

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: P1210664

Luminaire Tested: **ARCH3-190-750-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210664
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: ARCH3-190-750-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 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: 18015 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

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



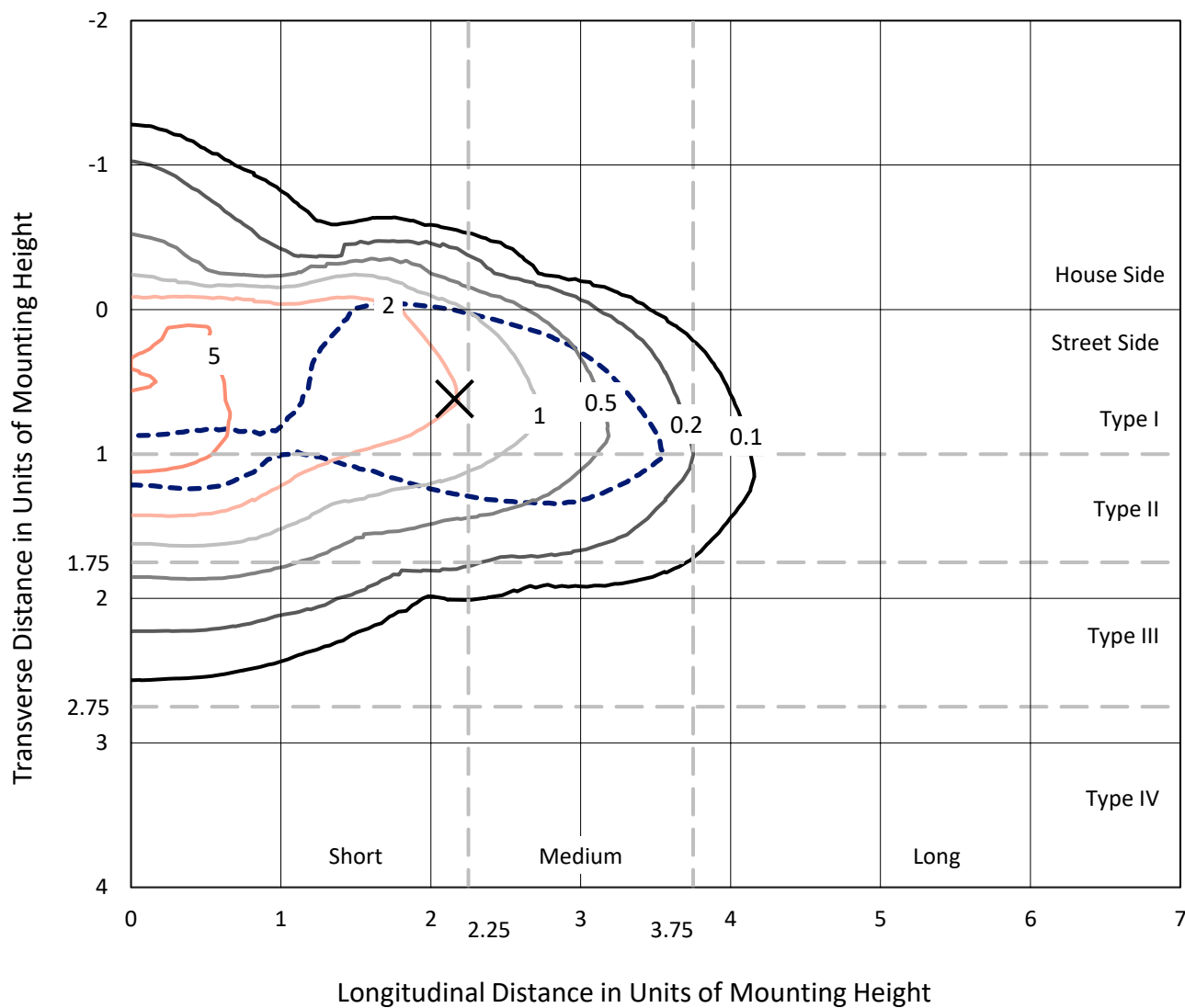
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Iso-Footcandle Lines of Horizontal Illumination

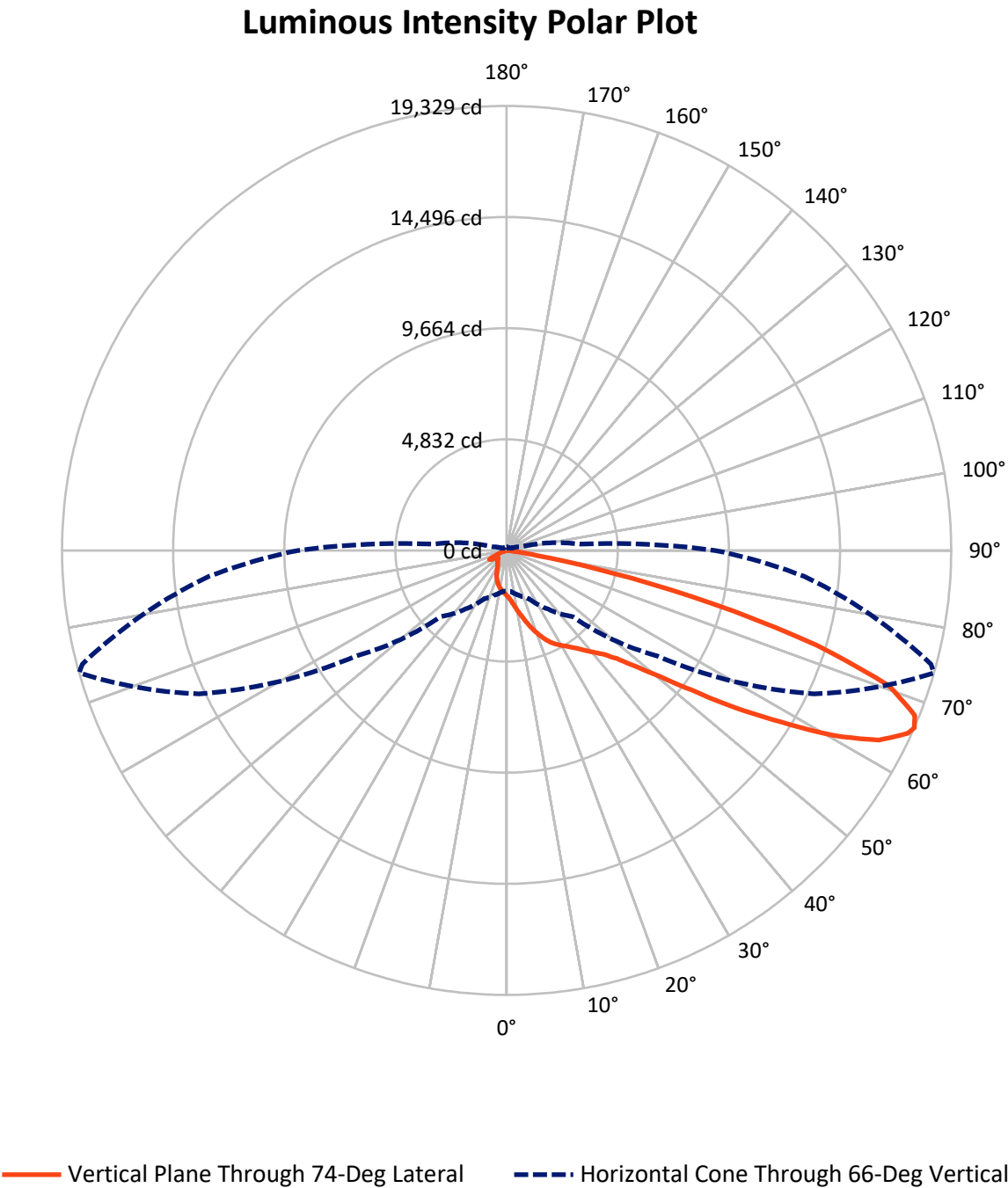
✕ Max cd

--- 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1766.0	0.0	1766.0
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	16249.0	0.0	16249.0
	% Fixture	90.2	0.0	90.2
Total	Lumens	18015.0	0.0	18015.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.9	1.1
10°-20°	615.3	3.4
20°-30°	1174.3	6.5
30°-40°	2058.3	11.4
40°-50°	3529.5	19.6
50°-60°	4590.3	25.5
60°-70°	4155.4	23.1
70°-80°	1603.4	8.9
80°-90°	96.5	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°	18015.0	100.0
0°-180°	18015.0	100.0

Coefficient of Utilization



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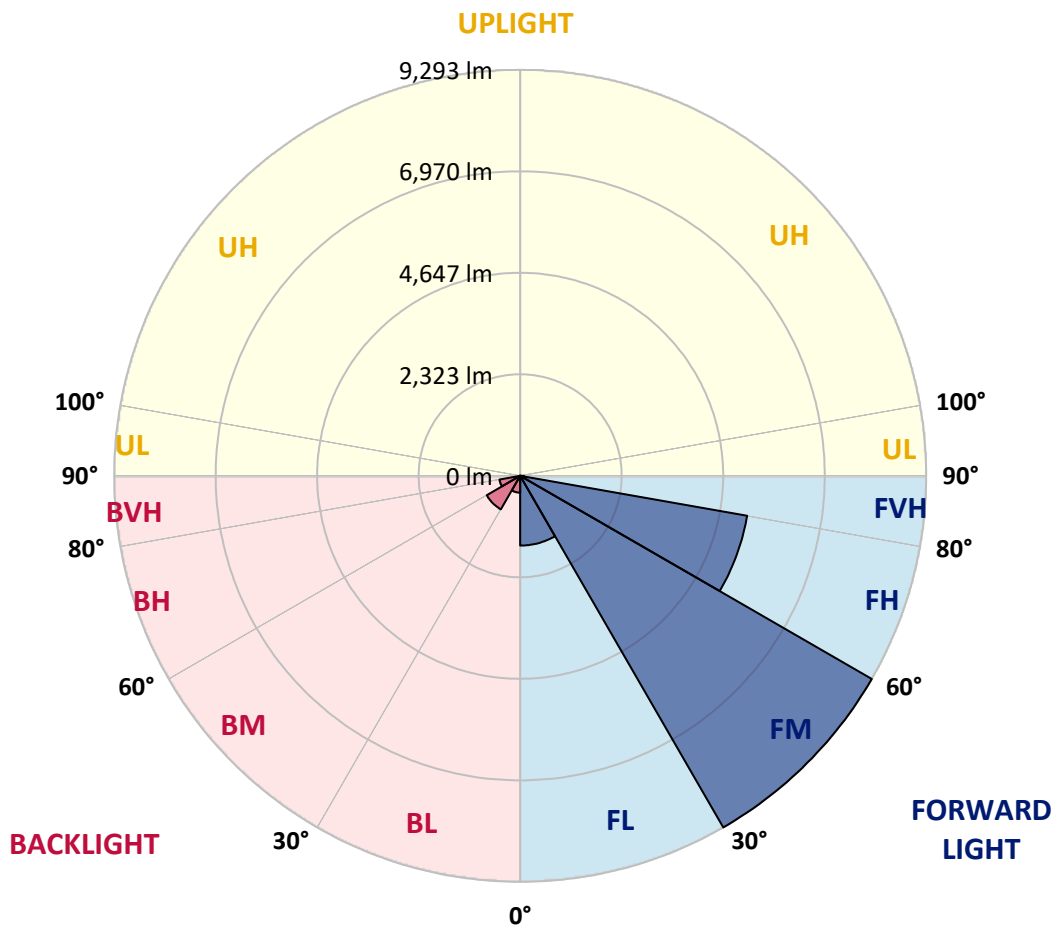
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1596.4	8.9			
FM	(30°-60°)	9293.0	51.6			
FH	(60°-80°)	5276.0	29.3			G3/7500
FVH	(80°-90°)	83.6	0.5			G1/100
BL	(0°-30°)	385.2	2.1	B1/500		
BM	(30°-60°)	885.1	4.9	B1/1000		
BH	(60°-80°)	482.8	2.7	B1/500		G1/500
BVH	(80°-90°)	12.9	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°	1966.5	1966.5	1966.5	1966.5	1966.5	1966.5	1966.5	1966.5	1966.5	1966.5	1966.5
2.5°	2361.1	2341.7	2306.1	2302.9	2273.8	2238.2	2176.7	2112.0	2066.8	2060.3	2005.3
5°	2826.8	2817.1	2781.6	2758.9	2703.9	2619.8	2477.5	2335.2	2215.5	2202.6	2079.7
7.5°	2949.7	2956.2	2962.7	2985.3	2965.9	2927.1	2820.4	2619.8	2432.2	2403.1	2189.7
10°	2969.1	2962.7	2962.7	2991.8	3046.8	3101.8	3088.8	2917.4	2674.8	2639.2	2341.7
12.5°	3179.4	3189.1	3166.4	3153.5	3143.8	3172.9	3269.9	3195.6	2930.3	2901.2	2526.0
15°	3451.1	3447.8	3415.5	3415.5	3386.4	3337.9	3399.3	3454.3	3237.6	3202.0	2736.3
17.5°	3648.4	3661.3	3658.1	3677.5	3667.8	3603.1	3570.7	3683.9	3554.6	3509.3	2975.6
20°	3806.8	3842.4	3855.4	3916.8	3945.9	3900.6	3816.5	3887.7	3858.6	3816.5	3218.2
22.5°	3975.0	4004.1	4026.8	4133.5	4214.4	4204.7	4097.9	4081.8	4152.9	4114.1	3457.5
25°	4143.2	4156.2	4224.1	4353.5	4482.8	4515.2	4405.2	4279.1	4418.1	4382.6	3671.0
27.5°	4327.6	4334.0	4414.9	4573.4	4754.5	4822.4	4735.1	4502.2	4621.9	4621.9	3865.1
30°	4664.0	4728.6	4761.0	4903.3	5061.8	5155.6	5052.1	4738.3	4803.0	4832.1	4068.8
32.5°	5388.4	5398.2	5388.4	5449.9	5482.2	5537.2	5417.6	5003.6	4987.4	5019.7	4269.4
35°	6494.6	6455.8	6352.3	6261.7	6074.1	5970.6	5815.4	5343.2	5213.8	5259.1	4466.7
37.5°	7836.9	7781.9	7545.8	7267.6	6866.6	6452.6	6258.5	5757.2	5501.7	5559.9	4680.1
40°	9117.7	9082.1	8800.7	8457.9	7772.2	7063.8	6653.1	6106.5	5821.9	5844.5	4896.8
42.5°	10172.1	10165.6	9929.5	9570.5	8690.7	7723.7	7118.8	6449.3	6158.2	6193.8	5123.2
45°	10971.0	10909.5	10734.9	10476.1	9580.2	8409.3	7681.6	6970.1	6698.4	6740.4	5462.8
47.5°	10971.0	10980.7	11093.9	11068.0	10201.2	9053.0	8296.1	7626.6	7497.3	7536.1	6022.4
50°	10078.3	10168.8	10673.4	11097.1	10524.6	9554.3	8959.2	8448.2	8580.8	8639.0	6999.2
52.5°	8312.3	8464.3	9340.8	10307.9	10285.3	9806.6	9644.9	9492.9	10088.0	10191.5	8441.7
55°	6316.7	6417.0	7558.7	8829.8	9243.8	9599.6	10243.2	10818.9	12083.6	12060.9	9906.9
57.5°	4718.9	4812.7	5796.0	7206.2	7752.8	8703.7	10550.5	12335.9	14063.0	14150.3	11281.5
60°	3470.5	3541.6	4379.3	5537.2	6326.4	7332.3	10427.6	13830.1	16343.2	16243.0	12494.3
62.5°	2568.1	2606.9	3211.7	3965.3	5013.3	5973.9	9654.6	14852.2	18164.2	17960.4	13170.3
65°	1985.9	1998.8	2312.6	2713.6	3645.1	4644.5	8503.1	15007.4	19170.1	18953.4	13157.4
66°	1769.2	1778.9	2008.5	2319.0	3101.8	4065.6	7998.6	14758.4	19328.6	19098.9	12995.7
67.5°	1484.6	1478.1	1613.9	1817.7	2328.7	3137.3	7102.7	14030.7	19141.0	19024.5	12478.2
70°	1099.7	1102.9	1170.8	1219.4	1361.7	1736.9	5129.7	12170.9	17640.2	17633.7	11058.3
72.5°	815.1	824.8	876.5	886.2	850.6	941.2	2956.2	9680.4	14111.5	14114.8	8267.0
75°	611.3	627.5	643.6	650.1	617.8	595.1	1335.8	6514.0	9282.6	9214.7	4680.1
77.5°	465.7	472.2	485.2	475.5	469.0	410.8	556.3	3176.1	4583.1	4175.6	1516.9
80°	339.6	339.6	352.5	339.6	336.4	294.3	304.0	1018.8	1345.5	1119.1	326.7
82.5°	213.5	210.2	219.9	216.7	210.2	187.6	177.9	284.6	310.5	278.2	158.5
85°	119.7	116.4	113.2	110.0	100.3	84.1	97.0	106.7	142.3	145.5	113.2
87.5°	42.0	42.0	38.8	35.6	29.1	29.1	35.6	35.6	51.7	51.7	58.2
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°	1966.5	1966.5	1966.5	1966.5	1966.5	1966.5	1966.5	1966.5	1966.5	1966.5	1966.5
2.5°	1979.4	1943.9	1892.1	1824.2	1775.7	1727.2	1675.4	1646.3	1604.2	1594.5	1607.5
5°	2015.0	1950.3	1820.9	1678.6	1555.7	1445.8	1342.3	1280.8	1219.4	1196.7	1206.4
7.5°	2089.4	1979.4	1759.5	1529.9	1326.1	1161.1	1038.2	967.1	912.1	889.4	895.9
10°	2199.4	2031.2	1701.3	1361.7	1099.7	925.0	821.5	776.2	743.9	731.0	734.2
12.5°	2332.0	2105.6	1626.9	1193.5	905.6	753.6	705.1	695.4	688.9	682.5	685.7
15°	2480.8	2170.3	1539.6	1028.5	753.6	669.5	653.3	650.1	646.9	646.9	646.9
17.5°	2636.0	2228.5	1442.5	873.3	656.6	617.8	608.1	608.1	608.1	611.3	611.3
20°	2781.6	2273.8	1329.3	734.2	601.6	569.2	562.8	562.8	566.0	569.2	569.2
22.5°	2923.9	2293.2	1196.7	637.2	556.3	527.2	517.5	517.5	517.5	520.7	520.7
25°	3046.8	2293.2	1064.1	575.7	517.5	488.4	475.5	472.2	475.5	475.5	475.5
27.5°	3150.3	2283.5	934.7	533.7	478.7	449.6	436.6	433.4	439.9	443.1	443.1
30°	3260.2	2270.5	831.2	494.9	446.3	417.2	404.3	404.3	414.0	426.9	426.9
32.5°	3367.0	2280.2	750.4	462.5	414.0	391.4	378.4	381.7	401.1	420.5	420.5
35°	3480.2	2299.6	701.9	439.9	391.4	368.7	359.0	368.7	388.1	407.5	407.5
37.5°	3593.4	2322.3	672.7	420.5	372.0	349.3	342.8	355.8	378.4	397.8	401.1
40°	3713.0	2341.7	640.4	401.1	359.0	333.1	329.9	342.8	372.0	391.4	394.6
42.5°	3861.8	2380.5	601.6	384.9	346.1	313.7	317.0	326.7	355.8	384.9	388.1
45°	4152.9	2503.4	562.8	368.7	329.9	304.0	297.6	304.0	336.4	368.7	375.2
47.5°	4699.5	2781.6	520.7	352.5	313.7	297.6	271.7	278.2	307.3	342.8	346.1
50°	5747.5	3373.4	498.1	336.4	300.8	274.9	245.8	245.8	268.5	300.8	300.8
52.5°	7380.8	4434.3	511.0	323.4	284.6	252.3	223.2	219.9	232.9	255.5	255.5
55°	9143.5	5598.7	559.5	310.5	265.2	239.3	207.0	190.8	200.5	213.5	213.5
57.5°	10540.8	6184.1	692.2	304.0	242.6	229.6	187.6	165.0	174.7	187.6	187.6
60°	11155.3	5841.3	840.9	310.5	226.4	213.5	168.2	145.5	161.7	174.7	177.9
62.5°	10657.2	4809.5	902.4	294.3	203.8	190.8	165.0	135.8	155.2	165.0	168.2
65°	9580.2	3654.8	705.1	255.5	187.6	165.0	148.8	129.4	145.5	155.2	155.2
66°	9069.2	3185.8	601.6	236.1	181.1	155.2	142.3	129.4	142.3	148.8	152.0
67.5°	8276.7	2513.1	446.3	207.0	168.2	142.3	132.6	122.9	135.8	142.3	142.3
70°	6472.0	1497.5	268.5	161.7	145.5	126.1	119.7	113.2	122.9	126.1	126.1
72.5°	4052.7	711.6	171.4	119.7	122.9	119.7	100.3	106.7	110.0	113.2	113.2
75°	1963.3	281.4	116.4	87.3	100.3	113.2	80.9	93.8	97.0	103.5	100.3
77.5°	546.6	135.8	74.4	64.7	87.3	87.3	61.5	74.4	87.3	110.0	100.3
80°	158.5	87.3	48.5	48.5	61.5	61.5	42.0	51.7	58.2	64.7	67.9
82.5°	110.0	58.2	32.3	35.6	35.6	38.8	25.9	25.9	32.3	32.3	35.6
85°	87.3	25.9	19.4	22.6	16.2	19.4	12.9	12.9	16.2	12.9	12.9
87.5°	35.6	12.9	12.9	12.9	9.7	9.7	6.5	3.2	3.2	3.2	3.2
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)