

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: P1211156

Luminaire Tested: **ARCH4-190-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211156
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: ARCH4-190-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18111 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

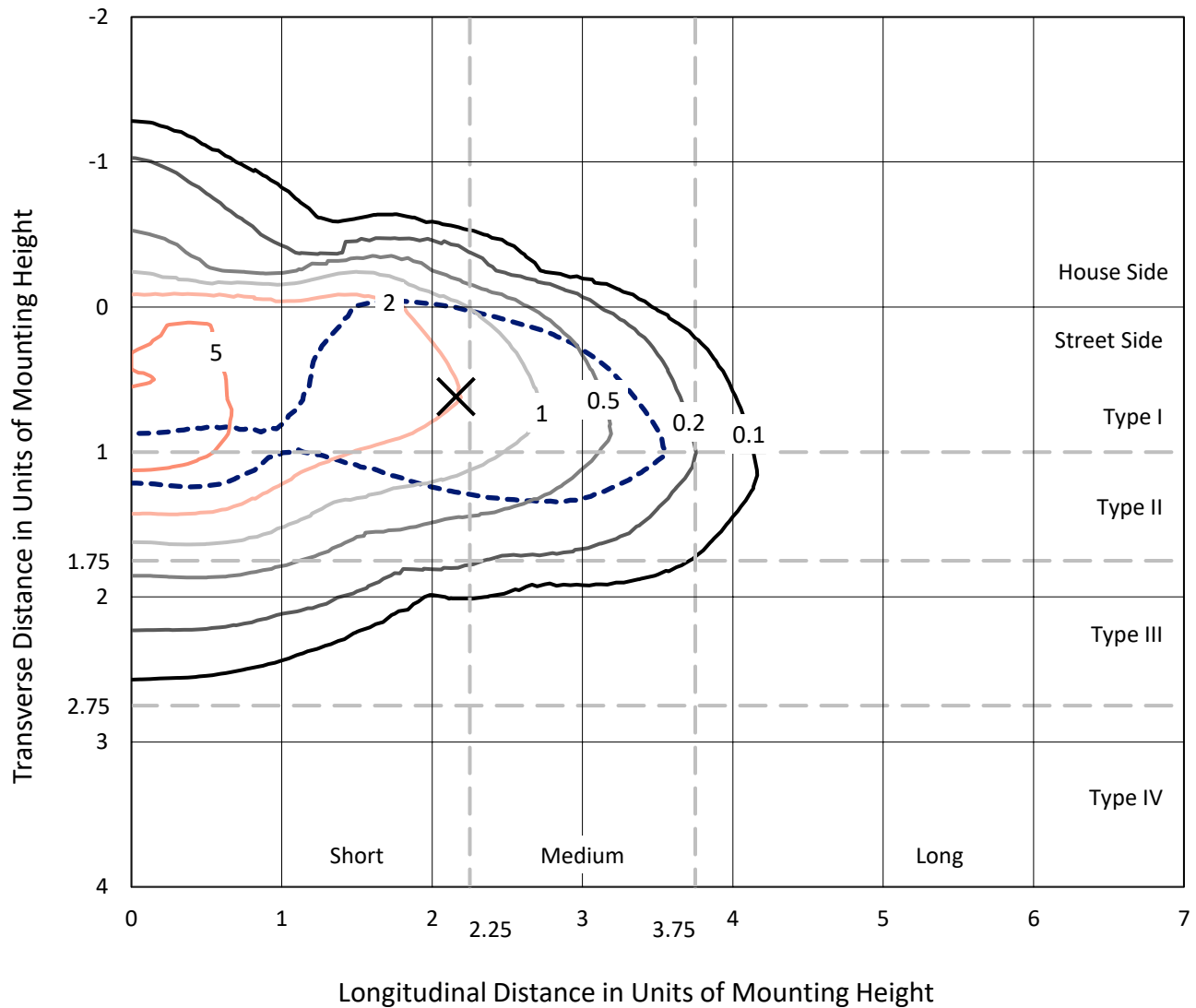
Input Watts (W): 190
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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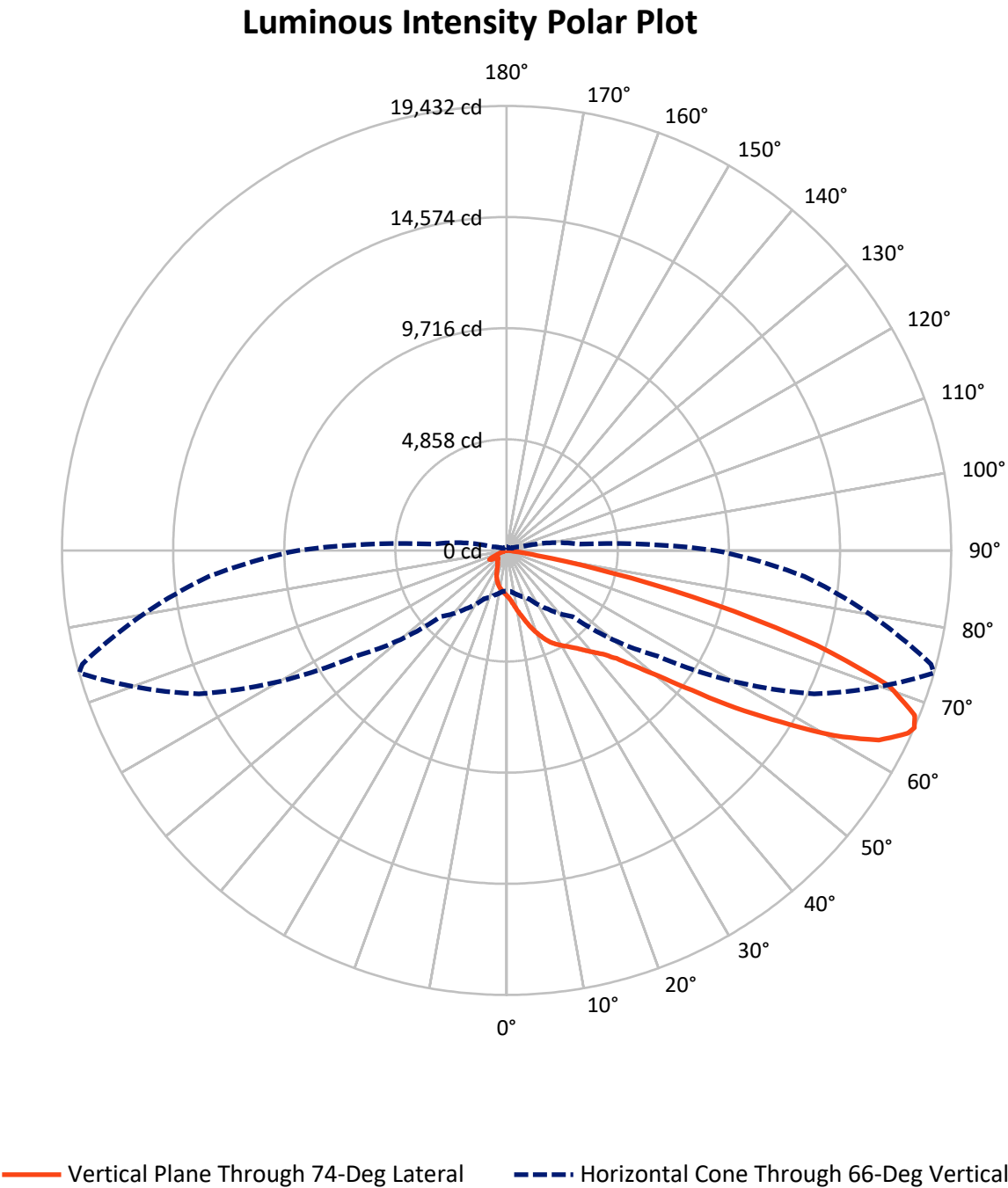
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1775.5	0.0	1775.5
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	16335.6	0.0	16335.6
	% Fixture	90.2	0.0	90.2
Total	Lumens	18111.0	0.0	18111.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.0	1.1
10°-20°	618.6	3.4
20°-30°	1180.6	6.5
30°-40°	2069.3	11.4
40°-50°	3548.3	19.6
50°-60°	4614.8	25.5
60°-70°	4177.5	23.1
70°-80°	1611.9	8.9
80°-90°	97.0	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°	18111.0	100.0
0°-180°	18111.0	100.0

Coefficient of Utilization



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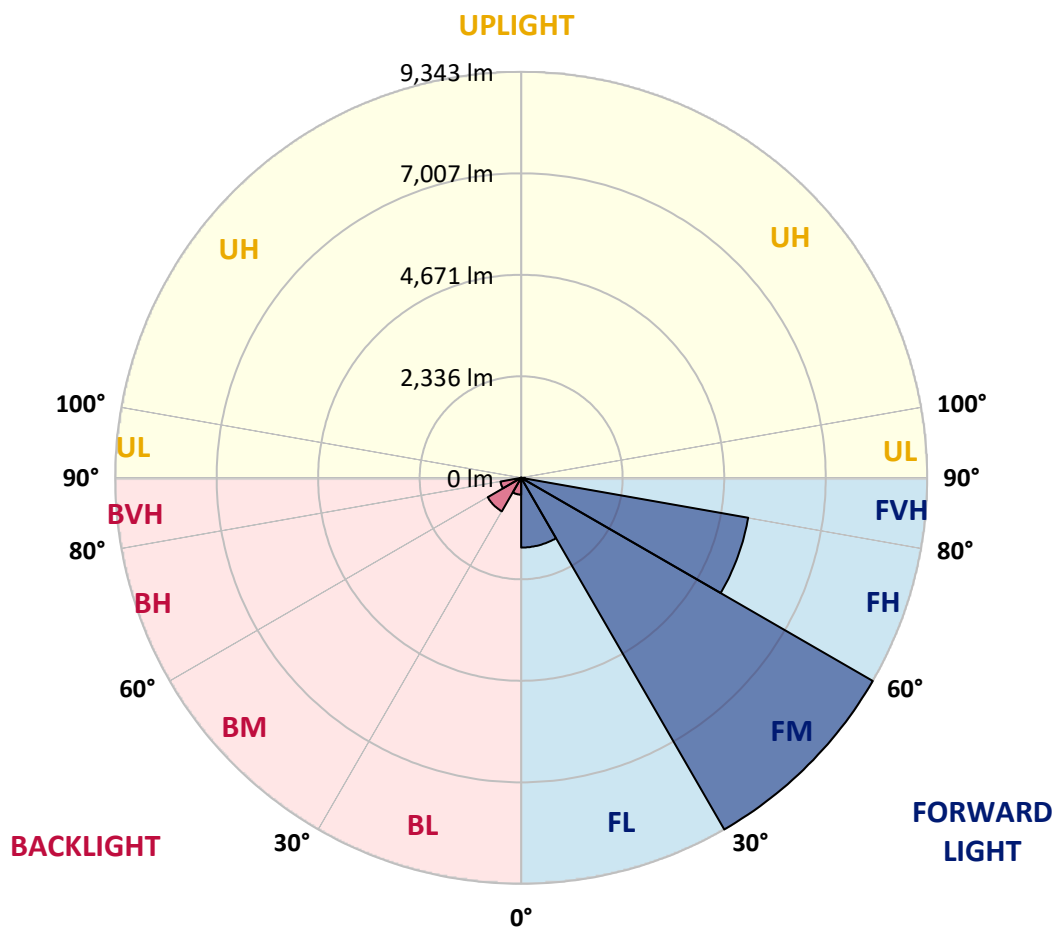
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1604.9	8.9			
FM	(30°-60°)	9342.6	51.6			
FH	(60°-80°)	5304.1	29.3			G3/7500
FVH	(80°-90°)	84.0	0.5			G1/100
BL	(0°-30°)	387.3	2.1	B1/500		
BM	(30°-60°)	889.8	4.9	B1/1000		
BH	(60°-80°)	485.4	2.7	B1/500		G1/500
BVH	(80°-90°)	13.0	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1977.0	1977.0	1977.0	1977.0	1977.0	1977.0	1977.0	1977.0	1977.0	1977.0	1977.0
2.5°	2373.7	2354.2	2318.4	2315.1	2285.9	2250.1	2188.3	2123.3	2077.8	2071.3	2016.0
5°	2841.9	2832.1	2796.4	2773.6	2718.3	2633.8	2490.7	2347.7	2227.3	2214.3	2090.8
7.5°	2965.5	2972.0	2978.5	3001.2	2981.7	2942.7	2835.4	2633.8	2445.2	2415.9	2201.3
10°	2985.0	2978.5	2978.5	3007.7	3063.0	3118.3	3105.3	2932.9	2689.1	2653.3	2354.2
12.5°	3196.3	3206.1	3183.3	3170.3	3160.6	3189.8	3287.4	3212.6	2945.9	2916.7	2539.5
15°	3469.5	3466.2	3433.7	3433.7	3404.4	3355.7	3417.4	3472.7	3254.9	3219.1	2750.9
17.5°	3667.8	3680.8	3677.6	3697.1	3687.3	3622.3	3589.8	3703.6	3573.5	3528.0	2991.5
20°	3827.1	3862.9	3875.9	3937.7	3967.0	3921.4	3836.9	3908.4	3879.2	3836.9	3235.3
22.5°	3996.2	4025.5	4048.2	4155.5	4236.8	4227.1	4119.8	4103.5	4175.1	4136.0	3476.0
25°	4165.3	4178.3	4246.6	4376.7	4506.7	4539.2	4428.7	4301.9	4441.7	4405.9	3690.6
27.5°	4350.6	4357.1	4438.4	4597.8	4779.9	4848.1	4760.3	4526.2	4646.5	4646.5	3885.7
30°	4688.8	4753.8	4786.4	4929.4	5088.8	5183.0	5079.0	4763.6	4828.6	4857.9	4090.5
32.5°	5417.2	5426.9	5417.2	5478.9	5511.5	5566.7	5446.4	5030.2	5014.0	5046.5	4292.1
35°	6529.2	6490.2	6386.1	6295.1	6106.5	6002.5	5846.4	5371.6	5241.6	5287.1	4490.5
37.5°	7878.6	7823.3	7586.0	7306.3	6903.1	6486.9	6291.8	5787.8	5531.0	5589.5	4705.1
40°	9166.3	9130.5	8847.6	8502.9	7813.6	7101.5	6688.5	6139.0	5852.9	5875.6	4922.9
42.5°	10226.3	10219.8	9982.4	9621.5	8737.0	7764.8	7156.8	6483.7	6191.0	6226.8	5150.5
45°	11029.4	10967.6	10792.1	10531.9	9631.2	8454.2	7722.5	7007.2	6734.1	6776.3	5492.0
47.5°	11029.4	11039.2	11153.0	11127.0	10255.5	9101.2	8340.4	7667.3	7537.2	7576.2	6054.5
50°	10132.0	10223.0	10730.3	11156.2	10580.7	9605.2	9006.9	8493.2	8626.5	8685.0	7036.5
52.5°	8356.6	8509.4	9390.6	10362.8	10340.1	9858.8	9696.3	9543.4	10141.7	10245.8	8486.7
55°	6350.4	6451.2	7599.0	8876.9	9293.1	9650.7	10297.8	10876.6	12148.0	12125.2	9959.6
57.5°	4744.1	4838.4	5826.9	7244.6	7794.1	8750.1	10606.7	12401.6	14138.0	14225.7	11341.6
60°	3489.0	3560.5	4402.7	5566.7	6360.1	7371.4	10483.2	13903.8	16430.3	16329.5	12560.9
62.5°	2581.8	2620.8	3228.8	3986.5	5040.0	6005.7	9706.0	14931.3	18261.0	18056.1	13240.5
65°	1996.5	2009.5	2324.9	2728.1	3664.6	4669.3	8548.5	15087.4	19272.2	19054.4	13227.5
66°	1778.6	1788.4	2019.2	2331.4	3118.3	4087.3	8041.2	14837.0	19431.6	19200.7	13064.9
67.5°	1492.5	1486.0	1622.5	1827.4	2341.2	3154.1	7140.5	14105.4	19243.0	19125.9	12544.7
70°	1105.5	1108.8	1177.1	1225.9	1368.9	1746.1	5157.0	12235.8	17734.2	17727.7	11117.2
72.5°	819.4	829.2	881.2	890.9	855.2	946.2	2972.0	9732.0	14186.7	14190.0	8311.1
75°	614.6	630.8	647.1	653.6	621.1	598.3	1342.9	6548.7	9332.1	9263.8	4705.1
77.5°	468.2	474.7	487.7	478.0	471.5	413.0	559.3	3193.1	4607.5	4197.8	1525.0
80°	341.4	341.4	354.4	341.4	338.2	295.9	305.7	1024.3	1352.7	1125.1	328.4
82.5°	214.6	211.4	221.1	217.9	211.4	188.6	178.8	286.1	312.2	279.6	159.3
85°	120.3	117.1	113.8	110.6	100.8	84.5	97.5	107.3	143.1	146.3	113.8
87.5°	42.3	42.3	39.0	35.8	29.3	29.3	35.8	35.8	52.0	52.0	58.5
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°	1977.0	1977.0	1977.0	1977.0	1977.0	1977.0	1977.0	1977.0	1977.0	1977.0	1977.0
2.5°	1990.0	1954.2	1902.2	1833.9	1785.1	1736.4	1684.3	1655.1	1612.8	1603.0	1616.0
5°	2025.7	1960.7	1830.7	1687.6	1564.0	1453.5	1349.4	1287.6	1225.9	1203.1	1212.8
7.5°	2100.5	1990.0	1768.9	1538.0	1333.2	1167.3	1043.8	972.2	917.0	894.2	900.7
10°	2211.1	2042.0	1710.3	1368.9	1105.5	930.0	825.9	780.4	747.9	734.9	738.1
12.5°	2344.4	2116.8	1635.6	1199.8	910.4	757.6	708.8	699.1	692.6	686.1	689.3
15°	2494.0	2181.8	1547.8	1034.0	757.6	673.1	656.8	653.6	650.3	650.3	650.3
17.5°	2650.1	2240.4	1450.2	877.9	660.1	621.1	611.3	611.3	611.3	614.6	614.6
20°	2796.4	2285.9	1336.4	738.1	604.8	572.3	565.8	565.8	569.0	572.3	572.3
22.5°	2939.4	2305.4	1203.1	640.6	559.3	530.0	520.3	520.3	520.3	523.5	523.5
25°	3063.0	2305.4	1069.8	578.8	520.3	491.0	478.0	474.7	478.0	478.0	478.0
27.5°	3167.1	2295.6	939.7	536.5	481.2	452.0	439.0	435.7	442.2	445.5	445.5
30°	3277.6	2282.6	835.7	497.5	448.7	419.5	406.4	406.4	416.2	429.2	429.2
32.5°	3384.9	2292.4	754.4	465.0	416.2	393.4	380.4	383.7	403.2	422.7	422.7
35°	3498.7	2311.9	705.6	442.2	393.4	370.7	360.9	370.7	390.2	409.7	409.7
37.5°	3612.5	2334.6	676.3	422.7	373.9	351.2	344.7	357.7	380.4	399.9	403.2
40°	3732.8	2354.2	643.8	403.2	360.9	334.9	331.7	344.7	373.9	393.4	396.7
42.5°	3882.4	2393.2	604.8	386.9	347.9	315.4	318.7	328.4	357.7	386.9	390.2
45°	4175.1	2516.7	565.8	370.7	331.7	305.7	299.1	305.7	338.2	370.7	377.2
47.5°	4724.6	2796.4	523.5	354.4	315.4	299.1	273.1	279.6	308.9	344.7	347.9
50°	5778.1	3391.4	500.7	338.2	302.4	276.4	247.1	247.1	269.9	302.4	302.4
52.5°	7420.1	4457.9	513.8	325.2	286.1	253.6	224.4	221.1	234.1	256.9	256.9
55°	9192.3	5628.5	562.5	312.2	266.6	240.6	208.1	191.8	201.6	214.6	214.6
57.5°	10597.0	6217.1	695.8	305.7	243.9	230.9	188.6	165.8	175.6	188.6	188.6
60°	11214.8	5872.4	845.4	312.2	227.6	214.6	169.1	146.3	162.6	175.6	178.8
62.5°	10714.0	4835.1	907.2	295.9	204.9	191.8	165.8	136.6	156.1	165.8	169.1
65°	9631.2	3674.3	708.8	256.9	188.6	165.8	149.6	130.1	146.3	156.1	156.1
66°	9117.5	3202.8	604.8	237.4	182.1	156.1	143.1	130.1	143.1	149.6	152.8
67.5°	8320.8	2526.5	448.7	208.1	169.1	143.1	133.3	123.6	136.6	143.1	143.1
70°	6506.4	1505.5	269.9	162.6	146.3	126.8	120.3	113.8	123.6	126.8	126.8
72.5°	4074.3	715.4	172.3	120.3	123.6	120.3	100.8	107.3	110.6	113.8	113.8
75°	1973.7	282.9	117.1	87.8	100.8	113.8	81.3	94.3	97.5	104.1	100.8
77.5°	549.5	136.6	74.8	65.0	87.8	87.8	61.8	74.8	87.8	110.6	100.8
80°	159.3	87.8	48.8	48.8	61.8	61.8	42.3	52.0	58.5	65.0	68.3
82.5°	110.6	58.5	32.5	35.8	35.8	39.0	26.0	26.0	32.5	32.5	35.8
85°	87.8	26.0	19.5	22.8	16.3	19.5	13.0	13.0	16.3	13.0	13.0
87.5°	35.8	13.0	13.0	13.0	9.8	9.8	6.5	3.3	3.3	3.3	3.3
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)