

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: P588623

Luminaire Tested: **ARC-CA6-90-722-U-33-6-5-X-GHSS**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588623
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-CA6-90-722-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: 3449 lumens
Efficiency: N/A
Efficacy: 73.1 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

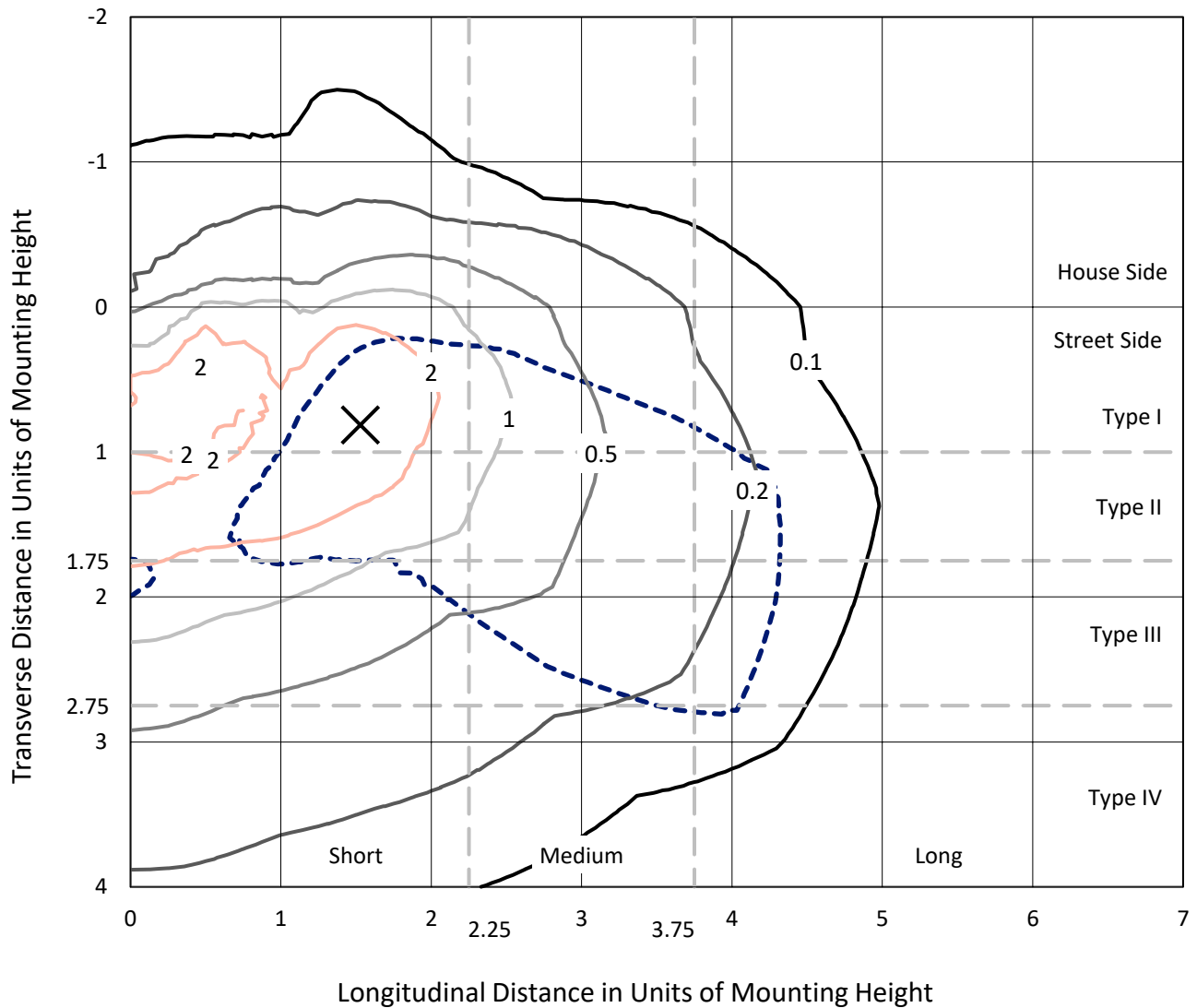
Input Watts (W): 47.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

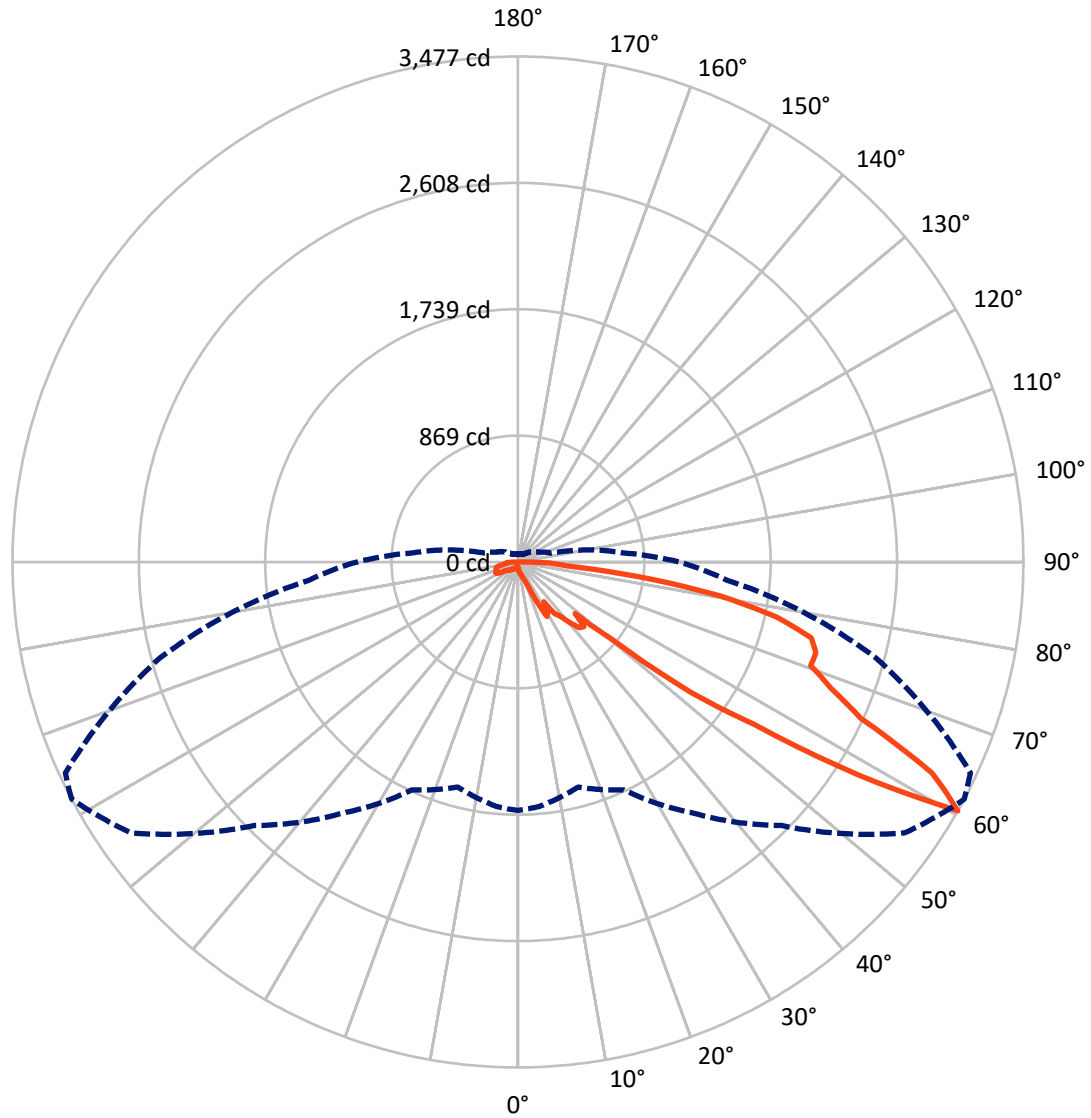
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.3 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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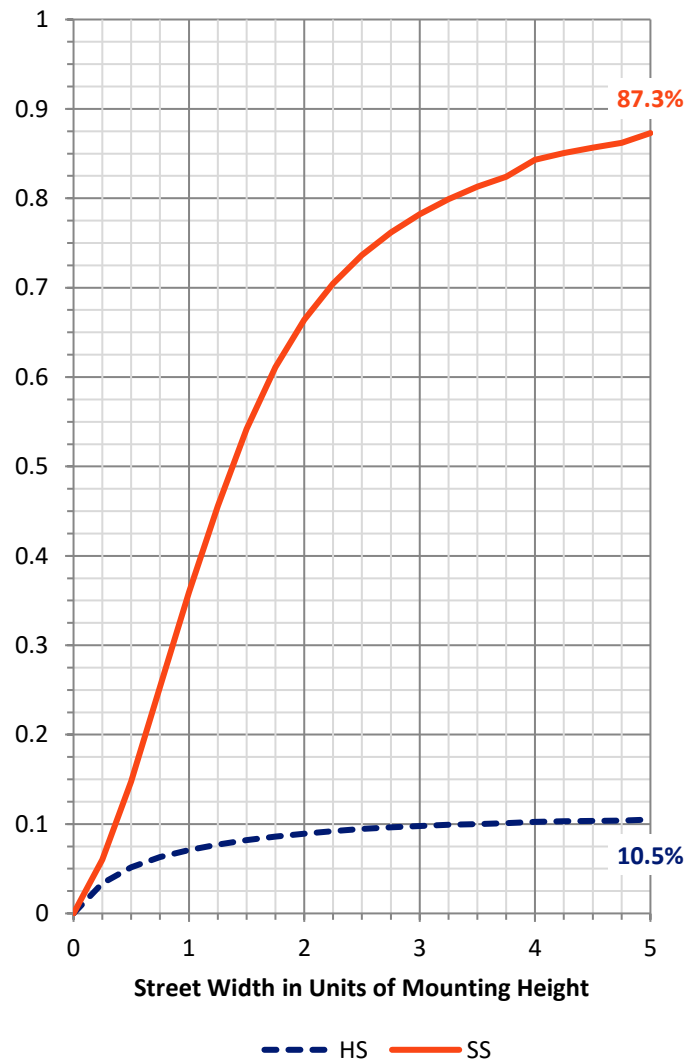
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	376.5	0.0	376.5
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	3072.5	0.0	3072.5
	% Fixture	89.1	0.0	89.1
Total	Lumens	3449.0	0.0	3449.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.6	0.1
10°-20°	19.6	0.6
20°-30°	73.2	2.1
30°-40°	144.5	4.2
40°-50°	250.1	7.3
50°-60°	740.6	21.5
60°-70°	1094.1	31.7
70°-80°	877.5	25.4
80°-90°	244.9	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°	3449.0	100.0
0°-180°	3449.0	100.0

Coefficient of Utilization



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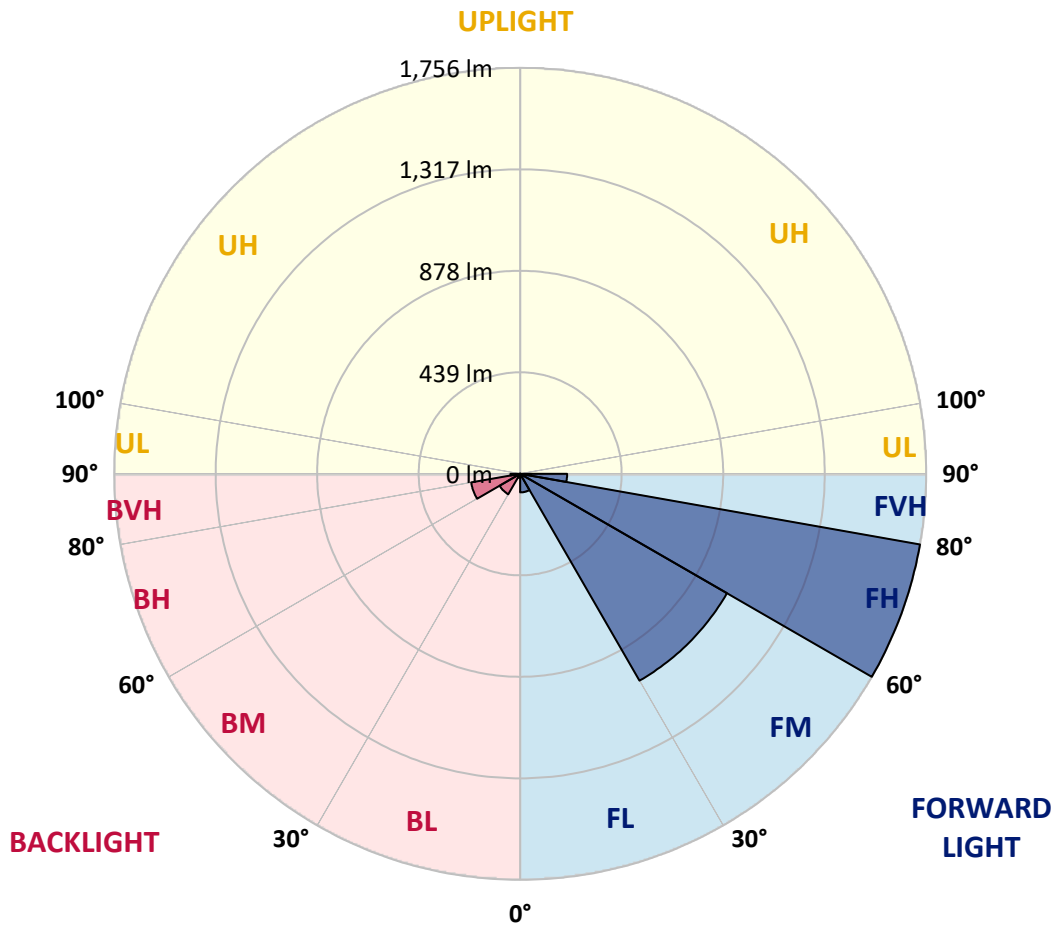
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	80.6	2.3			
FM (30°-60°)	1032.8	29.9			
FH (60°-80°)	1756.2	50.9			G1/1800
FVH (80°-90°)	202.9	5.9			G2/225
BL (0°-30°)	16.8	0.5	B0/110		
BM (30°-60°)	102.4	3.0	B0/220		
BH (60°-80°)	215.4	6.2	B1/500		G1/500
BVH (80°-90°)	42.0	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°	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
2.5°	57.8	56.8	55.0	53.1	52.2	51.2	50.3	49.4	48.5	45.7	43.8
5°	70.8	69.9	68.0	65.2	62.4	60.6	59.6	58.7	56.8	54.0	49.4
7.5°	80.1	80.1	80.1	78.3	75.5	71.7	69.0	67.1	65.2	61.5	56.8
10°	91.3	90.4	90.4	87.6	84.8	82.0	80.1	78.3	76.4	70.8	63.4
12.5°	99.7	98.8	97.8	95.0	94.1	91.3	90.4	86.7	84.8	78.3	69.0
15°	109.0	108.1	106.2	105.3	102.5	100.6	101.6	100.6	98.8	90.4	76.4
17.5°	119.3	118.3	117.4	117.4	117.4	115.5	114.6	112.7	110.9	97.8	81.1
20°	139.8	137.0	134.2	132.3	136.0	137.0	137.0	135.1	135.1	112.7	93.2
22.5°	178.0	175.2	173.3	159.3	164.9	191.0	199.4	190.1	191.9	148.2	102.5
25°	279.5	270.2	265.6	267.4	283.3	312.1	316.8	305.6	311.2	230.1	164.0
27.5°	327.1	328.9	365.3	402.5	407.2	422.1	447.3	424.0	411.8	294.4	205.0
30°	333.6	337.3	404.4	434.2	423.0	415.6	471.5	403.5	383.0	278.6	225.5
32.5°	307.5	324.3	396.0	408.1	382.0	341.0	382.0	325.2	318.7	242.3	214.3
35°	356.9	365.3	397.9	351.3	342.9	393.2	498.5	437.0	422.1	299.1	205.9
37.5°	432.3	429.5	492.0	528.3	515.3	464.0	519.0	472.4	460.3	376.4	294.4
40°	528.3	521.8	597.3	614.0	601.9	599.1	671.8	547.0	523.7	420.2	349.4
42.5°	555.3	557.2	605.7	646.7	637.3	636.4	745.4	616.8	581.4	424.9	383.9
45°	567.5	577.7	670.9	645.7	655.0	638.3	735.2	635.5	605.7	472.4	451.9
47.5°	492.9	498.5	627.1	628.0	509.7	513.4	600.1	529.2	507.8	369.9	389.5
50°	636.4	635.5	682.1	644.8	590.7	683.9	859.1	832.1	816.2	555.3	432.3
52.5°	920.6	910.3	981.2	1039.9	1028.7	1243.9	1504.8	1493.6	1436.8	1089.2	683.0
55°	1211.3	1206.6	1284.9	1491.8	1591.5	1793.7	2047.1	1976.3	1954.9	1604.5	1073.4
57.5°	1450.8	1451.7	1476.9	1654.8	1858.0	2249.3	2688.2	2771.1	2727.3	2071.3	1304.5
60°	1708.9	1688.4	1602.7	1729.4	2109.5	2564.2	3249.1	3477.4	3435.4	2548.4	1444.2
62.5°	1726.6	1706.1	1559.8	1688.4	1979.1	2397.5	3012.4	3197.8	3246.3	2677.9	1486.2
65°	1648.3	1623.1	1442.4	1538.4	1656.7	1910.1	2663.9	2590.3	2660.2	2637.9	1485.2
67.5°	1561.7	1541.2	1371.6	1451.7	1543.0	1712.6	2507.4	2323.8	2395.6	2481.3	1555.1
70°	1474.1	1445.2	1308.2	1394.9	1507.6	1622.2	2308.9	2136.6	2117.9	2102.1	1485.2
72.5°	1459.2	1436.8	1291.4	1352.0	1479.7	1564.4	2276.3	2144.0	2125.4	2027.5	1358.5
75°	1345.5	1343.6	1203.9	1260.7	1414.4	1467.5	2185.9	2084.4	2045.2	1919.5	1195.5
77.5°	1086.4	1072.5	970.9	1030.5	1169.4	1243.0	1881.3	1815.1	1792.7	1675.3	988.6
80°	730.5	718.4	674.6	709.1	838.6	902.9	1411.6	1406.0	1389.3	1311.9	730.5
82.5°	415.6	436.1	395.1	410.9	455.6	534.8	877.7	839.5	827.4	772.4	414.6
85°	233.9	229.2	213.4	211.5	246.9	243.2	379.2	325.2	338.2	292.6	197.5
87.5°	168.7	172.4	155.6	155.6	172.4	170.5	238.5	224.6	222.7	208.7	141.6
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°	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
2.5°	42.9	41.9	39.1	36.3	31.7	27.0	24.2	26.1	27.0	28.0	28.0
5°	46.6	44.7	39.1	33.5	28.0	23.3	19.6	17.7	17.7	18.6	18.6
7.5°	55.0	52.2	44.7	38.2	30.7	26.1	21.4	18.6	16.8	16.8	16.8
10°	59.6	56.8	48.5	41.0	33.5	28.0	23.3	19.6	17.7	16.8	16.8
12.5°	64.3	60.6	52.2	43.8	35.4	28.9	24.2	20.5	19.6	19.6	19.6
15°	69.9	64.3	54.0	44.7	36.3	29.8	24.2	21.4	20.5	20.5	20.5
17.5°	75.5	69.9	57.8	45.7	37.3	29.8	25.2	21.4	20.5	21.4	21.4
20°	84.8	74.5	57.8	46.6	37.3	29.8	25.2	21.4	21.4	21.4	21.4
22.5°	89.5	81.1	61.5	47.5	38.2	30.7	25.2	21.4	21.4	21.4	21.4
25°	137.9	102.5	64.3	49.4	39.1	31.7	25.2	22.4	21.4	22.4	22.4
27.5°	173.3	144.4	73.6	52.2	40.1	32.6	26.1	22.4	22.4	23.3	23.3
30°	192.9	164.9	80.1	56.8	42.9	33.5	27.0	23.3	23.3	23.3	23.3
32.5°	183.6	149.1	81.1	62.4	47.5	35.4	28.0	24.2	24.2	24.2	24.2
35°	159.3	123.0	79.2	63.4	50.3	39.1	29.8	25.2	25.2	24.2	24.2
37.5°	222.7	154.7	82.0	63.4	52.2	41.9	32.6	27.0	26.1	25.2	25.2
40°	263.7	172.4	90.4	68.0	52.2	42.9	34.5	29.8	28.0	27.0	26.1
42.5°	292.6	189.2	96.9	74.5	57.8	44.7	35.4	32.6	29.8	28.0	28.0
45°	334.5	200.3	105.3	82.0	63.4	49.4	38.2	33.5	32.6	30.7	29.8
47.5°	305.6	204.1	113.7	90.4	69.9	54.0	41.9	36.3	35.4	33.5	32.6
50°	314.0	198.5	116.5	96.0	76.4	57.8	45.7	40.1	38.2	36.3	36.3
52.5°	428.6	262.8	127.7	98.8	79.2	63.4	49.4	43.8	41.9	40.1	40.1
55°	699.8	402.5	157.5	109.0	82.0	65.2	53.1	48.5	45.7	43.8	42.9
57.5°	914.1	568.4	199.4	133.2	97.8	69.0	55.0	53.1	51.2	47.5	46.6
60°	1108.8	720.3	234.8	160.3	123.0	89.5	63.4	58.7	57.8	52.2	50.3
62.5°	1267.2	846.1	263.7	175.2	140.7	115.5	86.7	72.7	65.2	58.7	56.8
65°	1325.0	888.0	274.9	178.0	145.4	128.6	109.0	98.8	77.3	67.1	65.2
67.5°	1347.3	878.7	280.5	172.4	141.6	128.6	114.6	115.5	94.1	74.5	71.7
70°	1303.6	842.3	277.7	166.8	136.0	124.9	111.8	108.1	97.8	80.1	76.4
72.5°	1204.8	808.8	276.7	165.9	134.2	120.2	103.4	92.2	83.9	79.2	77.3
75°	1106.0	786.4	273.0	164.9	131.4	113.7	94.1	80.1	69.0	69.9	71.7
77.5°	939.2	694.2	252.5	152.8	118.3	98.8	81.1	70.8	62.4	61.5	61.5
80°	710.0	515.3	206.9	127.7	96.9	80.1	67.1	63.4	58.7	56.8	55.9
82.5°	393.2	271.1	133.2	95.0	76.4	62.4	56.8	56.8	54.0	51.2	51.2
85°	179.8	151.9	98.8	79.2	65.2	54.0	49.4	49.4	46.6	43.8	42.9
87.5°	139.8	120.2	83.9	73.6	63.4	53.1	47.5	47.5	44.7	42.9	42.9
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)