

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: P1211112

Luminaire Tested: **ARCH4-170-750-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211112
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: ARCH4-170-750-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1380mA 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: 19889 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

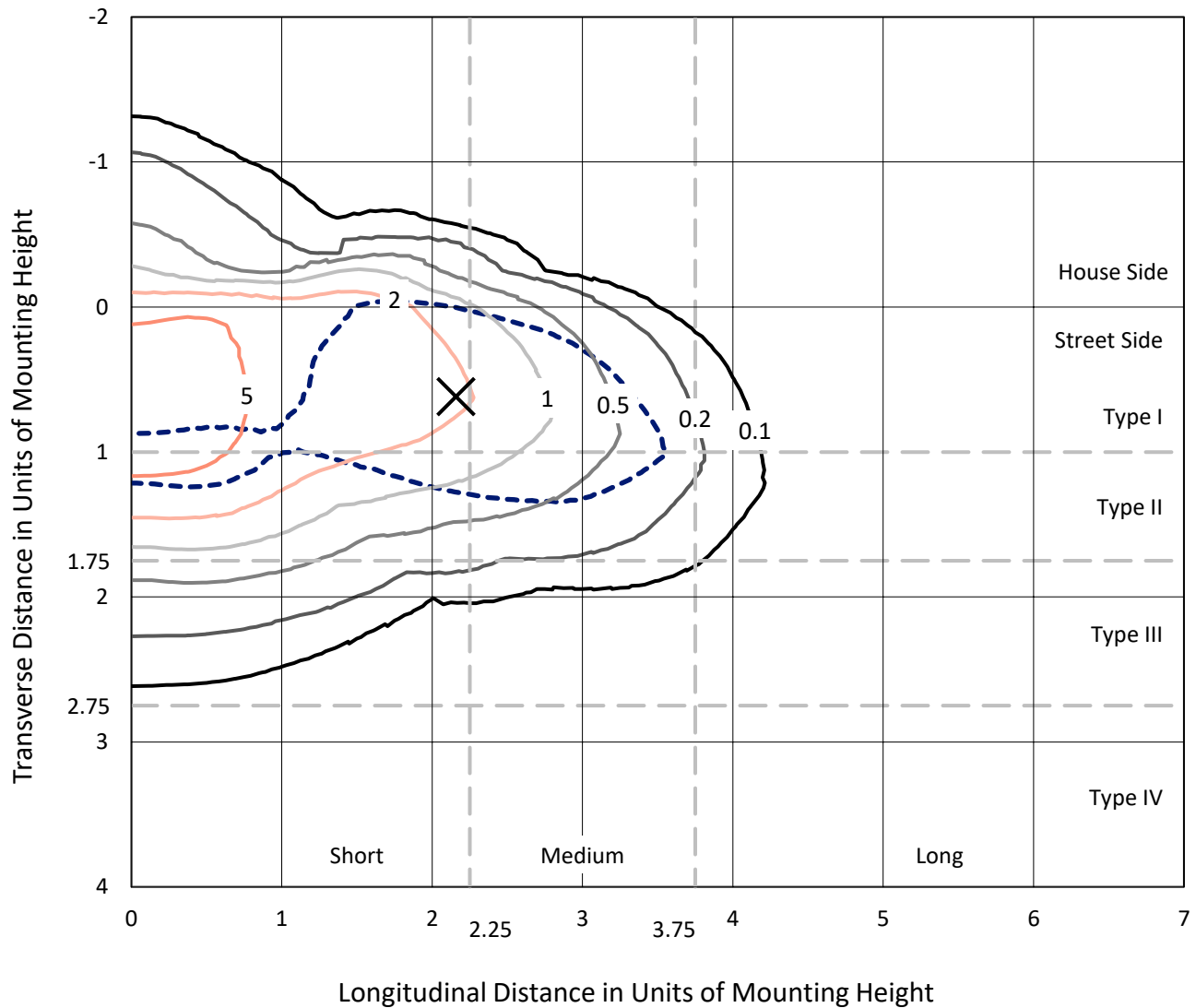
Input Watts (W): 169.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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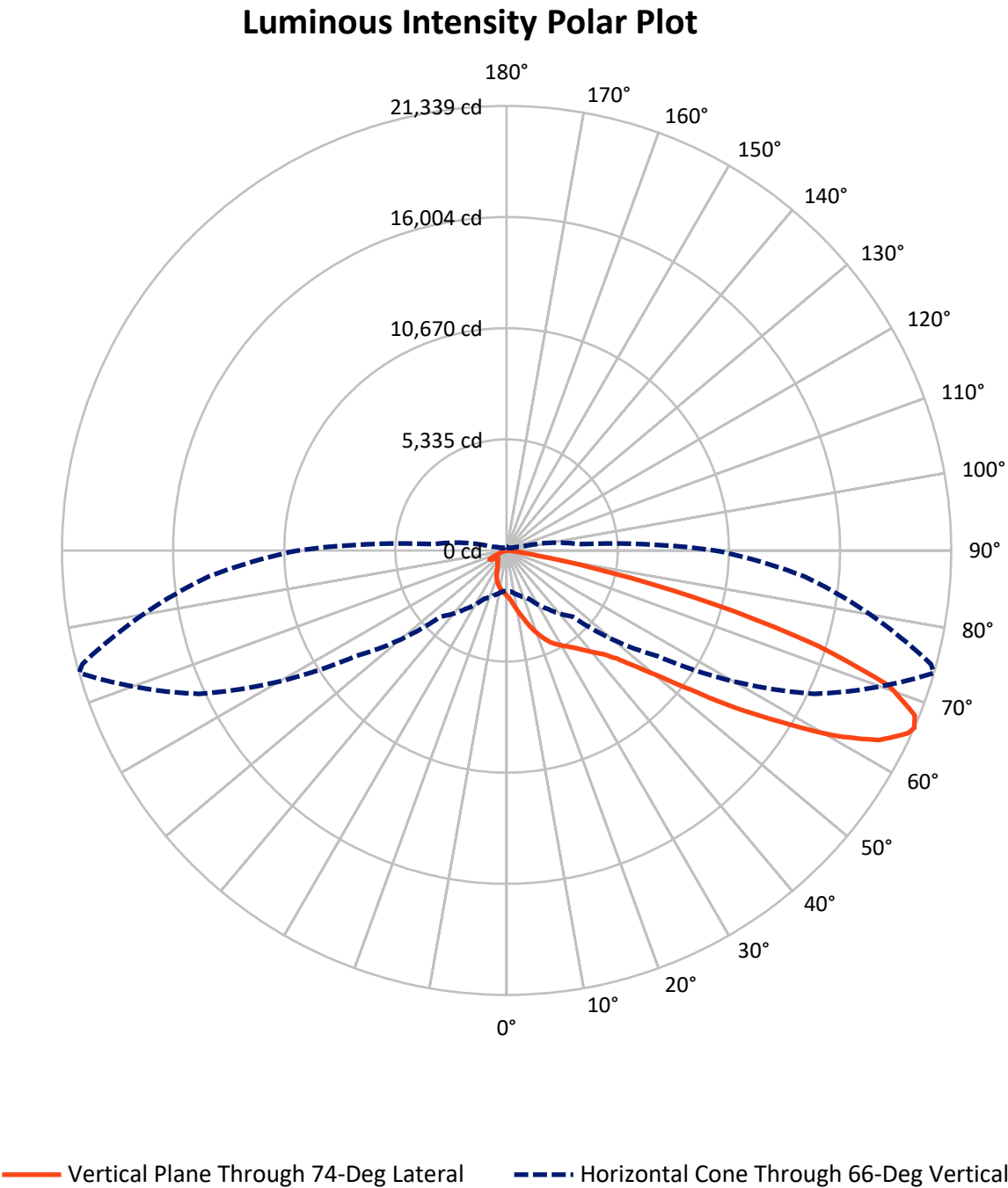
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1949.8	0.0	1949.8
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	17939.2	0.0	17939.2
	% Fixture	90.2	0.0	90.2
Total	Lumens	19889.0	0.0	19889.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.9	1.1
10°-20°	679.3	3.4
20°-30°	1296.5	6.5
30°-40°	2272.4	11.4
40°-50°	3896.6	19.6
50°-60°	5067.9	25.5
60°-70°	4587.7	23.1
70°-80°	1770.2	8.9
80°-90°	106.5	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°	19889.0	100.0
0°-180°	19889.0	100.0

Coefficient of Utilization



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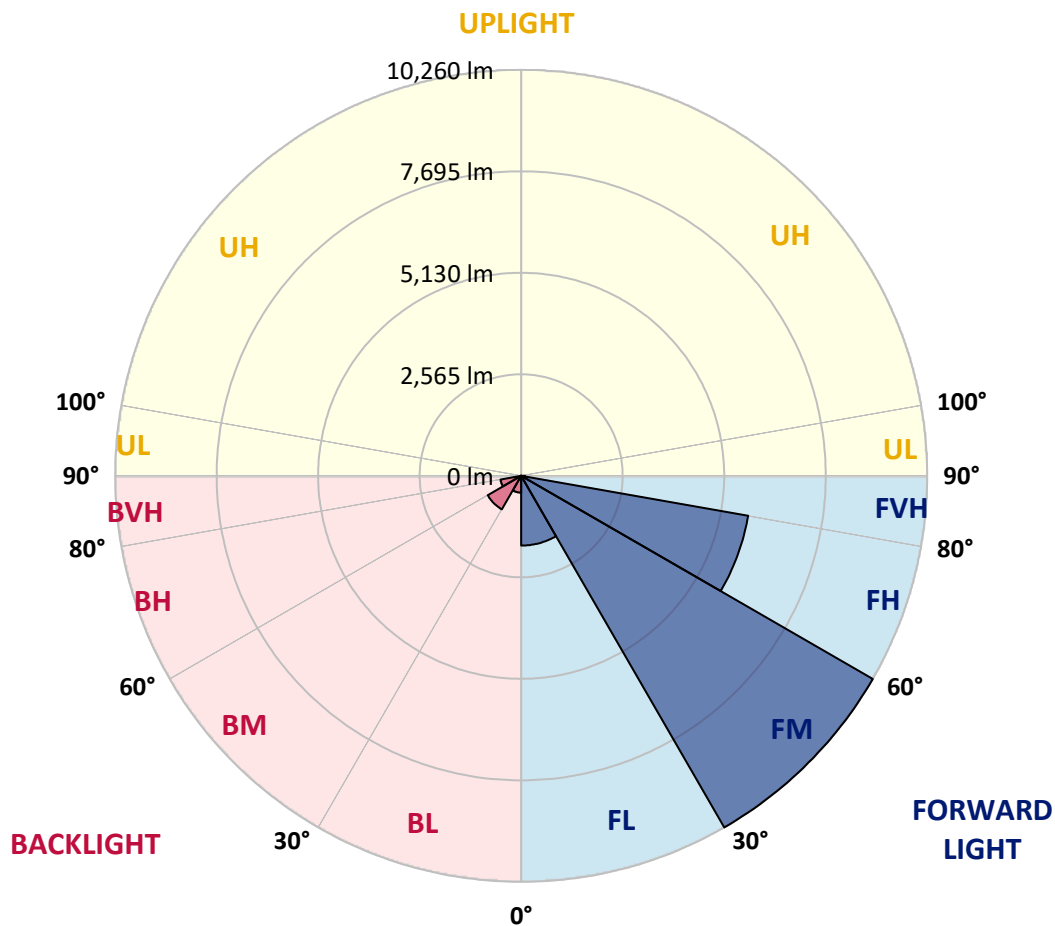
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1762.5	8.9			
FM	(30°-60°)	10259.7	51.6			
FH	(60°-80°)	5824.8	29.3			G3/7500
FVH	(80°-90°)	92.2	0.5			G1/100
BL	(0°-30°)	425.3	2.1	B1/500		
BM	(30°-60°)	977.2	4.9	B1/1000		
BH	(60°-80°)	533.0	2.7	B2/1000		G2/1000
BVH	(80°-90°)	14.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1
2.5°	2606.7	2585.3	2546.0	2542.4	2510.3	2471.0	2403.2	2331.7	2281.8	2274.6	2213.9
5°	3120.9	3110.2	3070.9	3045.9	2985.2	2892.4	2735.2	2578.1	2446.0	2431.7	2296.0
7.5°	3256.6	3263.7	3270.9	3295.9	3274.4	3231.6	3113.8	2892.4	2685.3	2653.1	2417.4
10°	3278.0	3270.9	3270.9	3303.0	3363.7	3424.4	3410.1	3220.9	2953.1	2913.8	2585.3
12.5°	3510.1	3520.8	3495.8	3481.5	3470.8	3503.0	3610.1	3528.0	3235.2	3203.0	2788.8
15°	3810.1	3806.5	3770.8	3770.8	3738.6	3685.1	3752.9	3813.6	3574.4	3535.1	3020.9
17.5°	4027.9	4042.2	4038.6	4060.0	4049.3	3977.9	3942.2	4067.2	3924.3	3874.3	3285.2
20°	4202.9	4242.1	4256.4	4324.3	4356.4	4306.4	4213.6	4292.1	4260.0	4213.6	3553.0
22.5°	4388.5	4420.7	4445.7	4563.5	4652.8	4642.1	4524.2	4506.4	4584.9	4542.1	3817.2
25°	4574.2	4588.5	4663.5	4806.3	4949.2	4984.9	4863.5	4724.2	4877.7	4838.5	4052.9
27.5°	4777.8	4784.9	4874.2	5049.1	5249.1	5324.1	5227.7	4970.6	5102.7	5102.7	4267.1
30°	5149.1	5220.5	5256.2	5413.4	5588.3	5691.9	5577.6	5231.2	5302.7	5334.8	4492.1
32.5°	5949.0	5959.7	5949.0	6016.8	6052.5	6113.2	5981.1	5524.1	5506.2	5541.9	4713.5
35°	7170.2	7127.3	7013.1	6913.1	6706.0	6591.7	6420.3	5899.0	5756.2	5806.1	4931.3
37.5°	8652.1	8591.4	8330.7	8023.6	7580.8	7123.8	6909.5	6356.1	6074.0	6138.2	5167.0
40°	10066.1	10026.9	9716.2	9337.7	8580.7	7798.7	7345.2	6741.7	6427.5	6452.5	5406.2
42.5°	11230.2	11223.1	10962.4	10566.0	9594.8	8527.1	7859.4	7120.2	6798.8	6838.1	5656.2
45°	12112.2	12044.4	11851.5	11565.9	10576.8	9284.1	8480.7	7695.1	7395.2	7441.6	6031.1
47.5°	12112.2	12122.9	12247.9	12219.3	11262.4	9994.7	9159.1	8420.0	8277.2	8320.0	6648.9
50°	11126.7	11226.6	11783.7	12251.5	11619.4	10548.2	9891.2	9327.0	9473.4	9537.7	7727.2
52.5°	9177.0	9344.8	10312.5	11380.2	11355.2	10826.7	10648.2	10480.3	11137.4	11251.6	9319.8
55°	6973.8	7084.5	8345.0	9748.3	10205.4	10598.2	11308.8	11944.4	13340.6	13315.6	10937.4
57.5°	5209.8	5313.4	6398.9	7955.8	8559.2	9609.1	11648.0	13619.1	15525.9	15622.3	12455.0
60°	3831.5	3910.0	4834.9	6113.2	6984.5	8095.0	11512.3	15268.8	18043.3	17932.6	13794.1
62.5°	2835.2	2878.1	3545.8	4377.8	5534.8	6595.3	10658.9	16397.2	20053.7	19828.7	14540.4
65°	2192.5	2206.8	2553.1	2995.9	4024.3	5127.7	9387.7	16568.6	21164.2	20925.0	14526.1
66°	1953.2	1963.9	2217.5	2560.3	3424.4	4488.5	8830.6	16293.6	21339.2	21085.7	14347.5
67.5°	1639.0	1631.9	1781.8	2006.8	2571.0	3463.7	7841.5	15490.2	21132.1	21003.5	13776.2
70°	1214.1	1217.6	1292.6	1346.2	1503.3	1917.5	5663.3	13437.0	19475.2	19468.1	12208.6
72.5°	899.8	910.6	967.7	978.4	939.1	1039.1	3263.7	10687.5	15579.5	15583.0	9127.0
75°	674.9	692.7	710.6	717.7	682.0	657.0	1474.7	7191.6	10248.2	10173.3	5167.0
77.5°	514.2	521.3	535.6	524.9	517.8	453.5	614.2	3506.5	5059.8	4609.9	1674.7
80°	374.9	374.9	389.2	374.9	371.4	324.9	335.7	1124.8	1485.5	1235.5	360.7
82.5°	235.7	232.1	242.8	239.2	232.1	207.1	196.4	314.2	342.8	307.1	175.0
85°	132.1	128.5	125.0	121.4	110.7	92.8	107.1	117.8	157.1	160.7	125.0
87.5°	46.4	46.4	42.8	39.3	32.1	32.1	39.3	39.3	57.1	57.1	64.3
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°	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1	2171.1
2.5°	2185.3	2146.1	2088.9	2013.9	1960.4	1906.8	1849.7	1817.5	1771.1	1760.4	1774.7
5°	2224.6	2153.2	2010.4	1853.3	1717.6	1596.2	1481.9	1414.0	1346.2	1321.2	1331.9
7.5°	2306.7	2185.3	1942.5	1689.0	1464.0	1281.9	1146.2	1067.7	1007.0	982.0	989.1
10°	2428.2	2242.5	1878.2	1503.3	1214.1	1021.3	907.0	857.0	821.3	807.0	810.6
12.5°	2574.6	2324.6	1796.1	1317.6	999.8	832.0	778.4	767.7	760.6	753.4	757.0
15°	2738.8	2396.0	1699.7	1135.5	832.0	739.2	721.3	717.7	714.2	714.2	714.2
17.5°	2910.2	2460.3	1592.6	964.1	724.9	682.0	671.3	671.3	671.3	674.9	674.9
20°	3070.9	2510.3	1467.6	810.6	664.2	628.5	621.3	621.3	624.9	628.5	628.5
22.5°	3228.0	2531.7	1321.2	703.5	614.2	582.0	571.3	571.3	571.3	574.9	574.9
25°	3363.7	2531.7	1174.8	635.6	571.3	539.2	524.9	521.3	524.9	524.9	524.9
27.5°	3478.0	2521.0	1032.0	589.2	528.5	496.3	482.1	478.5	485.6	489.2	489.2
30°	3599.4	2506.7	917.7	546.3	492.8	460.6	446.4	446.4	457.1	471.3	471.3
32.5°	3717.2	2517.4	828.4	510.6	457.1	432.1	417.8	421.4	442.8	464.2	464.2
35°	3842.2	2538.9	774.9	485.6	432.1	407.1	396.4	407.1	428.5	449.9	449.9
37.5°	3967.2	2563.8	742.7	464.2	410.6	385.6	378.5	392.8	417.8	439.2	442.8
40°	4099.3	2585.3	707.0	442.8	396.4	367.8	364.2	378.5	410.6	432.1	435.6
42.5°	4263.6	2628.1	664.2	424.9	382.1	346.4	349.9	360.7	392.8	424.9	428.5
45°	4584.9	2763.8	621.3	407.1	364.2	335.7	328.5	335.7	371.4	407.1	414.2
47.5°	5188.4	3070.9	574.9	389.2	346.4	328.5	299.9	307.1	339.2	378.5	382.1
50°	6345.3	3724.4	549.9	371.4	332.1	303.5	271.4	271.4	296.4	332.1	332.1
52.5°	8148.6	4895.6	564.2	357.1	314.2	278.5	246.4	242.8	257.1	282.1	282.1
55°	10094.7	6181.1	617.8	342.8	292.8	264.2	228.5	210.7	221.4	235.7	235.7
57.5°	11637.3	6827.4	764.2	335.7	267.8	253.5	207.1	182.1	192.8	207.1	207.1
60°	12315.7	6448.9	928.4	342.8	250.0	235.7	185.7	160.7	178.5	192.8	196.4
62.5°	11765.8	5309.8	996.3	324.9	225.0	210.7	182.1	150.0	171.4	182.1	185.7
65°	10576.8	4035.0	778.4	282.1	207.1	182.1	164.3	142.8	160.7	171.4	171.4
66°	10012.6	3517.3	664.2	260.7	200.0	171.4	157.1	142.8	157.1	164.3	167.8
67.5°	9137.7	2774.5	492.8	228.5	185.7	157.1	146.4	135.7	150.0	157.1	157.1
70°	7145.2	1653.3	296.4	178.5	160.7	139.3	132.1	125.0	135.7	139.3	139.3
72.5°	4474.2	785.6	189.3	132.1	135.7	132.1	110.7	117.8	121.4	125.0	125.0
75°	2167.5	310.7	128.5	96.4	110.7	125.0	89.3	103.6	107.1	114.3	110.7
77.5°	603.5	150.0	82.1	71.4	96.4	96.4	67.8	82.1	96.4	121.4	110.7
80°	175.0	96.4	53.6	53.6	67.8	67.8	46.4	57.1	64.3	71.4	75.0
82.5°	121.4	64.3	35.7	39.3	39.3	42.8	28.6	28.6	35.7	35.7	39.3
85°	96.4	28.6	21.4	25.0	17.9	21.4	14.3	14.3	17.9	14.3	14.3
87.5°	39.3	14.3	14.3	14.3	10.7	10.7	7.1	3.6	3.6	3.6	3.6
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)