

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: P588611

Luminaire Tested: **ARC-CA6-80-722-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588611
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-CA6-80-722-U-33-6-5-X-GHSS
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE, TYPE III REFRACTOR AND HOUSE SIDE SHIELD
Light Source: (3) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3121 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 0.92')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

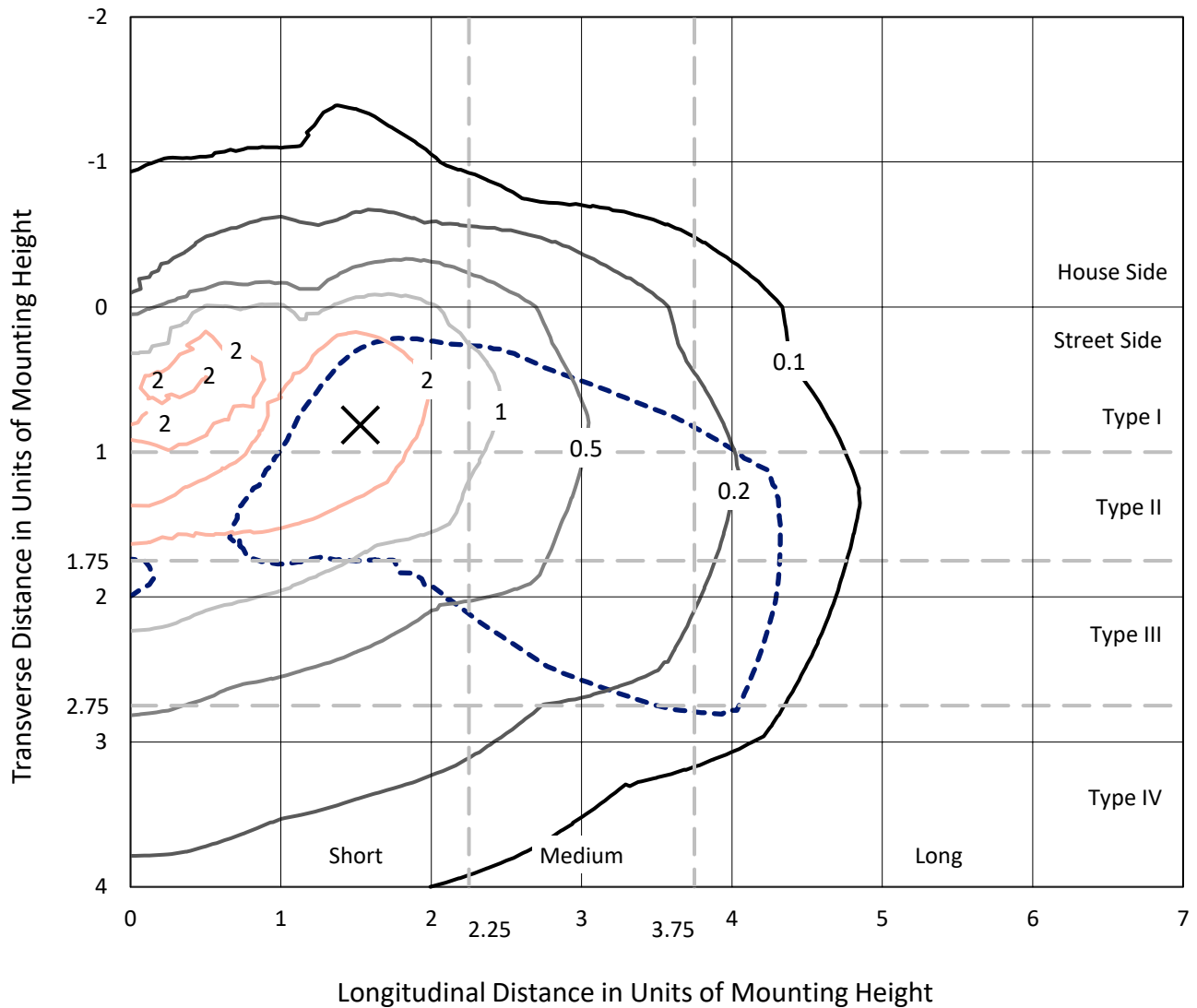
Input Watts (W): 42.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

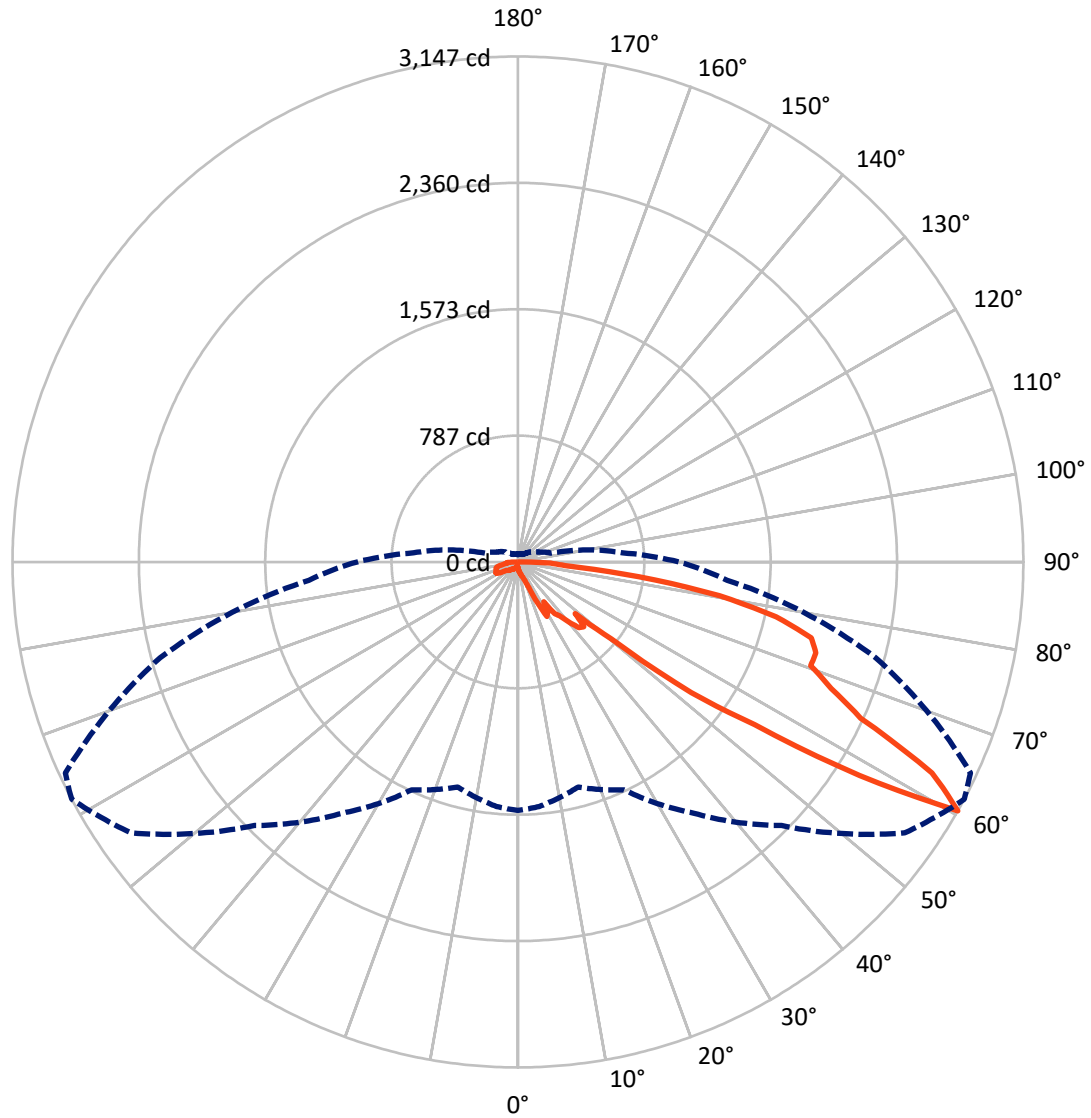
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.9 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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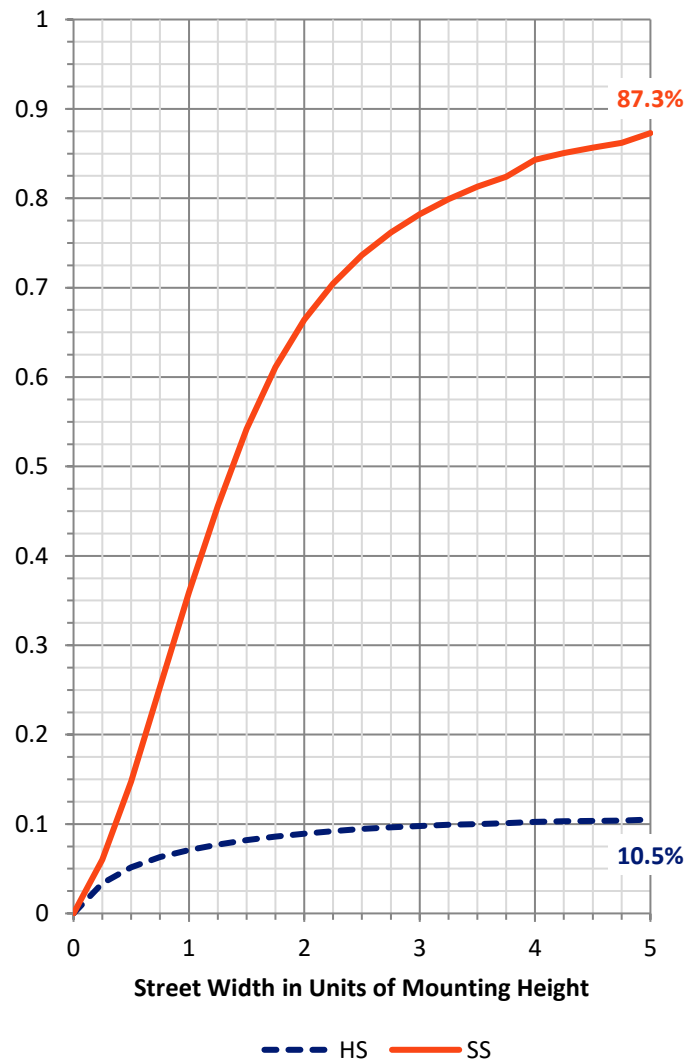
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	340.7	0.0	340.7
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	2780.3	0.0	2780.3
	% Fixture	89.1	0.0	89.1
Total	Lumens	3121.0	0.0	3121.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	0.1
10°-20°	17.7	0.6
20°-30°	66.2	2.1
30°-40°	130.8	4.2
40°-50°	226.3	7.3
50°-60°	670.1	21.5
60°-70°	990.0	31.7
70°-80°	794.1	25.4
80°-90°	221.6	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°	3121.0	100.0
0°-180°	3121.0	100.0

Coefficient of Utilization



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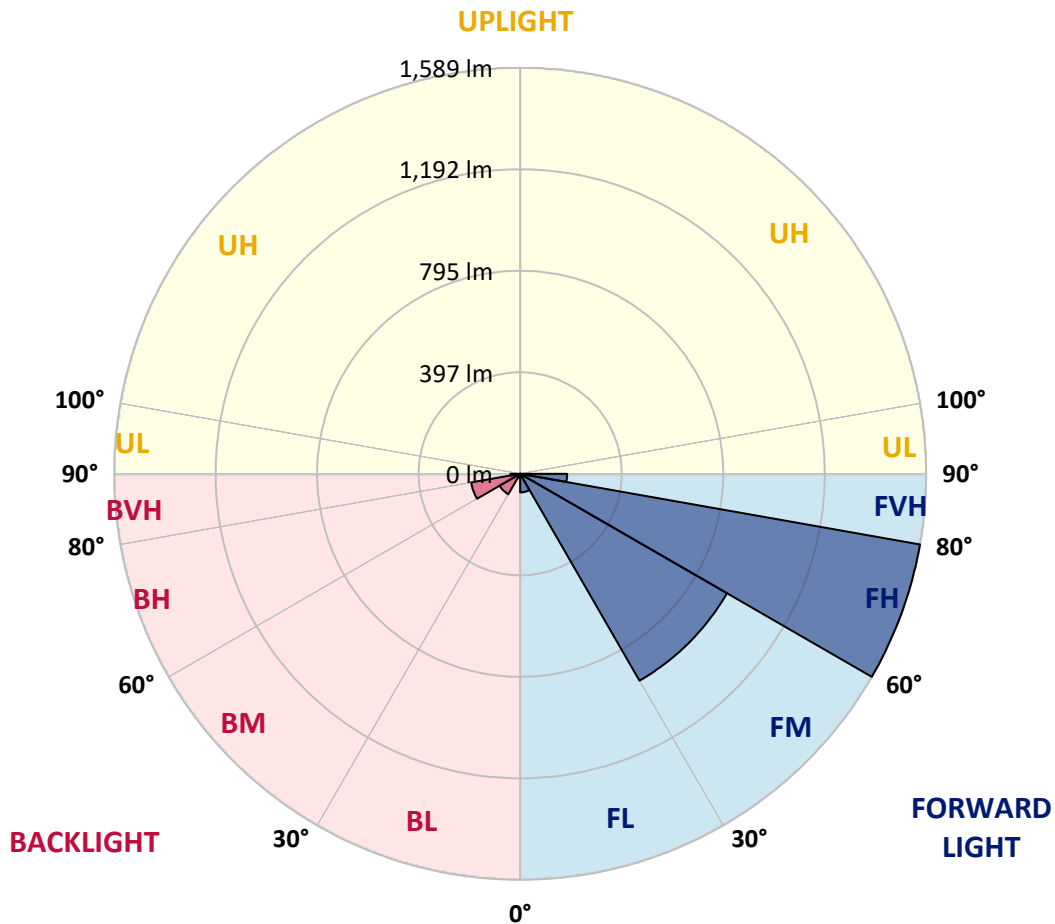
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	72.9	2.3			
FM (30°-60°)	934.6	29.9			
FH (60°-80°)	1589.2	50.9			G1/1800
FVH (80°-90°)	183.6	5.9			G2/225
BL (0°-30°)	15.2	0.5	B0/110		
BM (30°-60°)	92.6	3.0	B0/220		
BH (60°-80°)	194.9	6.2	B1/500		G1/500
BVH (80°-90°)	38.0	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
2.5°	52.3	51.4	49.7	48.1	47.2	46.4	45.5	44.7	43.8	41.3	39.6
5°	64.1	63.2	61.6	59.0	56.5	54.8	54.0	53.1	51.4	48.9	44.7
7.5°	72.5	72.5	72.5	70.8	68.3	64.9	62.4	60.7	59.0	55.6	51.4
10°	82.6	81.8	81.8	79.3	76.7	74.2	72.5	70.8	69.1	64.1	57.3
12.5°	90.2	89.4	88.5	86.0	85.2	82.6	81.8	78.4	76.7	70.8	62.4
15°	98.6	97.8	96.1	95.3	92.7	91.1	91.9	91.1	89.4	81.8	69.1
17.5°	107.9	107.1	106.2	106.2	106.2	104.6	103.7	102.0	100.3	88.5	73.4
20°	126.5	123.9	121.4	119.7	123.1	123.9	123.9	122.3	122.3	102.0	84.3
22.5°	161.0	158.5	156.8	144.2	149.2	172.8	180.4	172.0	173.7	134.1	92.7
25°	252.9	244.5	240.3	242.0	256.3	282.5	286.7	276.6	281.6	208.3	148.4
27.5°	295.9	297.6	330.5	364.2	368.5	382.0	404.7	383.6	372.7	266.4	185.5
30°	301.9	305.2	365.9	392.9	382.8	376.1	426.6	365.1	346.5	252.1	204.0
32.5°	278.2	293.4	358.3	369.3	345.7	308.6	345.7	294.3	288.4	219.2	193.9
35°	322.9	330.5	360.0	317.9	310.3	355.8	451.1	395.4	382.0	270.7	186.3
37.5°	391.2	388.7	445.2	478.1	466.3	419.9	469.6	427.5	416.5	340.6	266.4
40°	478.1	472.2	540.5	555.6	544.7	542.2	607.9	494.9	473.9	380.3	316.2
42.5°	502.5	504.2	548.1	585.2	576.7	575.9	674.5	558.2	526.1	384.5	347.4
45°	513.5	522.8	607.1	584.3	592.7	577.6	665.3	575.0	548.1	427.5	408.9
47.5°	446.0	451.1	567.4	568.3	461.2	464.6	543.0	478.9	459.5	334.7	352.4
50°	575.9	575.0	617.2	583.5	534.6	618.9	777.4	752.9	738.6	502.5	391.2
52.5°	833.0	823.8	887.8	941.0	930.9	1125.6	1361.7	1351.6	1300.2	985.7	618.0
55°	1096.1	1091.9	1162.7	1349.9	1440.1	1623.1	1852.4	1788.3	1769.0	1451.9	971.3
57.5°	1312.8	1313.6	1336.4	1497.5	1681.3	2035.4	2432.5	2507.6	2467.9	1874.3	1180.4
60°	1546.4	1527.8	1450.2	1564.9	1908.9	2320.4	2940.1	3146.7	3108.7	2306.0	1306.9
62.5°	1562.4	1543.8	1411.5	1527.8	1790.9	2169.5	2725.9	2893.7	2937.6	2423.2	1344.8
65°	1491.6	1468.8	1305.2	1392.1	1499.1	1728.5	2410.6	2344.0	2407.2	2387.0	1344.0
67.5°	1413.1	1394.6	1241.1	1313.6	1396.3	1549.7	2268.9	2102.8	2167.8	2245.3	1407.2
70°	1333.9	1307.7	1183.8	1262.2	1364.2	1467.9	2089.4	1933.4	1916.5	1902.2	1344.0
72.5°	1320.4	1300.2	1168.6	1223.4	1338.9	1415.7	2059.8	1940.1	1923.3	1834.7	1229.3
75°	1217.5	1215.8	1089.4	1140.8	1279.9	1328.0	1978.1	1886.2	1850.7	1736.9	1081.8
77.5°	983.1	970.5	878.6	932.5	1058.2	1124.8	1702.3	1642.5	1622.2	1516.0	894.6
80°	661.0	650.1	610.4	641.6	758.8	817.0	1277.4	1272.3	1257.2	1187.2	661.0
82.5°	376.1	394.6	357.5	371.8	412.3	484.0	794.3	759.7	748.7	699.0	375.2
85°	211.6	207.4	193.1	191.4	223.4	220.1	343.2	294.3	306.1	264.8	178.8
87.5°	152.6	156.0	140.8	140.8	156.0	154.3	215.8	203.2	201.5	188.9	128.2
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°	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
2.5°	38.8	37.9	35.4	32.9	28.7	24.5	21.9	23.6	24.5	25.3	25.3
5°	42.2	40.5	35.4	30.4	25.3	21.1	17.7	16.0	16.0	16.9	16.9
7.5°	49.7	47.2	40.5	34.6	27.8	23.6	19.4	16.9	15.2	15.2	15.2
10°	54.0	51.4	43.8	37.1	30.4	25.3	21.1	17.7	16.0	15.2	15.2
12.5°	58.2	54.8	47.2	39.6	32.0	26.1	21.9	18.5	17.7	17.7	17.7
15°	63.2	58.2	48.9	40.5	32.9	27.0	21.9	19.4	18.5	18.5	18.5
17.5°	68.3	63.2	52.3	41.3	33.7	27.0	22.8	19.4	18.5	19.4	19.4
20°	76.7	67.5	52.3	42.2	33.7	27.0	22.8	19.4	19.4	19.4	19.4
22.5°	80.9	73.4	55.6	43.0	34.6	27.8	22.8	19.4	19.4	19.4	19.4
25°	124.8	92.7	58.2	44.7	35.4	28.7	22.8	20.2	19.4	20.2	20.2
27.5°	156.8	130.7	66.6	47.2	36.3	29.5	23.6	20.2	20.2	21.1	21.1
30°	174.5	149.2	72.5	51.4	38.8	30.4	24.5	21.1	21.1	21.1	21.1
32.5°	166.1	134.9	73.4	56.5	43.0	32.0	25.3	21.9	21.9	21.9	21.9
35°	144.2	111.3	71.7	57.3	45.5	35.4	27.0	22.8	22.8	21.9	21.9
37.5°	201.5	140.0	74.2	57.3	47.2	37.9	29.5	24.5	23.6	22.8	22.8
40°	238.6	156.0	81.8	61.6	47.2	38.8	31.2	27.0	25.3	24.5	23.6
42.5°	264.8	171.2	87.7	67.5	52.3	40.5	32.0	29.5	27.0	25.3	25.3
45°	302.7	181.3	95.3	74.2	57.3	44.7	34.6	30.4	29.5	27.8	27.0
47.5°	276.6	184.7	102.9	81.8	63.2	48.9	37.9	32.9	32.0	30.4	29.5
50°	284.1	179.6	105.4	86.8	69.1	52.3	41.3	36.3	34.6	32.9	32.9
52.5°	387.9	237.8	115.5	89.4	71.7	57.3	44.7	39.6	37.9	36.3	36.3
55°	633.2	364.2	142.5	98.6	74.2	59.0	48.1	43.8	41.3	39.6	38.8
57.5°	827.1	514.3	180.4	120.6	88.5	62.4	49.7	48.1	46.4	43.0	42.2
60°	1003.4	651.8	212.5	145.0	111.3	80.9	57.3	53.1	52.3	47.2	45.5
62.5°	1146.7	765.6	238.6	158.5	127.3	104.6	78.4	65.8	59.0	53.1	51.4
65°	1199.0	803.5	248.7	161.0	131.5	116.4	98.6	89.4	70.0	60.7	59.0
67.5°	1219.2	795.1	253.8	156.0	128.2	116.4	103.7	104.6	85.2	67.5	64.9
70°	1179.6	762.2	251.3	150.9	123.1	113.0	101.2	97.8	88.5	72.5	69.1
72.5°	1090.2	731.9	250.4	150.1	121.4	108.8	93.6	83.5	75.9	71.7	70.0
75°	1000.8	711.6	247.0	149.2	118.9	102.9	85.2	72.5	62.4	63.2	64.9
77.5°	849.9	628.2	228.5	138.3	107.1	89.4	73.4	64.1	56.5	55.6	55.6
80°	642.5	466.3	187.2	115.5	87.7	72.5	60.7	57.3	53.1	51.4	50.6
82.5°	355.8	245.4	120.6	86.0	69.1	56.5	51.4	51.4	48.9	46.4	46.4
85°	162.7	137.4	89.4	71.7	59.0	48.9	44.7	44.7	42.2	39.6	38.8
87.5°	126.5	108.8	75.9	66.6	57.3	48.1	43.0	43.0	40.5	38.8	38.8
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)