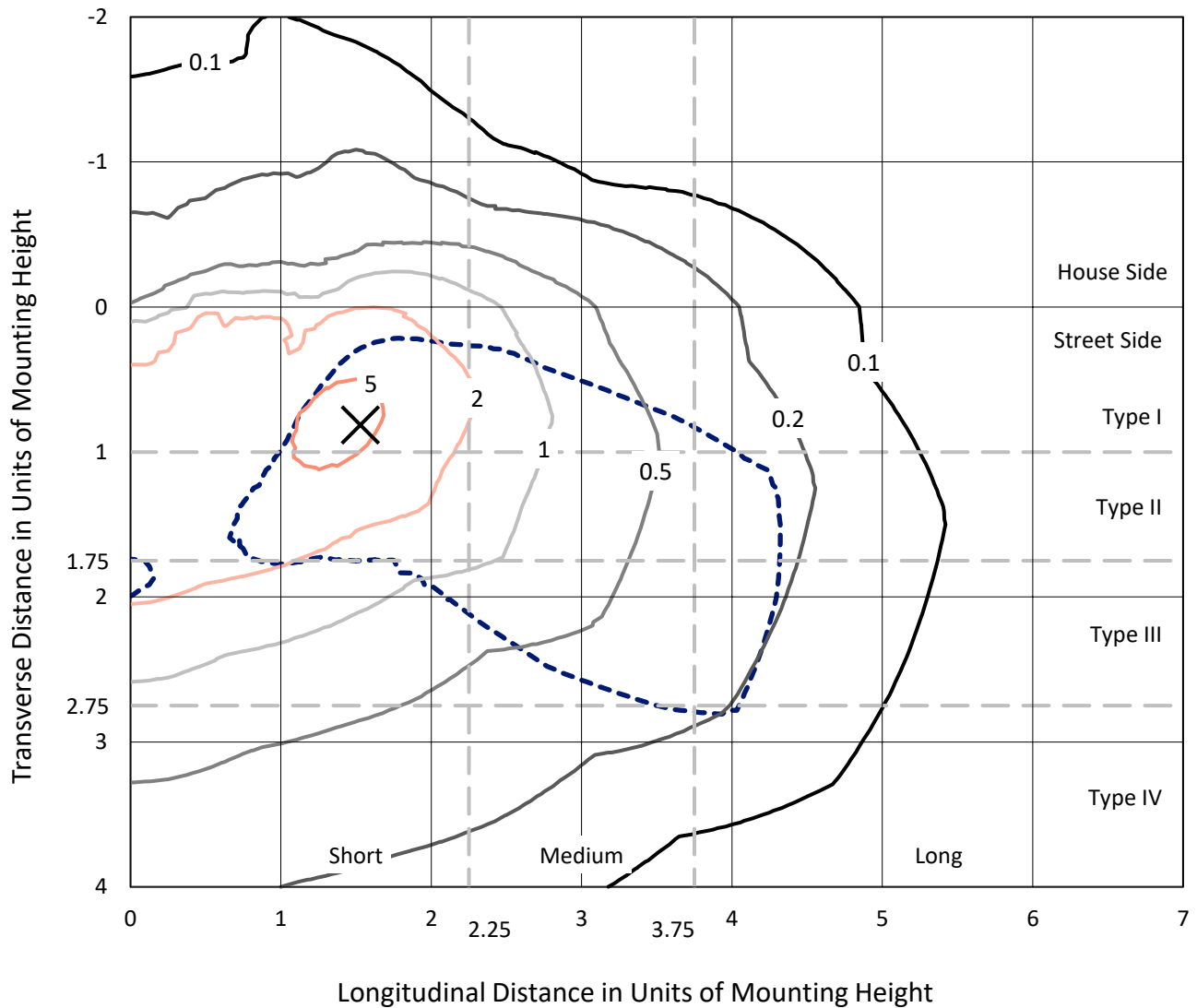
Input Watts (W): 56.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

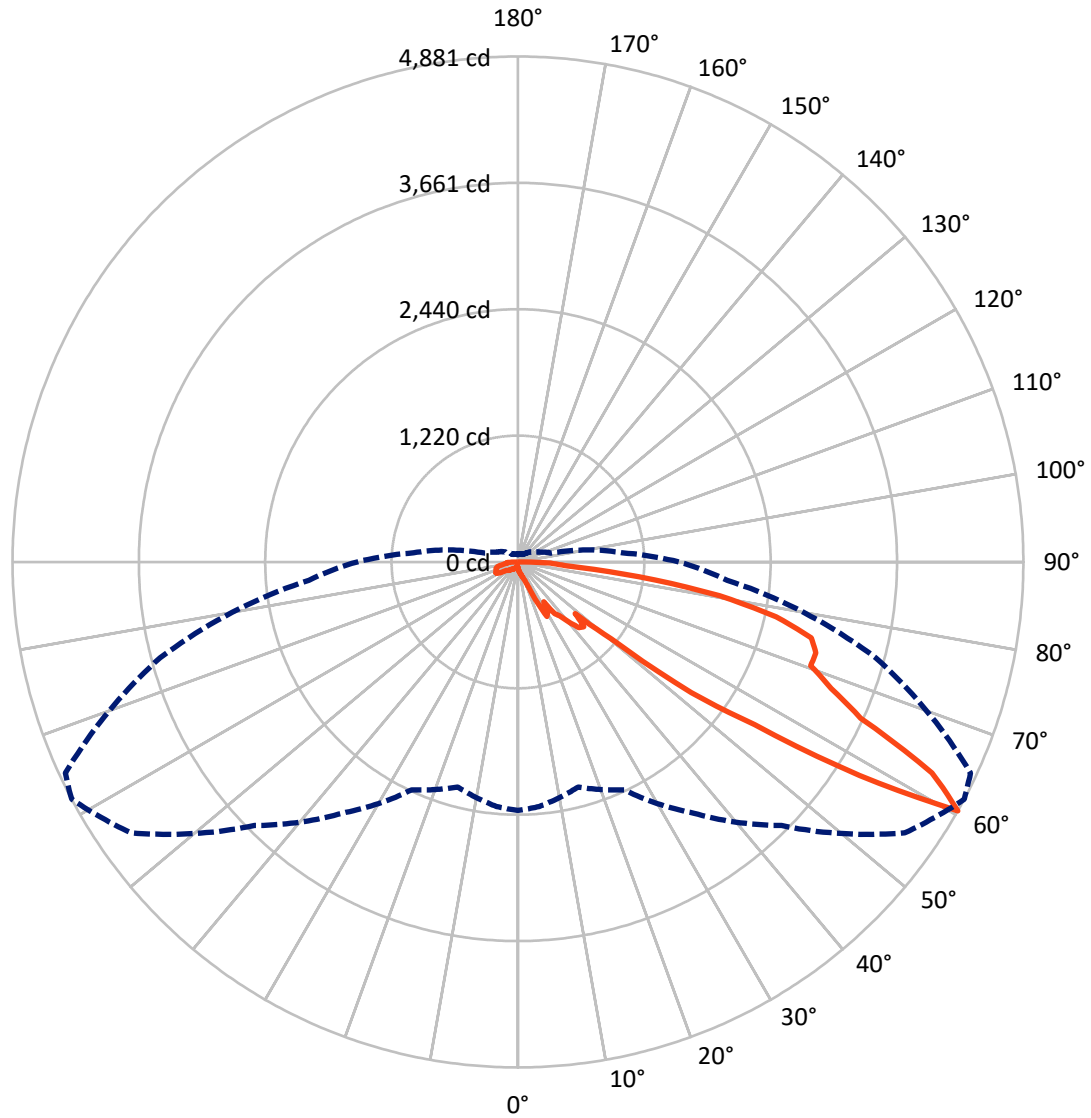
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 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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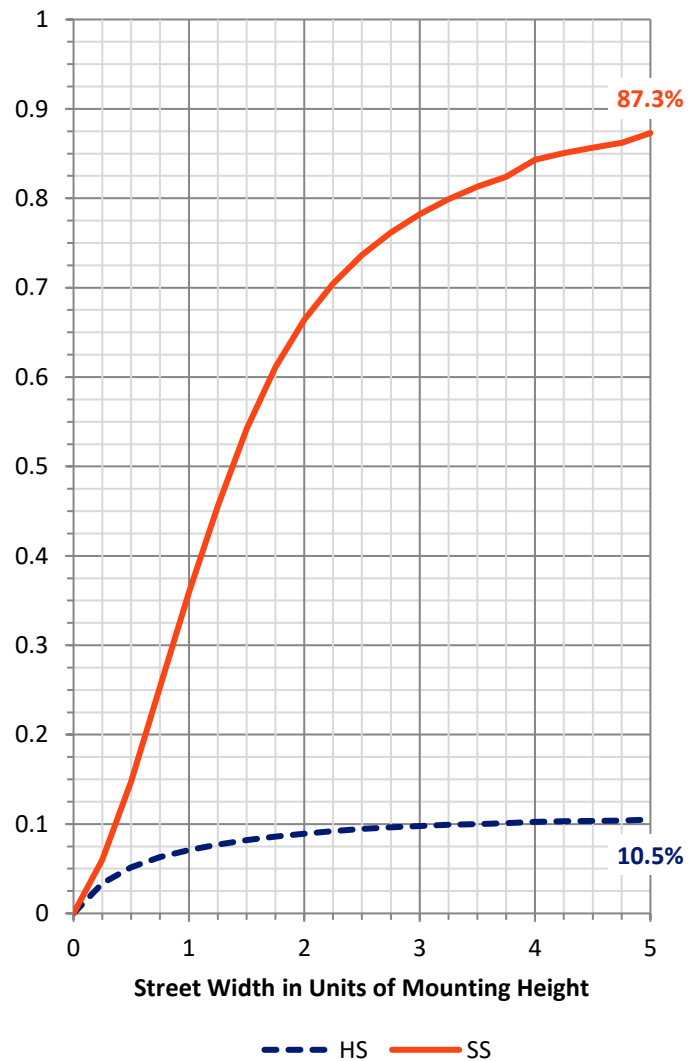
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	528.4	0.0	528.4
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	4312.5	0.0	4312.5
	% Fixture	89.1	0.0	89.1
Total	Lumens	4841.0	0.0	4841.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	0.1
10°-20°	27.5	0.6
20°-30°	102.7	2.1
30°-40°	202.9	4.2
40°-50°	351.0	7.3
50°-60°	1039.4	21.5
60°-70°	1535.6	31.7
70°-80°	1231.7	25.4
80°-90°	343.7	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°	4841.0	100.0
0°-180°	4841.0	100.0

Coefficient of Utilization



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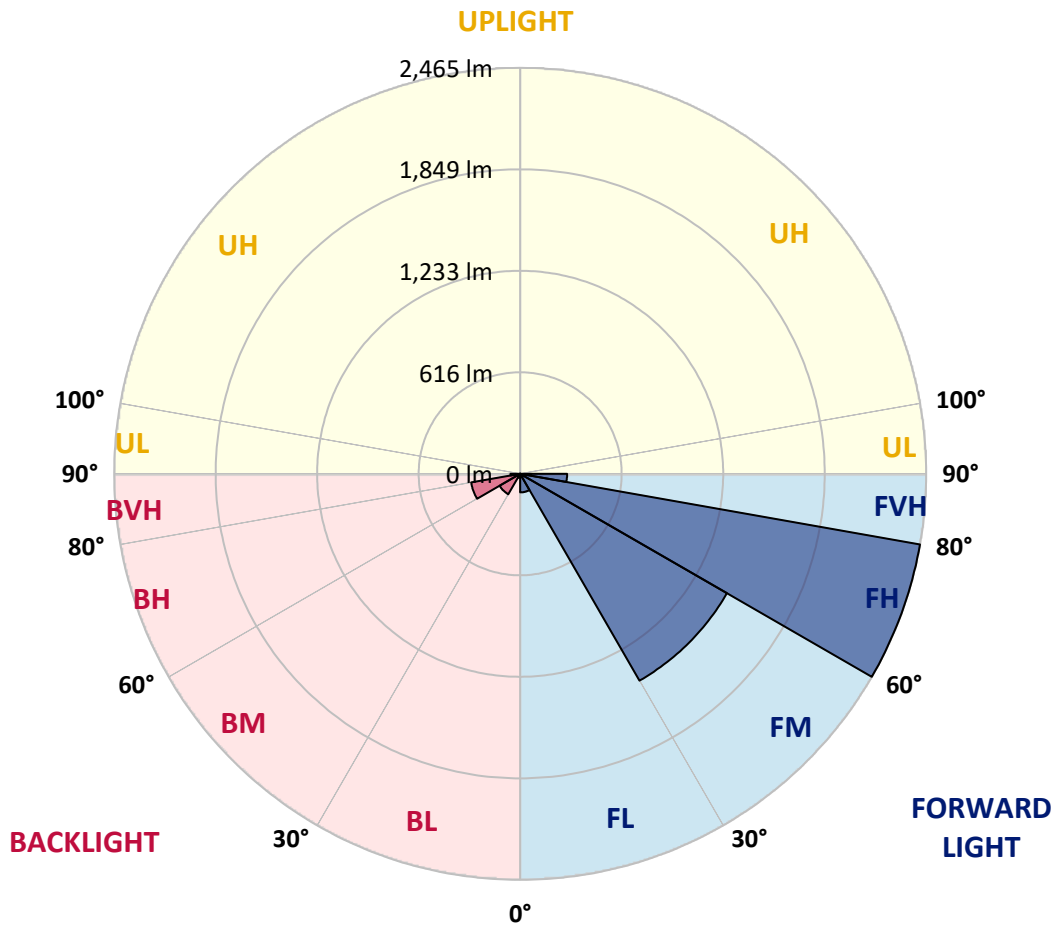
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	113.1	2.3			
FM (30°-60°)	1449.7	29.9			
FH (60°-80°)	2465.0	50.9			G2/5000
FVH (80°-90°)	284.8	5.9			G3/500
BL (0°-30°)	23.6	0.5	B0/110		
BM (30°-60°)	143.7	3.0	B0/220		
BH (60°-80°)	302.3	6.2	B1/500		G1/500
BVH (80°-90°)	58.9	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°	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
2.5°	81.1	79.8	77.2	74.5	73.2	71.9	70.6	69.3	68.0	64.1	61.5
5°	99.4	98.1	95.5	91.5	87.6	85.0	83.7	82.4	79.8	75.9	69.3
7.5°	112.5	112.5	112.5	109.9	105.9	100.7	96.8	94.2	91.5	86.3	79.8
10°	128.2	126.9	126.9	122.9	119.0	115.1	112.5	109.9	107.2	99.4	88.9
12.5°	139.9	138.6	137.3	133.4	132.1	128.2	126.9	121.6	119.0	109.9	96.8
15°	153.0	151.7	149.1	147.8	143.9	141.2	142.6	141.2	138.6	126.9	107.2
17.5°	167.4	166.1	164.8	164.8	164.8	162.2	160.9	158.2	155.6	137.3	113.8
20°	196.2	192.3	188.3	185.7	190.9	192.3	192.3	189.6	189.6	158.2	130.8
22.5°	249.8	245.9	243.3	223.6	231.5	268.1	279.9	266.8	269.4	207.9	143.9
25°	392.3	379.3	372.7	375.3	397.6	438.1	444.7	429.0	436.8	323.0	230.2
27.5°	459.0	461.7	512.7	565.0	571.5	592.4	627.8	595.1	578.1	413.3	287.7
30°	468.2	473.4	567.6	609.5	593.8	583.3	661.8	566.3	537.5	391.0	316.5
32.5°	431.6	455.1	555.8	572.8	536.2	478.7	536.2	456.4	447.3	340.0	300.8
35°	500.9	512.7	558.4	493.1	481.3	551.9	699.7	613.4	592.4	419.8	289.0
37.5°	606.8	602.9	690.5	741.5	723.2	651.3	728.5	663.1	646.1	528.4	413.3
40°	741.5	732.4	838.3	861.9	844.9	840.9	942.9	767.7	735.0	589.8	490.4
42.5°	779.5	782.1	850.1	907.6	894.6	893.2	1046.3	865.8	816.1	596.4	538.8
45°	796.5	810.9	941.6	906.3	919.4	895.9	1031.9	891.9	850.1	663.1	634.3
47.5°	691.8	699.7	880.2	881.5	715.4	720.6	842.2	742.8	712.8	519.2	546.7
50°	893.2	891.9	957.3	905.0	829.2	959.9	1205.8	1167.9	1145.7	779.5	606.8
52.5°	1292.1	1277.8	1377.1	1459.5	1443.8	1746.0	2112.2	2096.5	2016.7	1528.9	958.6
55°	1700.2	1693.6	1803.5	2093.8	2233.8	2517.6	2873.3	2773.9	2743.8	2252.1	1506.6
57.5°	2036.3	2037.6	2072.9	2322.7	2607.8	3157.1	3773.1	3889.5	3828.0	2907.3	1831.0
60°	2398.6	2369.8	2249.5	2427.3	2960.9	3599.2	4560.4	4880.8	4822.0	3576.9	2027.1
62.5°	2423.4	2394.6	2189.3	2369.8	2777.8	3365.1	4228.2	4488.5	4556.5	3758.7	2086.0
65°	2313.6	2278.2	2024.5	2159.2	2325.3	2681.1	3739.1	3635.8	3733.9	3702.5	2084.7
67.5°	2191.9	2163.2	1925.1	2037.6	2165.8	2403.8	3519.4	3261.7	3362.4	3482.8	2182.8
70°	2069.0	2028.4	1836.2	1957.8	2116.1	2276.9	3240.8	2998.9	2972.7	2950.5	2084.7
72.5°	2048.1	2016.7	1812.7	1897.7	2076.8	2195.9	3195.0	3009.3	2983.2	2845.8	1906.8
75°	1888.5	1885.9	1689.7	1769.5	1985.3	2059.8	3068.2	2925.6	2870.7	2694.1	1677.9
77.5°	1524.9	1505.3	1362.8	1446.5	1641.3	1744.6	2640.5	2547.7	2516.3	2351.5	1387.6
80°	1025.3	1008.3	946.9	995.3	1177.0	1267.3	1981.4	1973.5	1950.0	1841.4	1025.3
82.5°	583.3	612.1	554.5	576.8	639.5	750.7	1232.0	1178.4	1161.4	1084.2	582.0
85°	328.3	321.7	299.5	296.9	346.6	341.3	532.3	456.4	474.7	410.7	277.3
87.5°	236.7	241.9	218.4	218.4	241.9	239.3	334.8	315.2	312.6	293.0	198.8
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°	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
2.5°	60.2	58.9	54.9	51.0	44.5	37.9	34.0	36.6	37.9	39.2	39.2
5°	65.4	62.8	54.9	47.1	39.2	32.7	27.5	24.8	24.8	26.2	26.2
7.5°	77.2	73.2	62.8	53.6	43.2	36.6	30.1	26.2	23.5	23.5	23.5
10°	83.7	79.8	68.0	57.5	47.1	39.2	32.7	27.5	24.8	23.5	23.5
12.5°	90.2	85.0	73.2	61.5	49.7	40.5	34.0	28.8	27.5	27.5	27.5
15°	98.1	90.2	75.9	62.8	51.0	41.9	34.0	30.1	28.8	28.8	28.8
17.5°	105.9	98.1	81.1	64.1	52.3	41.9	35.3	30.1	28.8	30.1	30.1
20°	119.0	104.6	81.1	65.4	52.3	41.9	35.3	30.1	30.1	30.1	30.1
22.5°	125.6	113.8	86.3	66.7	53.6	43.2	35.3	30.1	30.1	30.1	30.1
25°	193.6	143.9	90.2	69.3	54.9	44.5	35.3	31.4	30.1	31.4	31.4
27.5°	243.3	202.7	103.3	73.2	56.2	45.8	36.6	31.4	31.4	32.7	32.7
30°	270.7	231.5	112.5	79.8	60.2	47.1	37.9	32.7	32.7	32.7	32.7
32.5°	257.6	209.3	113.8	87.6	66.7	49.7	39.2	34.0	34.0	34.0	34.0
35°	223.6	172.6	111.2	88.9	70.6	54.9	41.9	35.3	35.3	34.0	34.0
37.5°	312.6	217.1	115.1	88.9	73.2	58.9	45.8	37.9	36.6	35.3	35.3
40°	370.1	241.9	126.9	95.5	73.2	60.2	48.4	41.9	39.2	37.9	36.6
42.5°	410.7	265.5	136.0	104.6	81.1	62.8	49.7	45.8	41.9	39.2	39.2
45°	469.5	281.2	147.8	115.1	88.9	69.3	53.6	47.1	45.8	43.2	41.9
47.5°	429.0	286.4	159.6	126.9	98.1	75.9	58.9	51.0	49.7	47.1	45.8
50°	440.7	278.6	163.5	134.7	107.2	81.1	64.1	56.2	53.6	51.0	51.0
52.5°	601.6	368.8	179.2	138.6	111.2	88.9	69.3	61.5	58.9	56.2	56.2
55°	982.2	565.0	221.0	153.0	115.1	91.5	74.5	68.0	64.1	61.5	60.2
57.5°	1283.0	797.8	279.9	187.0	137.3	96.8	77.2	74.5	71.9	66.7	65.4
60°	1556.3	1011.0	329.6	224.9	172.6	125.6	88.9	82.4	81.1	73.2	70.6
62.5°	1778.7	1187.5	370.1	245.9	197.5	162.2	121.6	102.0	91.5	82.4	79.8
65°	1859.7	1246.4	385.8	249.8	204.0	180.5	153.0	138.6	108.6	94.2	91.5
67.5°	1891.1	1233.3	393.7	241.9	198.8	180.5	160.9	162.2	132.1	104.6	100.7
70°	1829.7	1182.3	389.7	234.1	190.9	175.2	156.9	151.7	137.3	112.5	107.2
72.5°	1691.0	1135.2	388.4	232.8	188.3	168.7	145.2	129.5	117.7	111.2	108.6
75°	1552.4	1103.8	383.2	231.5	184.4	159.6	132.1	112.5	96.8	98.1	100.7
77.5°	1318.3	974.3	354.4	214.5	166.1	138.6	113.8	99.4	87.6	86.3	86.3
80°	996.6	723.2	290.3	179.2	136.0	112.5	94.2	88.9	82.4	79.8	78.5
82.5°	551.9	380.6	187.0	133.4	107.2	87.6	79.8	79.8	75.9	71.9	71.9
85°	252.4	213.2	138.6	111.2	91.5	75.9	69.3	69.3	65.4	61.5	60.2
87.5°	196.2	168.7	117.7	103.3	88.9	74.5	66.7	66.7	62.8	60.2	60.2
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)