

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: P588589

Luminaire Tested: **ARC-CA6-120-727-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588589
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-CA6-120-727-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: 4816 lumens
Efficiency: N/A
Efficacy: 80.5 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

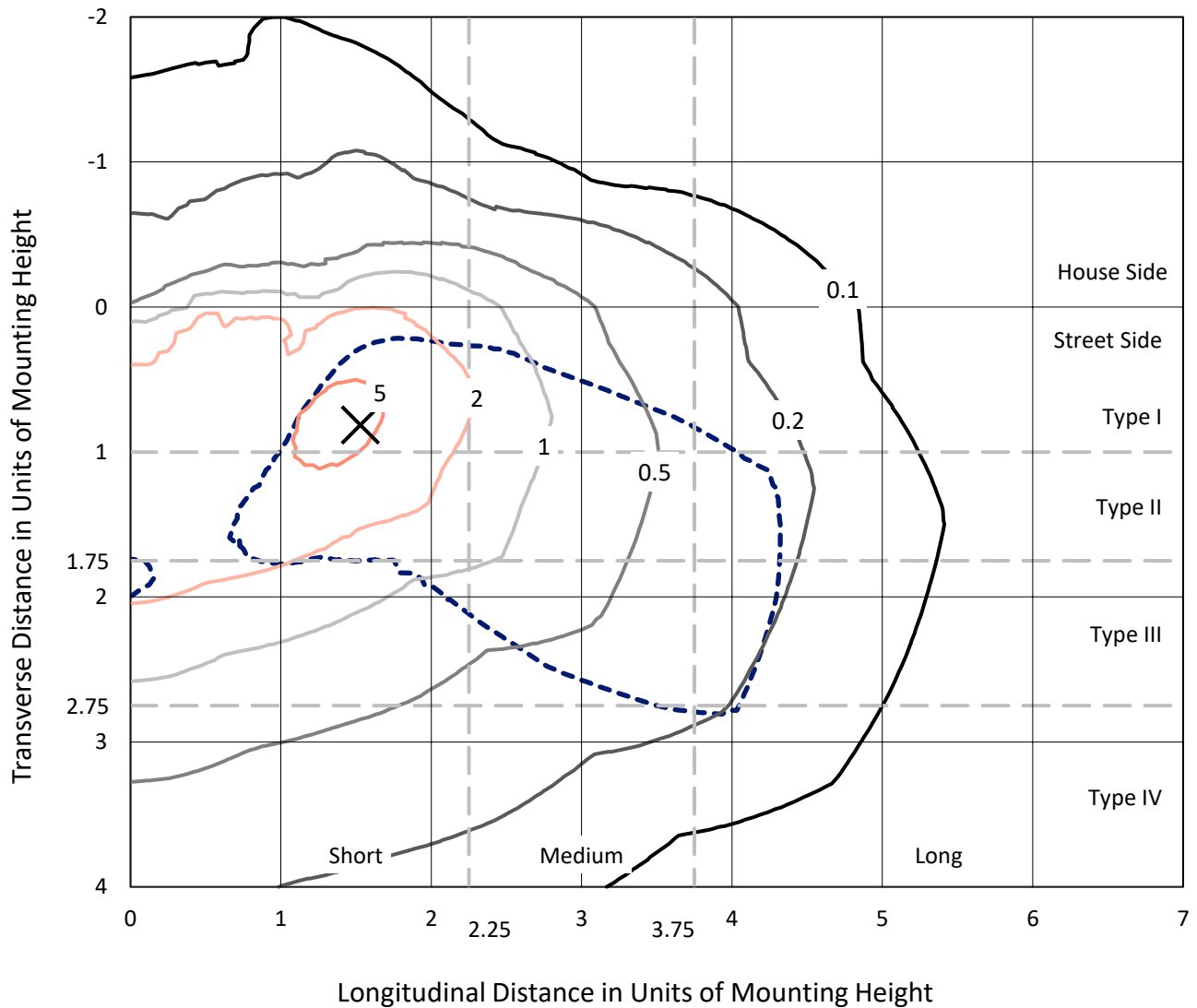
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

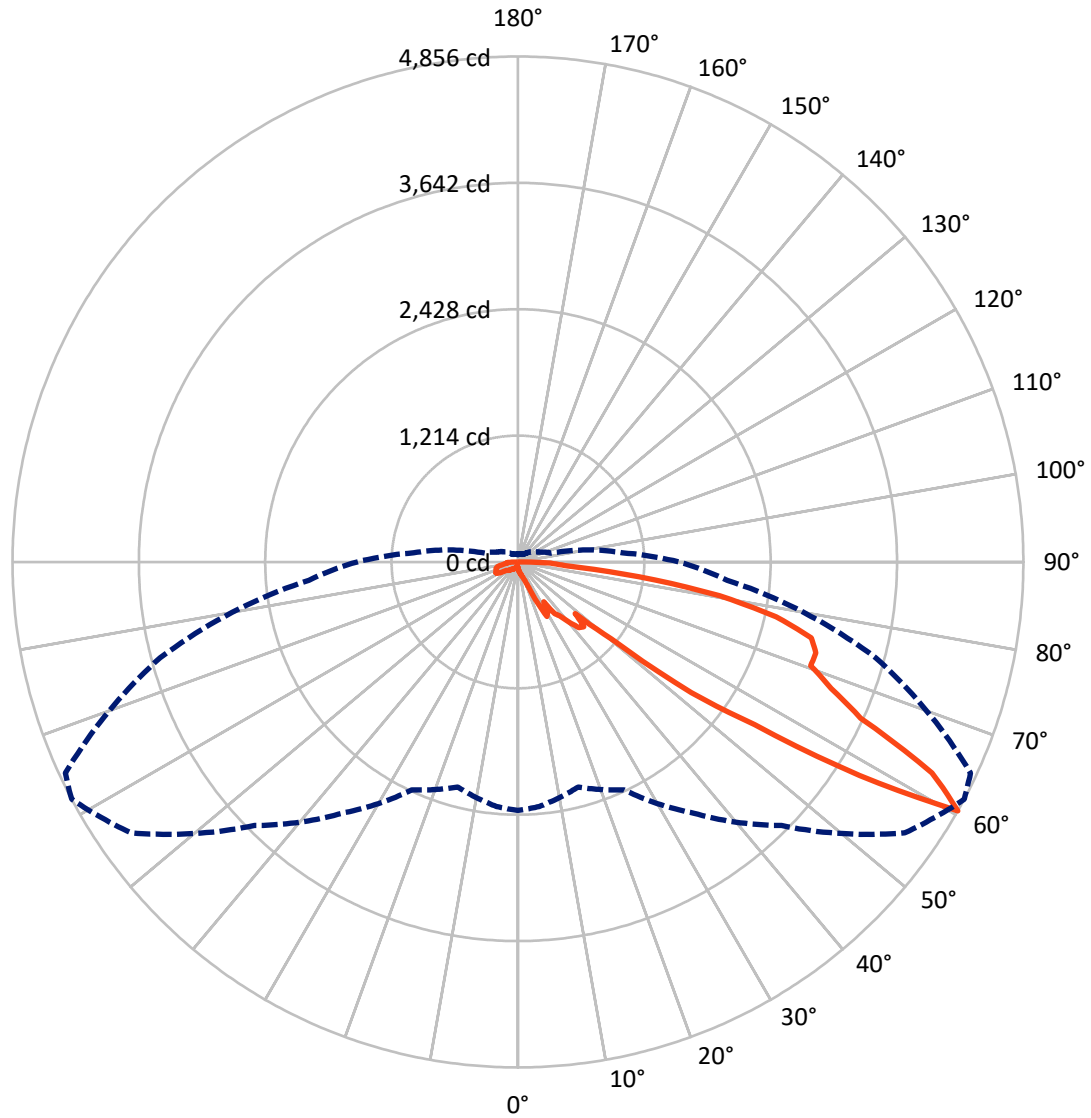
✕ Max cd
 - - - 1/2 Max cd



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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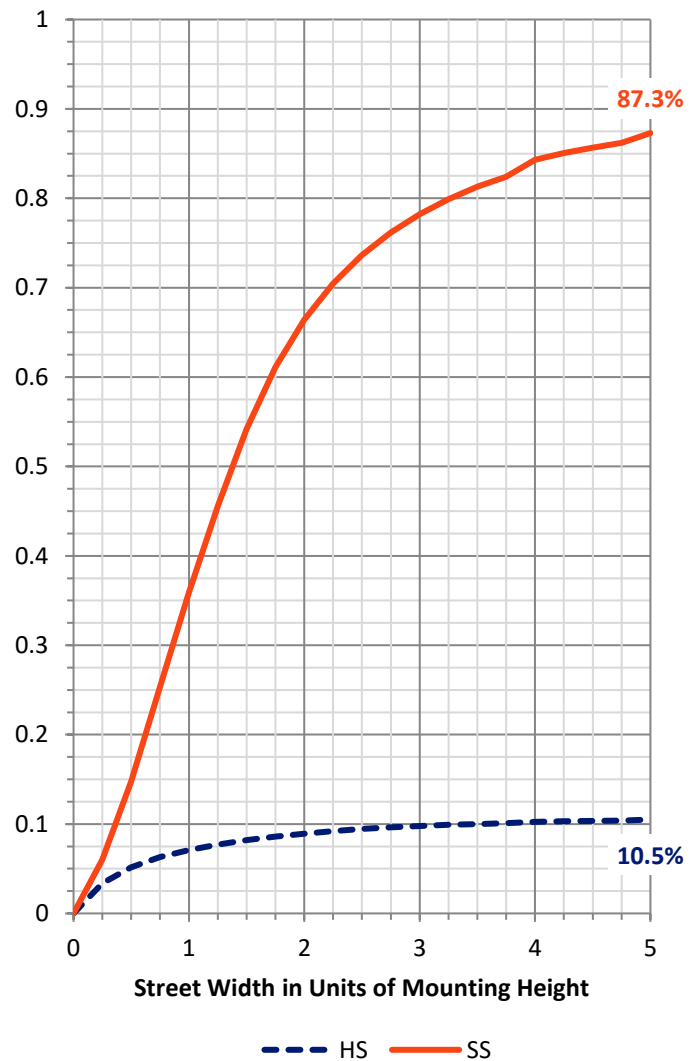
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	525.7	0.0	525.7
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	4290.3	0.0	4290.3
	% Fixture	89.1	0.0	89.1
Total	Lumens	4816.0	0.0	4816.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	0.1
10°-20°	27.3	0.6
20°-30°	102.2	2.1
30°-40°	201.8	4.2
40°-50°	349.2	7.3
50°-60°	1034.1	21.5
60°-70°	1527.7	31.7
70°-80°	1225.3	25.4
80°-90°	341.9	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°	4816.0	100.0
0°-180°	4816.0	100.0

Coefficient of Utilization



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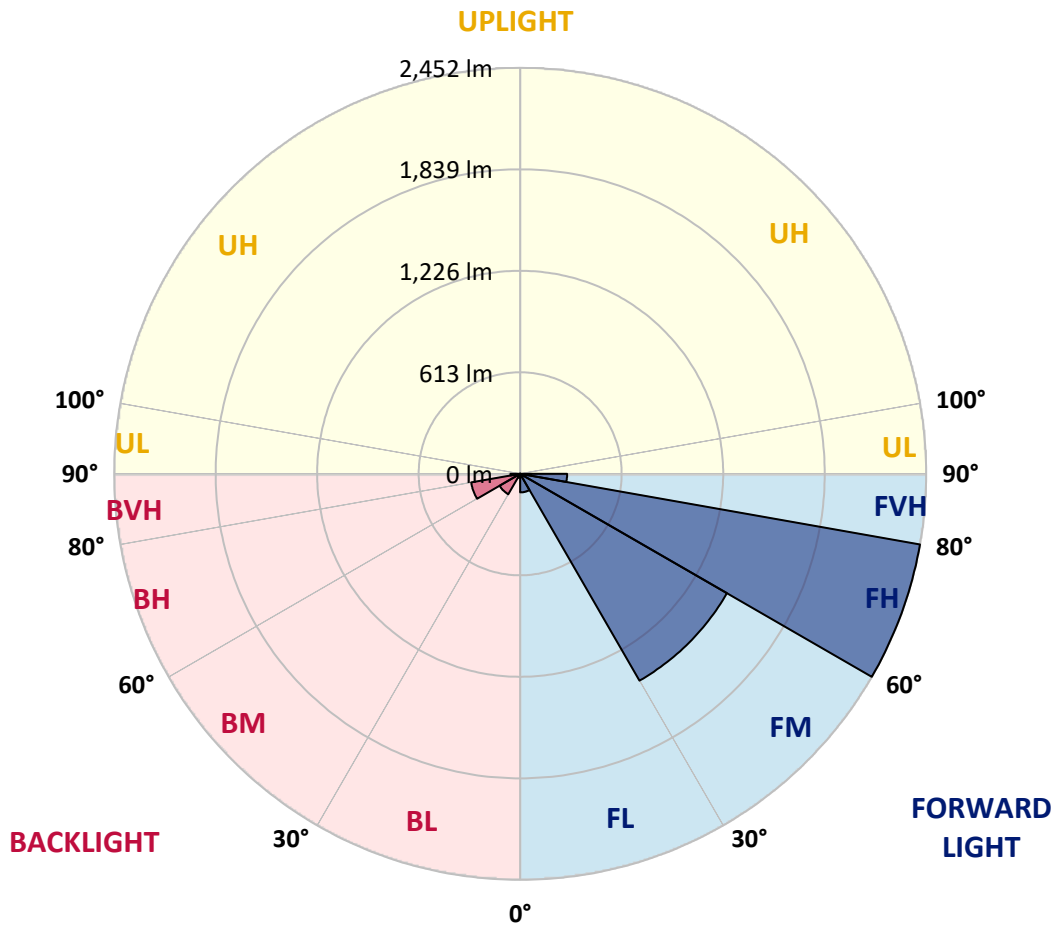
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	112.5	2.3			
FM (30°-60°)	1442.2	29.9			
FH (60°-80°)	2452.3	50.9			G2/5000
FVH (80°-90°)	283.3	5.9			G3/500
BL (0°-30°)	23.5	0.5	B0/110		
BM (30°-60°)	142.9	3.0	B0/220		
BH (60°-80°)	300.7	6.2	B1/500		G1/500
BVH (80°-90°)	58.6	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°	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
2.5°	80.7	79.4	76.8	74.2	72.9	71.6	70.3	69.0	67.7	63.8	61.2
5°	98.9	97.6	95.0	91.1	87.2	84.6	83.3	82.0	79.4	75.5	69.0
7.5°	111.9	111.9	111.9	109.3	105.4	100.2	96.3	93.7	91.1	85.9	79.4
10°	127.5	126.2	126.2	122.3	118.4	114.5	111.9	109.3	106.7	98.9	88.5
12.5°	139.2	137.9	136.6	132.7	131.4	127.5	126.2	121.0	118.4	109.3	96.3
15°	152.2	150.9	148.3	147.0	143.1	140.5	141.8	140.5	137.9	126.2	106.7
17.5°	166.5	165.2	163.9	163.9	163.9	161.3	160.0	157.4	154.8	136.6	113.2
20°	195.2	191.3	187.4	184.8	190.0	191.3	191.3	188.7	188.7	157.4	130.1
22.5°	248.5	244.6	242.0	222.5	230.3	266.7	278.4	265.4	268.0	206.9	143.1
25°	390.3	377.3	370.8	373.4	395.5	435.9	442.4	426.8	434.6	321.4	229.0
27.5°	456.7	459.3	510.0	562.1	568.6	589.4	624.5	592.0	575.1	411.1	286.2
30°	465.8	471.0	564.7	606.3	590.7	580.3	658.3	563.4	534.7	389.0	314.9
32.5°	429.4	452.8	553.0	569.9	533.4	476.2	533.4	454.1	445.0	338.3	299.2
35°	498.3	510.0	555.6	490.5	478.8	549.1	696.1	610.2	589.4	417.6	287.5
37.5°	603.7	599.8	687.0	737.7	719.5	647.9	724.7	659.6	642.7	525.6	411.1
40°	737.7	728.6	834.0	857.4	840.5	836.6	938.1	763.7	731.2	586.8	487.9
42.5°	775.4	778.0	845.7	902.9	889.9	888.6	1040.9	861.3	811.9	593.3	536.0
45°	792.4	806.7	936.8	901.6	914.7	891.2	1026.6	887.3	845.7	659.6	631.0
47.5°	688.3	696.1	875.6	876.9	711.7	716.9	837.9	739.0	709.1	516.5	543.9
50°	888.6	887.3	952.4	900.3	824.9	955.0	1199.6	1161.9	1139.7	775.4	603.7
52.5°	1285.5	1271.2	1370.0	1452.0	1436.4	1736.9	2101.2	2085.6	2006.3	1521.0	953.7
55°	1691.4	1684.9	1794.2	2083.0	2222.2	2504.6	2858.5	2759.6	2729.7	2240.5	1498.8
57.5°	2025.8	2027.1	2062.2	2310.7	2594.4	3140.8	3753.6	3869.4	3808.3	2892.3	1821.5
60°	2386.2	2357.6	2237.9	2414.8	2945.6	3580.6	4536.9	4855.6	4797.1	3558.5	2016.7
62.5°	2410.9	2382.3	2178.0	2357.6	2763.5	3347.7	4206.4	4465.3	4533.0	3739.3	2075.2
65°	2301.6	2266.5	2014.1	2148.1	2313.3	2667.2	3719.8	3617.0	3714.6	3683.4	2073.9
67.5°	2180.6	2152.0	1915.2	2027.1	2154.6	2391.4	3501.2	3244.9	3345.1	3464.8	2171.5
70°	2058.3	2018.0	1826.7	1947.7	2105.1	2265.2	3224.1	2983.4	2957.4	2935.2	2073.9
72.5°	2037.5	2006.3	1803.3	1887.9	2066.1	2184.5	3178.5	2993.8	2967.8	2831.1	1897.0
75°	1878.8	1876.2	1681.0	1760.4	1975.0	2049.2	3052.3	2910.5	2855.9	2680.2	1669.3
77.5°	1517.1	1497.5	1355.7	1439.0	1632.9	1735.6	2626.9	2534.5	2503.3	2339.3	1380.4
80°	1020.0	1003.1	942.0	990.1	1171.0	1260.7	1971.1	1963.3	1939.9	1831.9	1020.0
82.5°	580.3	608.9	551.7	573.8	636.2	746.8	1225.6	1172.3	1155.4	1078.6	579.0
85°	326.6	320.1	297.9	295.3	344.8	339.6	529.5	454.1	472.3	408.5	275.8
87.5°	235.5	240.7	217.3	217.3	240.7	238.1	333.1	313.6	311.0	291.4	197.8
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°	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
2.5°	59.8	58.5	54.6	50.7	44.2	37.7	33.8	36.4	37.7	39.0	39.0
5°	65.1	62.5	54.6	46.8	39.0	32.5	27.3	24.7	24.7	26.0	26.0
7.5°	76.8	72.9	62.5	53.3	42.9	36.4	29.9	26.0	23.4	23.4	23.4
10°	83.3	79.4	67.7	57.2	46.8	39.0	32.5	27.3	24.7	23.4	23.4
12.5°	89.8	84.6	72.9	61.2	49.4	40.3	33.8	28.6	27.3	27.3	27.3
15°	97.6	89.8	75.5	62.5	50.7	41.6	33.8	29.9	28.6	28.6	28.6
17.5°	105.4	97.6	80.7	63.8	52.0	41.6	35.1	29.9	28.6	29.9	29.9
20°	118.4	104.1	80.7	65.1	52.0	41.6	35.1	29.9	29.9	29.9	29.9
22.5°	124.9	113.2	85.9	66.4	53.3	42.9	35.1	29.9	29.9	29.9	29.9
25°	192.6	143.1	89.8	69.0	54.6	44.2	35.1	31.2	29.9	31.2	31.2
27.5°	242.0	201.7	102.8	72.9	55.9	45.5	36.4	31.2	31.2	32.5	32.5
30°	269.3	230.3	111.9	79.4	59.8	46.8	37.7	32.5	32.5	32.5	32.5
32.5°	256.3	208.2	113.2	87.2	66.4	49.4	39.0	33.8	33.8	33.8	33.8
35°	222.5	171.7	110.6	88.5	70.3	54.6	41.6	35.1	35.1	33.8	33.8
37.5°	311.0	216.0	114.5	88.5	72.9	58.5	45.5	37.7	36.4	35.1	35.1
40°	368.2	240.7	126.2	95.0	72.9	59.8	48.1	41.6	39.0	37.7	36.4
42.5°	408.5	264.1	135.3	104.1	80.7	62.5	49.4	45.5	41.6	39.0	39.0
45°	467.1	279.7	147.0	114.5	88.5	69.0	53.3	46.8	45.5	42.9	41.6
47.5°	426.8	284.9	158.7	126.2	97.6	75.5	58.5	50.7	49.4	46.8	45.5
50°	438.5	277.1	162.6	134.0	106.7	80.7	63.8	55.9	53.3	50.7	50.7
52.5°	598.5	366.9	178.2	137.9	110.6	88.5	69.0	61.2	58.5	55.9	55.9
55°	977.1	562.1	219.9	152.2	114.5	91.1	74.2	67.7	63.8	61.2	59.8
57.5°	1276.4	793.7	278.4	186.1	136.6	96.3	76.8	74.2	71.6	66.4	65.1
60°	1548.3	1005.7	327.9	223.8	171.7	124.9	88.5	82.0	80.7	72.9	70.3
62.5°	1769.5	1181.4	368.2	244.6	196.5	161.3	121.0	101.5	91.1	82.0	79.4
65°	1850.1	1239.9	383.8	248.5	203.0	179.5	152.2	137.9	108.0	93.7	91.1
67.5°	1881.4	1226.9	391.6	240.7	197.8	179.5	160.0	161.3	131.4	104.1	100.2
70°	1820.2	1176.2	387.7	232.9	190.0	174.3	156.1	150.9	136.6	111.9	106.7
72.5°	1682.3	1129.3	386.4	231.6	187.4	167.8	144.4	128.8	117.1	110.6	108.0
75°	1544.4	1098.1	381.2	230.3	183.5	158.7	131.4	111.9	96.3	97.6	100.2
77.5°	1311.5	969.3	352.6	213.4	165.2	137.9	113.2	98.9	87.2	85.9	85.9
80°	991.4	719.5	288.8	178.2	135.3	111.9	93.7	88.5	82.0	79.4	78.1
82.5°	549.1	378.6	186.1	132.7	106.7	87.2	79.4	79.4	75.5	71.6	71.6
85°	251.1	212.1	137.9	110.6	91.1	75.5	69.0	69.0	65.1	61.2	59.8
87.5°	195.2	167.8	117.1	102.8	88.5	74.2	66.4	66.4	62.5	59.8	59.8
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)