

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: P1210644

Luminaire Tested: **ARCH3-190-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-190-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15012 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

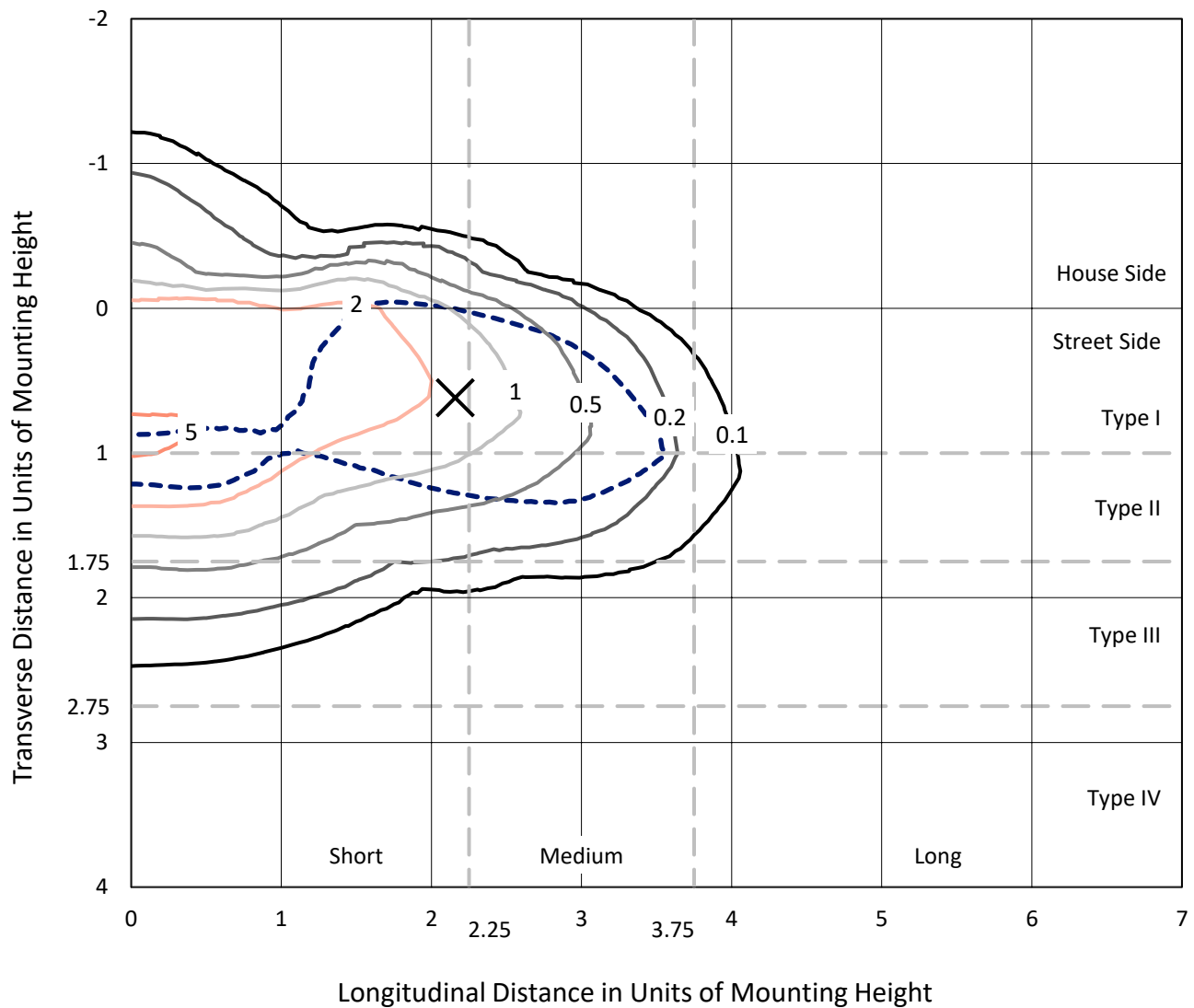
Input Watts (W): 189.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

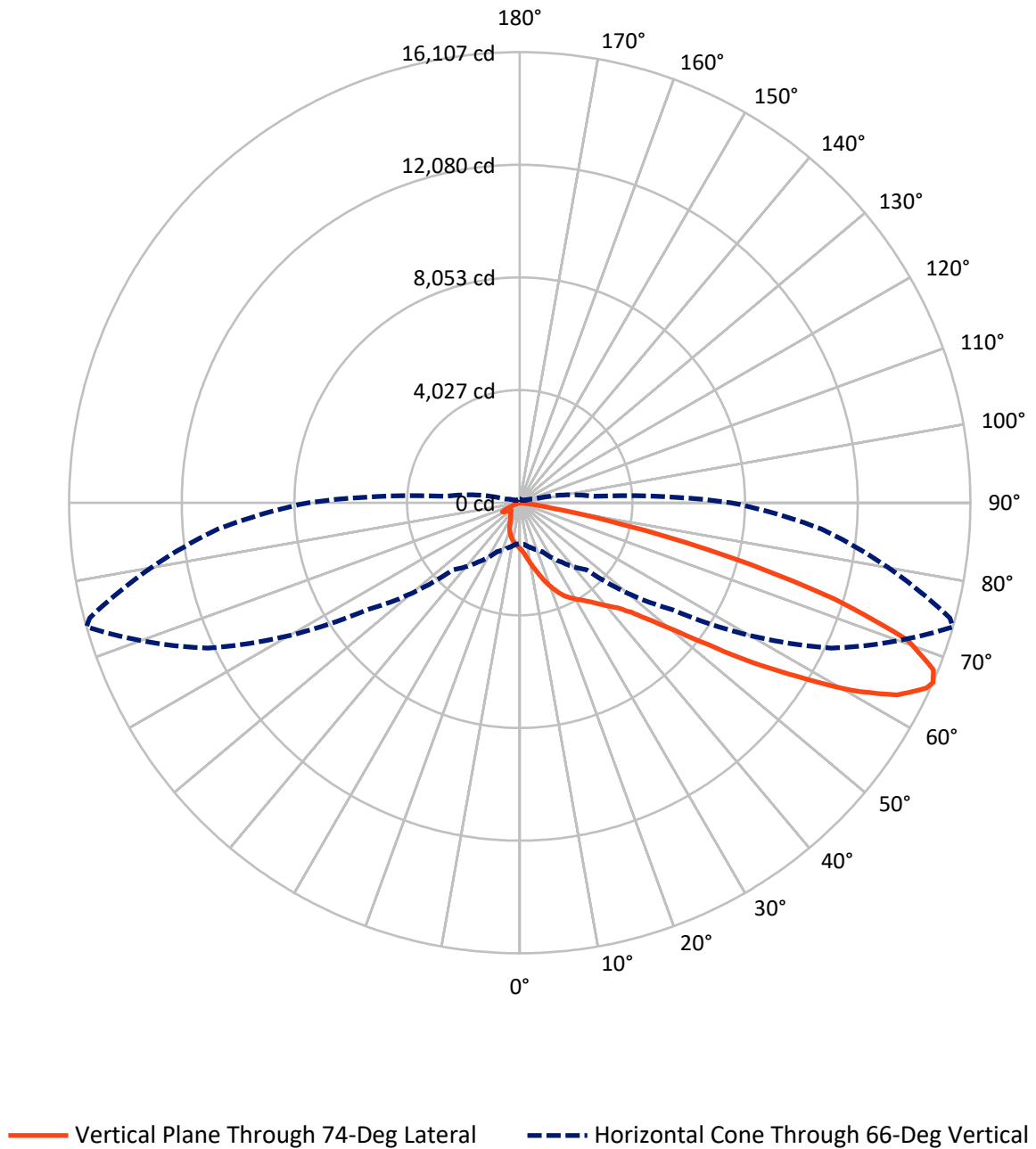
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1471.7	0.0	1471.7
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	13540.3	0.0	13540.3
	% Fixture	90.2	0.0	90.2
Total	Lumens	15012.0	0.0	15012.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.9	1.1
10°-20°	512.8	3.4
20°-30°	978.6	6.5
30°-40°	1715.2	11.4
40°-50°	2941.1	19.6
50°-60°	3825.2	25.5
60°-70°	3462.7	23.1
70°-80°	1336.1	8.9
80°-90°	80.4	0.5
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°	15012.0	100.0
0°-180°	15012.0	100.0

Coefficient of Utilization



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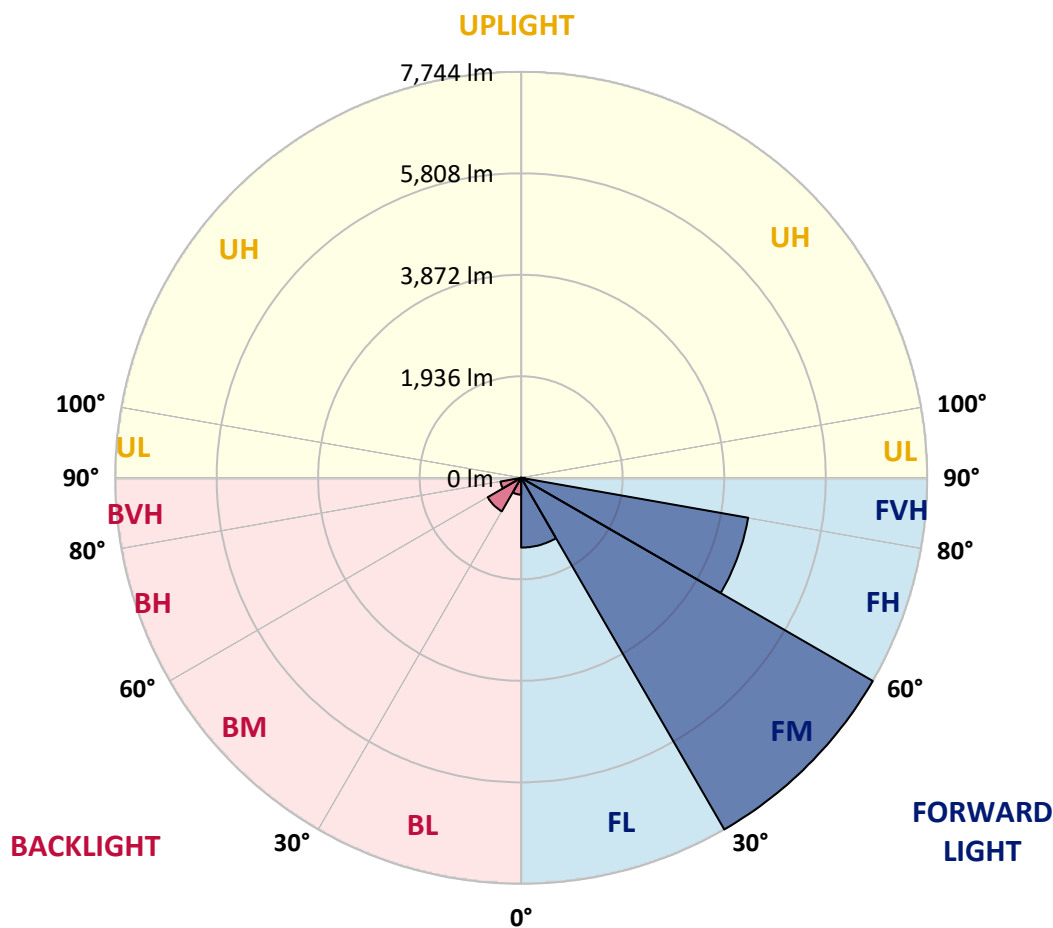
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1330.3	8.9			
FM	(30°-60°)	7743.9	51.6			
FH	(60°-80°)	4396.5	29.3			G2/5000
FVH	(80°-90°)	69.6	0.5			G1/100
BL	(0°-30°)	321.0	2.1	B1/500		
BM	(30°-60°)	737.5	4.9	B1/1000		
BH	(60°-80°)	402.3	2.7	B1/500		G1/500
BVH	(80°-90°)	10.8	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7
2.5°	1967.5	1951.3	1921.7	1919.0	1894.7	1865.1	1813.9	1760.0	1722.2	1716.9	1671.0
5°	2355.6	2347.5	2317.9	2299.0	2253.2	2183.1	2064.5	1945.9	1846.2	1835.4	1733.0
7.5°	2458.0	2463.4	2468.8	2487.7	2471.5	2439.2	2350.2	2183.1	2026.8	2002.5	1824.7
10°	2474.2	2468.8	2468.8	2493.1	2538.9	2584.7	2573.9	2431.1	2228.9	2199.3	1951.3
12.5°	2649.4	2657.5	2638.6	2627.8	2619.7	2644.0	2724.9	2662.9	2441.9	2417.6	2105.0
15°	2875.8	2873.1	2846.1	2846.1	2821.9	2781.5	2832.7	2878.5	2697.9	2668.3	2280.2
17.5°	3040.2	3051.0	3048.3	3064.5	3056.4	3002.5	2975.5	3069.8	2962.0	2924.3	2479.6
20°	3172.3	3201.9	3212.7	3263.9	3288.2	3250.4	3180.4	3239.6	3215.4	3180.4	2681.7
22.5°	3312.4	3336.7	3355.5	3444.5	3511.9	3503.8	3414.8	3401.4	3460.7	3428.3	2881.2
25°	3452.6	3463.3	3519.9	3627.8	3735.6	3762.5	3670.9	3565.8	3681.7	3652.0	3059.1
27.5°	3606.2	3611.6	3679.0	3811.0	3962.0	4018.6	3945.8	3751.7	3851.5	3851.5	3220.8
30°	3886.5	3940.4	3967.4	4085.9	4218.0	4296.2	4209.9	3948.5	4002.4	4026.6	3390.6
32.5°	4490.2	4498.3	4490.2	4541.4	4568.4	4614.2	4514.5	4169.5	4156.0	4183.0	3557.7
35°	5412.0	5379.6	5293.4	5217.9	5061.6	4975.4	4846.0	4452.5	4344.7	4382.4	3722.1
37.5°	6530.5	6484.7	6287.9	6056.1	5721.9	5377.0	5215.2	4797.5	4584.6	4633.1	3900.0
40°	7597.8	7568.2	7333.7	7048.0	6476.6	5886.3	5544.1	5088.6	4851.4	4870.3	4080.6
42.5°	8476.4	8471.1	8274.3	7975.1	7242.0	6436.2	5932.2	5374.3	5131.7	5161.3	4269.2
45°	9142.2	9091.0	8945.4	8729.8	7983.2	7007.6	6401.1	5808.2	5581.8	5616.8	4552.2
47.5°	9142.2	9150.2	9244.6	9223.0	8500.7	7543.9	6913.2	6355.3	6247.5	6279.8	5018.5
50°	8398.3	8473.8	8894.2	9247.3	8770.2	7961.7	7465.7	7039.9	7150.4	7198.9	5832.4
52.5°	6926.7	7053.4	7783.8	8589.6	8570.8	8171.9	8037.1	7910.5	8406.4	8492.6	7034.5
55°	5263.8	5347.3	6298.7	7357.9	7702.9	7999.4	8535.7	9015.5	10069.3	10050.4	8255.4
57.5°	3932.3	4010.5	4829.8	6004.9	6460.4	7252.8	8791.8	10279.5	11718.8	11791.6	9400.9
60°	2892.0	2951.3	3649.3	4614.2	5271.8	6110.0	8689.4	11524.7	13618.9	13535.4	10411.6
62.5°	2140.0	2172.3	2676.3	3304.3	4177.6	4978.1	8045.2	12376.4	15136.3	14966.5	10974.9
65°	1654.9	1665.6	1927.1	2261.3	3037.5	3870.3	7085.7	12505.8	15974.5	15793.9	10964.1
66°	1474.3	1482.4	1673.7	1932.5	2584.7	3387.9	6665.3	12298.3	16106.6	15915.2	10829.4
67.5°	1237.1	1231.7	1344.9	1514.7	1940.6	2614.4	5918.7	11691.8	15950.3	15853.2	10398.1
70°	916.4	919.1	975.7	1016.1	1134.7	1447.3	4274.6	10142.1	14699.7	14694.3	9214.9
72.5°	679.2	687.3	730.4	738.5	708.8	784.3	2463.4	8066.8	11759.2	11761.9	6889.0
75°	509.4	522.9	536.3	541.7	514.8	495.9	1113.1	5428.2	7735.3	7678.7	3900.0
77.5°	388.1	393.5	404.3	396.2	390.8	342.3	463.6	2646.7	3819.1	3479.5	1264.1
80°	283.0	283.0	293.8	283.0	280.3	245.3	253.4	849.0	1121.2	932.5	272.2
82.5°	177.9	175.2	183.3	180.6	175.2	156.3	148.2	237.2	258.7	231.8	132.1
85°	99.7	97.0	94.3	91.6	83.6	70.1	80.9	88.9	118.6	121.3	94.3
87.5°	35.0	35.0	32.3	29.6	24.3	24.3	29.6	29.6	43.1	43.1	48.5
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°	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7
2.5°	1649.5	1619.8	1576.7	1520.1	1479.7	1439.2	1396.1	1371.9	1336.8	1328.7	1339.5
5°	1679.1	1625.2	1517.4	1398.8	1296.4	1204.8	1118.5	1067.3	1016.1	997.2	1005.3
7.5°	1741.1	1649.5	1466.2	1274.8	1105.0	967.6	865.2	805.9	760.1	741.2	746.6
10°	1832.7	1692.6	1417.7	1134.7	916.4	770.8	684.6	646.9	619.9	609.1	611.8
12.5°	1943.2	1754.6	1355.7	994.5	754.7	628.0	587.6	579.5	574.1	568.7	571.4
15°	2067.2	1808.5	1282.9	857.1	628.0	557.9	544.4	541.7	539.0	539.0	539.0
17.5°	2196.6	1857.0	1202.1	727.7	547.1	514.8	506.7	506.7	506.7	509.4	509.4
20°	2317.9	1894.7	1107.7	611.8	501.3	474.4	469.0	469.0	471.7	474.4	474.4
22.5°	2436.5	1910.9	997.2	531.0	463.6	439.3	431.2	431.2	431.2	433.9	433.9
25°	2538.9	1910.9	886.7	479.7	431.2	407.0	396.2	393.5	396.2	396.2	396.2
27.5°	2625.1	1902.8	778.9	444.7	398.9	374.6	363.9	361.2	366.5	369.2	369.2
30°	2716.8	1892.0	692.7	412.4	371.9	347.7	336.9	336.9	345.0	355.8	355.8
32.5°	2805.7	1900.1	625.3	385.4	345.0	326.1	315.3	318.0	334.2	350.4	350.4
35°	2900.0	1916.3	584.9	366.5	326.1	307.3	299.2	307.3	323.4	339.6	339.6
37.5°	2994.4	1935.2	560.6	350.4	309.9	291.1	285.7	296.5	315.3	331.5	334.2
40°	3094.1	1951.3	533.7	334.2	299.2	277.6	274.9	285.7	309.9	326.1	328.8
42.5°	3218.1	1983.7	501.3	320.7	288.4	261.4	264.1	272.2	296.5	320.7	323.4
45°	3460.7	2086.1	469.0	307.3	274.9	253.4	248.0	253.4	280.3	307.3	312.6
47.5°	3916.1	2317.9	433.9	293.8	261.4	248.0	226.4	231.8	256.0	285.7	288.4
50°	4789.4	2811.1	415.1	280.3	250.7	229.1	204.8	204.8	223.7	250.7	250.7
52.5°	6150.5	3695.1	425.8	269.5	237.2	210.2	186.0	183.3	194.1	212.9	212.9
55°	7619.4	4665.4	466.3	258.7	221.0	199.4	172.5	159.0	167.1	177.9	177.9
57.5°	8783.7	5153.2	576.8	253.4	202.1	191.4	156.3	137.5	145.5	156.3	156.3
60°	9295.8	4867.6	700.8	258.7	188.7	177.9	140.2	121.3	134.8	145.5	148.2
62.5°	8880.7	4007.8	752.0	245.3	169.8	159.0	137.5	113.2	129.4	137.5	140.2
65°	7983.2	3045.6	587.6	212.9	156.3	137.5	124.0	107.8	121.3	129.4	129.4
66°	7557.4	2654.8	501.3	196.8	150.9	129.4	118.6	107.8	118.6	124.0	126.7
67.5°	6897.1	2094.2	371.9	172.5	140.2	118.6	110.5	102.4	113.2	118.6	118.6
70°	5393.1	1247.9	223.7	134.8	121.3	105.1	99.7	94.3	102.4	105.1	105.1
72.5°	3377.1	592.9	142.8	99.7	102.4	99.7	83.6	88.9	91.6	94.3	94.3
75°	1636.0	234.5	97.0	72.8	83.6	94.3	67.4	78.2	80.9	86.2	83.6
77.5°	455.5	113.2	62.0	53.9	72.8	72.8	51.2	62.0	72.8	91.6	83.6
80°	132.1	72.8	40.4	40.4	51.2	51.2	35.0	43.1	48.5	53.9	56.6
82.5°	91.6	48.5	27.0	29.6	29.6	32.3	21.6	21.6	27.0	27.0	29.6
85°	72.8	21.6	16.2	18.9	13.5	16.2	10.8	10.8	13.5	10.8	10.8
87.5°	29.6	10.8	10.8	10.8	8.1	8.1	5.4	2.7	2.7	2.7	2.7
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)