

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: P588601

Luminaire Tested: **ARC-CA6-130-727-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588601
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-CA6-130-727-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: 5008 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

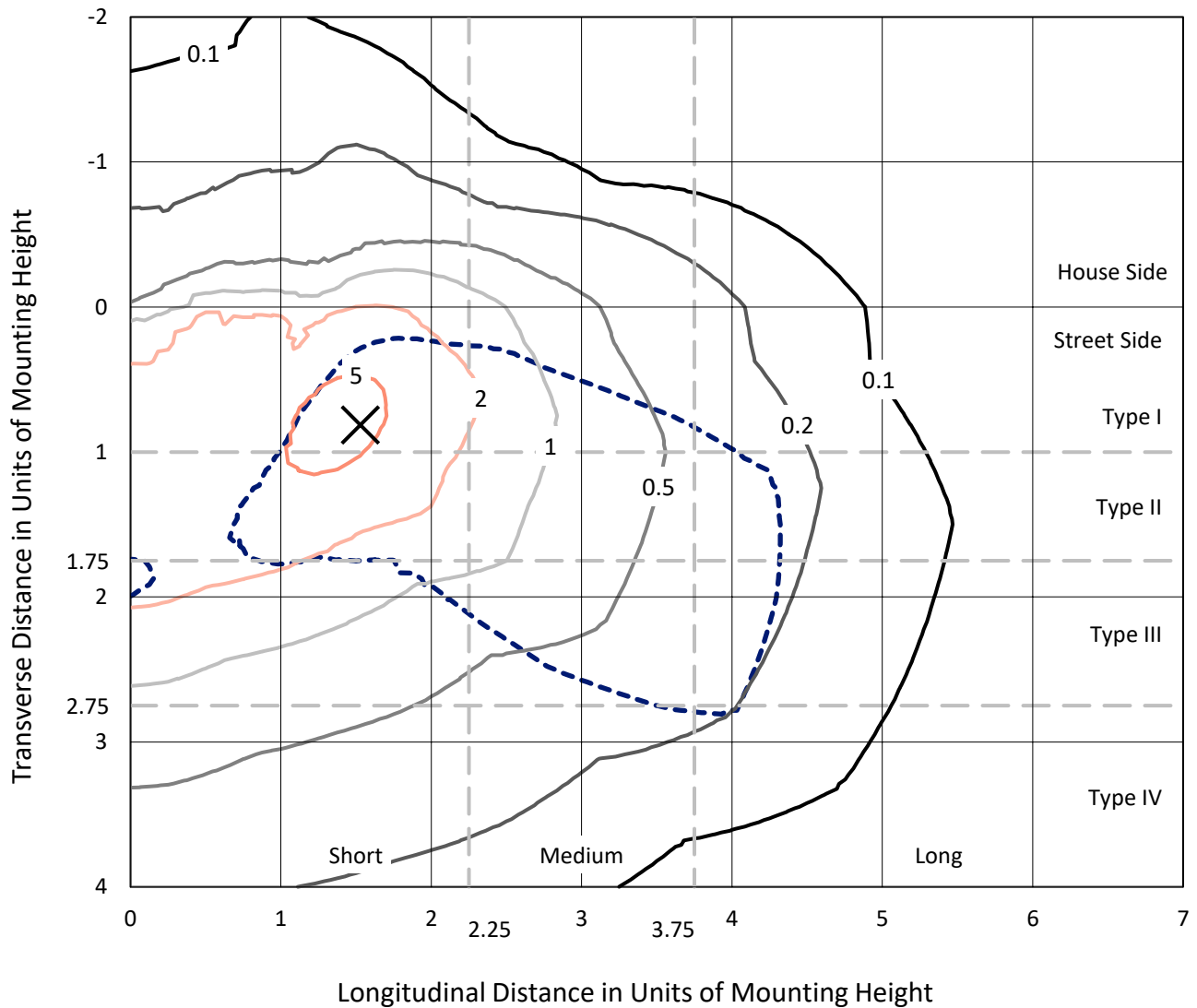
Input Watts (W): 62.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

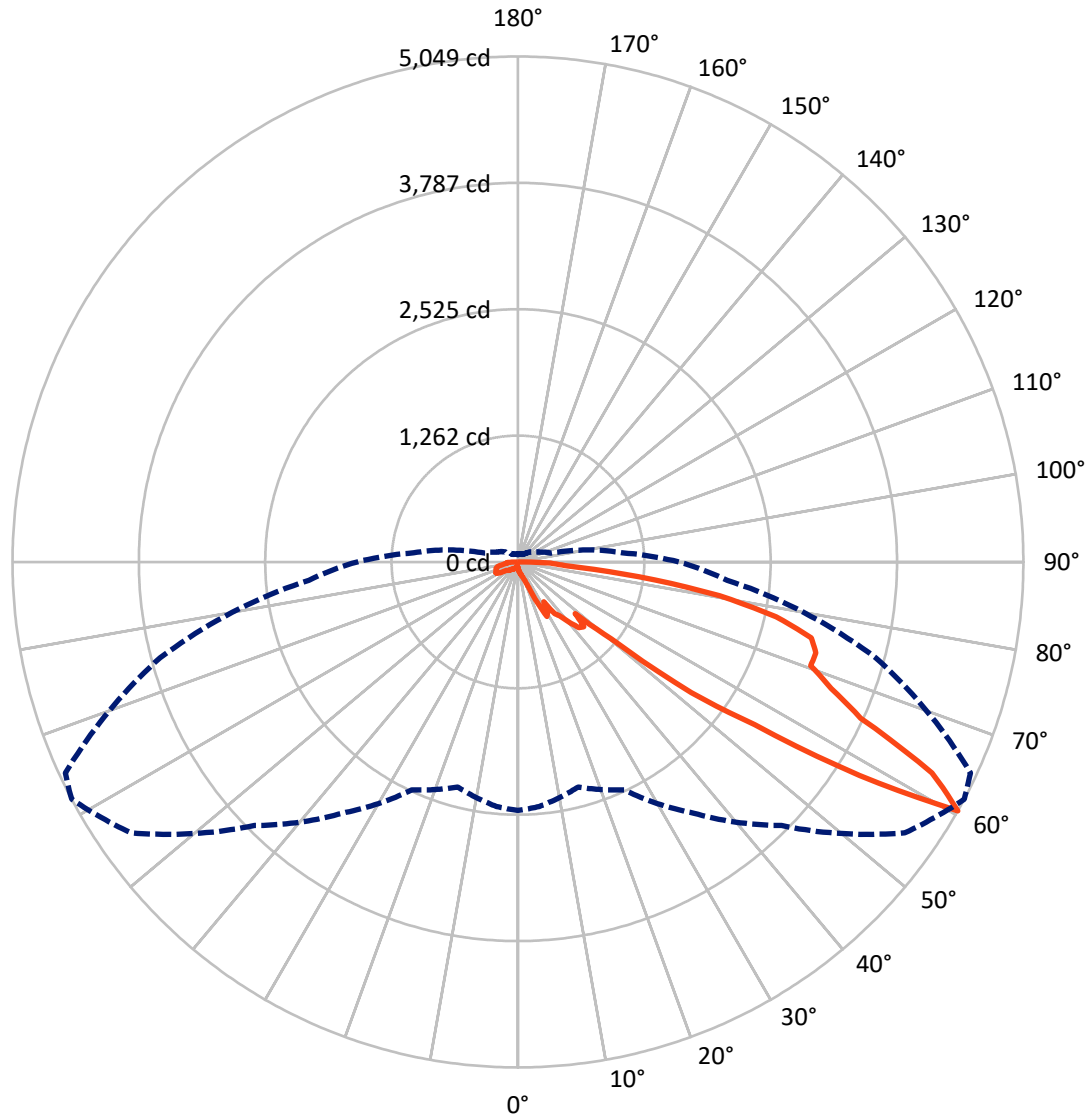
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 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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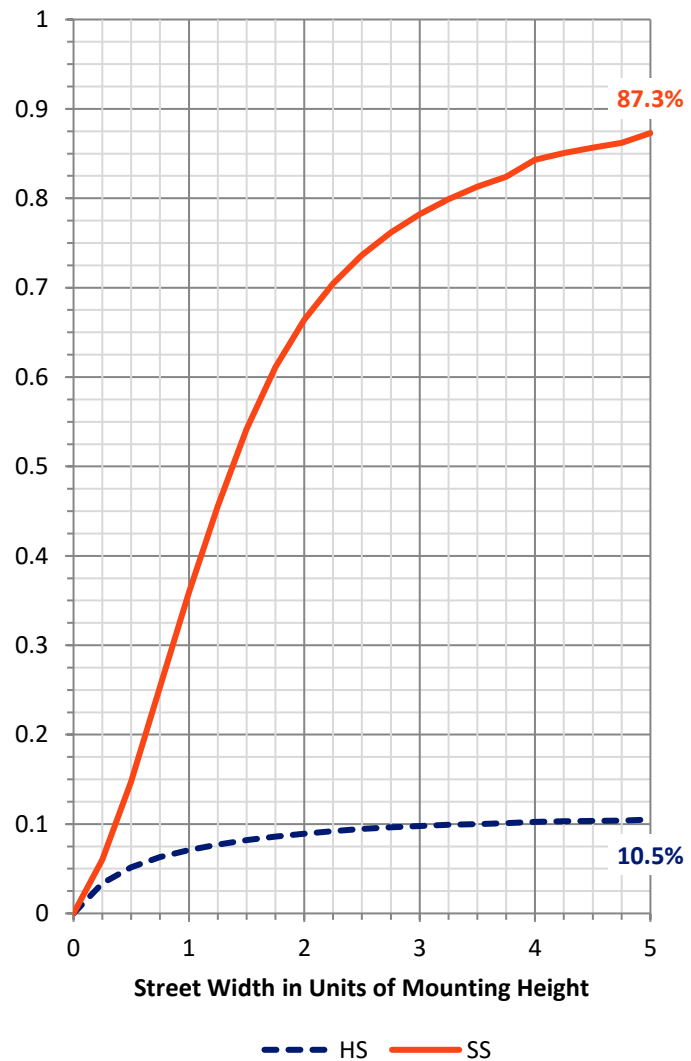
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	546.7	0.0	546.7
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	4461.3	0.0	4461.3
	% Fixture	89.1	0.0	89.1
Total	Lumens	5008.0	0.0	5008.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.7	0.1
10°-20°	28.4	0.6
20°-30°	106.2	2.1
30°-40°	209.9	4.2
40°-50°	363.1	7.3
50°-60°	1075.3	21.5
60°-70°	1588.6	31.7
70°-80°	1274.2	25.4
80°-90°	355.5	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°	5008.0	100.0
0°-180°	5008.0	100.0

Coefficient of Utilization



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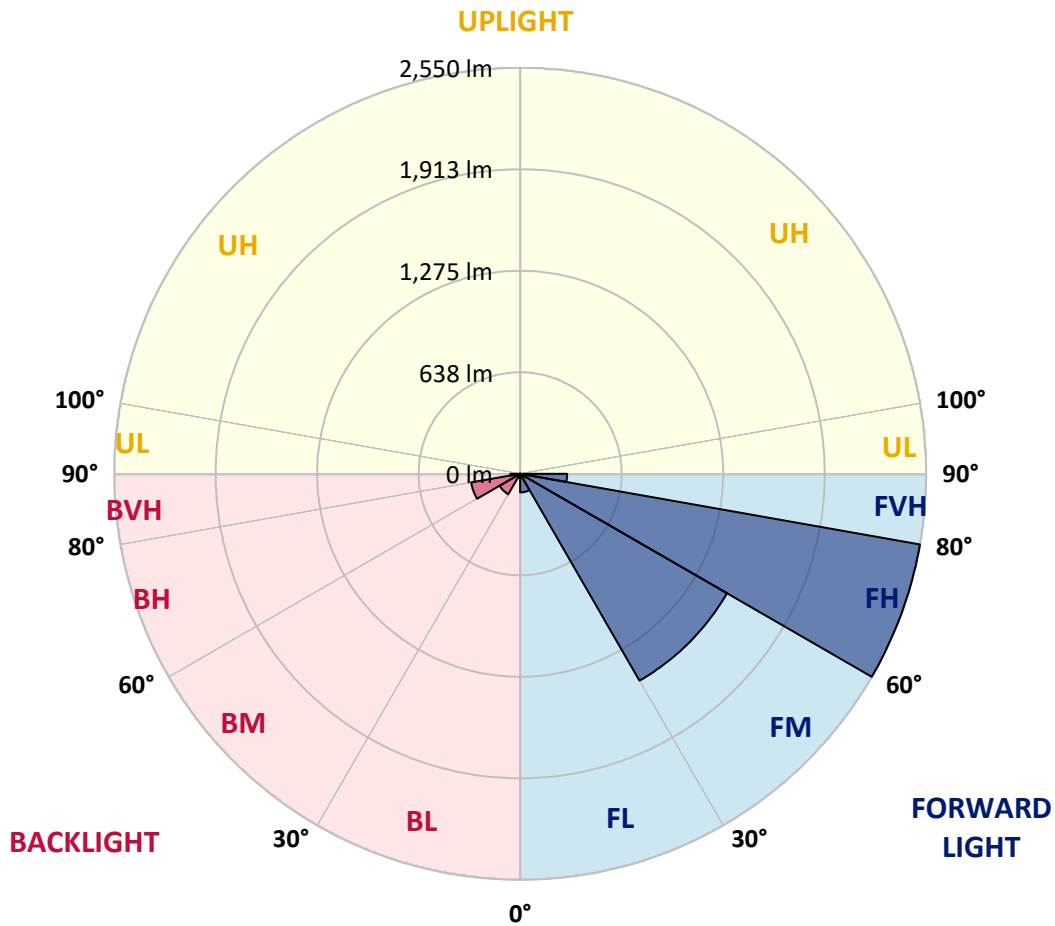
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	117.0	2.3			
FM (30°-60°)	1499.7	29.9			
FH (60°-80°)	2550.1	50.9			G2/5000
FVH (80°-90°)	294.6	5.9			G3/500
BL (0°-30°)	24.4	0.5	B0/110		
BM (30°-60°)	148.6	3.0	B0/220		
BH (60°-80°)	312.7	6.2	B1/500		G1/500
BVH (80°-90°)	60.9	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°	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
2.5°	83.9	82.5	79.8	77.1	75.8	74.4	73.1	71.7	70.4	66.3	63.6
5°	102.8	101.5	98.8	94.7	90.6	87.9	86.6	85.2	82.5	78.5	71.7
7.5°	116.4	116.4	116.4	113.6	109.6	104.2	100.1	97.4	94.7	89.3	82.5
10°	132.6	131.2	131.2	127.2	123.1	119.1	116.4	113.6	110.9	102.8	92.0
12.5°	144.8	143.4	142.1	138.0	136.6	132.6	131.2	125.8	123.1	113.6	100.1
15°	158.3	156.9	154.2	152.9	148.8	146.1	147.5	146.1	143.4	131.2	110.9
17.5°	173.2	171.8	170.5	170.5	170.5	167.8	166.4	163.7	161.0	142.1	117.7
20°	202.9	198.9	194.8	192.1	197.5	198.9	198.9	196.2	196.2	163.7	135.3
22.5°	258.4	254.4	251.6	231.4	239.5	277.4	289.5	276.0	278.7	215.1	148.8
25°	405.9	392.4	385.6	388.3	411.3	453.2	460.0	443.8	451.9	334.2	238.1
27.5°	474.9	477.6	530.4	584.5	591.2	612.9	649.4	615.6	598.0	427.5	297.6
30°	484.4	489.8	587.2	630.5	614.2	603.4	684.6	585.8	556.1	404.5	327.4
32.5°	446.5	470.8	575.0	592.6	554.7	495.2	554.7	472.2	462.7	351.8	311.2
35°	518.2	530.4	577.7	510.1	497.9	570.9	723.8	634.5	612.9	434.3	299.0
37.5°	627.8	623.7	714.4	767.1	748.2	673.8	753.6	685.9	668.4	546.6	427.5
40°	767.1	757.7	867.2	891.6	874.0	869.9	975.5	794.2	760.4	610.2	507.4
42.5°	806.4	809.1	879.4	938.9	925.4	924.1	1082.4	895.7	844.2	616.9	557.4
45°	823.9	838.8	974.1	937.6	951.1	926.8	1067.5	922.7	879.4	685.9	656.2
47.5°	715.7	723.8	910.5	911.9	740.1	745.5	871.3	768.5	737.4	537.1	565.5
50°	924.1	922.7	990.4	936.2	857.8	993.1	1247.4	1208.2	1185.2	806.4	627.8
52.5°	1336.7	1321.8	1424.7	1509.9	1493.7	1806.2	2185.0	2168.8	2086.2	1581.6	991.7
55°	1758.8	1752.1	1865.7	2166.1	2310.8	2604.4	2972.4	2869.6	2838.5	2329.8	1558.6
57.5°	2106.5	2107.9	2144.4	2402.8	2697.8	3266.0	3903.3	4023.7	3960.1	3007.6	1894.1
60°	2481.3	2451.5	2327.1	2511.1	3063.1	3723.3	4717.7	5049.2	4988.3	3700.3	2097.1
62.5°	2507.0	2477.3	2264.8	2451.5	2873.7	3481.1	4374.1	4643.3	4713.7	3888.4	2158.0
65°	2393.4	2356.8	2094.4	2233.7	2405.5	2773.5	3868.1	3761.2	3862.7	3830.2	2156.6
67.5°	2267.5	2237.8	1991.5	2107.9	2240.5	2486.7	3640.8	3374.3	3478.4	3602.9	2258.1
70°	2140.4	2098.4	1899.5	2025.4	2189.1	2355.5	3352.6	3102.3	3075.3	3052.3	2156.6
72.5°	2118.7	2086.2	1875.2	1963.1	2148.5	2271.6	3305.3	3113.1	3086.1	2944.0	1972.6
75°	1953.7	1951.0	1748.0	1830.5	2053.8	2130.9	3174.0	3026.5	2969.7	2787.1	1735.8
77.5°	1577.5	1557.2	1409.8	1496.4	1698.0	1804.8	2731.6	2635.5	2603.1	2432.6	1435.5
80°	1060.7	1043.1	979.5	1029.6	1217.7	1311.0	2049.7	2041.6	2017.2	1905.0	1060.7
82.5°	603.4	633.2	573.7	596.7	661.6	776.6	1274.5	1219.0	1201.4	1121.6	602.1
85°	339.6	332.8	309.8	307.1	358.5	353.1	550.7	472.2	491.1	424.8	286.8
87.5°	244.9	250.3	225.9	225.9	250.3	247.6	346.4	326.1	323.4	303.1	205.6
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°	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
2.5°	62.2	60.9	56.8	52.8	46.0	39.2	35.2	37.9	39.2	40.6	40.6
5°	67.6	64.9	56.8	48.7	40.6	33.8	28.4	25.7	25.7	27.1	27.1
7.5°	79.8	75.8	64.9	55.5	44.6	37.9	31.1	27.1	24.4	24.4	24.4
10°	86.6	82.5	70.4	59.5	48.7	40.6	33.8	28.4	25.7	24.4	24.4
12.5°	93.4	87.9	75.8	63.6	51.4	41.9	35.2	29.8	28.4	28.4	28.4
15°	101.5	93.4	78.5	64.9	52.8	43.3	35.2	31.1	29.8	29.8	29.8
17.5°	109.6	101.5	83.9	66.3	54.1	43.3	36.5	31.1	29.8	31.1	31.1
20°	123.1	108.2	83.9	67.6	54.1	43.3	36.5	31.1	31.1	31.1	31.1
22.5°	129.9	117.7	89.3	69.0	55.5	44.6	36.5	31.1	31.1	31.1	31.1
25°	200.2	148.8	93.4	71.7	56.8	46.0	36.5	32.5	31.1	32.5	32.5
27.5°	251.6	209.7	106.9	75.8	58.2	47.4	37.9	32.5	32.5	33.8	33.8
30°	280.1	239.5	116.4	82.5	62.2	48.7	39.2	33.8	33.8	33.8	33.8
32.5°	266.5	216.5	117.7	90.6	69.0	51.4	40.6	35.2	35.2	35.2	35.2
35°	231.4	178.6	115.0	92.0	73.1	56.8	43.3	36.5	36.5	35.2	35.2
37.5°	323.4	224.6	119.1	92.0	75.8	60.9	47.4	39.2	37.9	36.5	36.5
40°	382.9	250.3	131.2	98.8	75.8	62.2	50.1	43.3	40.6	39.2	37.9
42.5°	424.8	274.6	140.7	108.2	83.9	64.9	51.4	47.4	43.3	40.6	40.6
45°	485.7	290.9	152.9	119.1	92.0	71.7	55.5	48.7	47.4	44.6	43.3
47.5°	443.8	296.3	165.1	131.2	101.5	78.5	60.9	52.8	51.4	48.7	47.4
50°	455.9	288.2	169.1	139.4	110.9	83.9	66.3	58.2	55.5	52.8	52.8
52.5°	622.4	381.5	185.4	143.4	115.0	92.0	71.7	63.6	60.9	58.2	58.2
55°	1016.1	584.5	228.6	158.3	119.1	94.7	77.1	70.4	66.3	63.6	62.2
57.5°	1327.2	825.3	289.5	193.5	142.1	100.1	79.8	77.1	74.4	69.0	67.6
60°	1610.0	1045.8	340.9	232.7	178.6	129.9	92.0	85.2	83.9	75.8	73.1
62.5°	1840.0	1228.5	382.9	254.4	204.3	167.8	125.8	105.5	94.7	85.2	82.5
65°	1923.9	1289.4	399.1	258.4	211.1	186.7	158.3	143.4	112.3	97.4	94.7
67.5°	1956.4	1275.8	407.2	250.3	205.6	186.7	166.4	167.8	136.6	108.2	104.2
70°	1892.8	1223.1	403.2	242.2	197.5	181.3	162.4	156.9	142.1	116.4	110.9
72.5°	1749.4	1174.4	401.8	240.8	194.8	174.5	150.2	133.9	121.8	115.0	112.3
75°	1606.0	1141.9	396.4	239.5	190.8	165.1	136.6	116.4	100.1	101.5	104.2
77.5°	1363.8	1007.9	366.6	221.9	171.8	143.4	117.7	102.8	90.6	89.3	89.3
80°	1030.9	748.2	300.4	185.4	140.7	116.4	97.4	92.0	85.2	82.5	81.2
82.5°	570.9	393.7	193.5	138.0	110.9	90.6	82.5	82.5	78.5	74.4	74.4
85°	261.1	220.5	143.4	115.0	94.7	78.5	71.7	71.7	67.6	63.6	62.2
87.5°	202.9	174.5	121.8	106.9	92.0	77.1	69.0	69.0	64.9	62.2	62.2
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)