

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: P1210648

Luminaire Tested: **ARCH3-190-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210648
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: ARCH3-190-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 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: 16556 lumens
Efficiency: N/A
Efficacy: 87.4 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

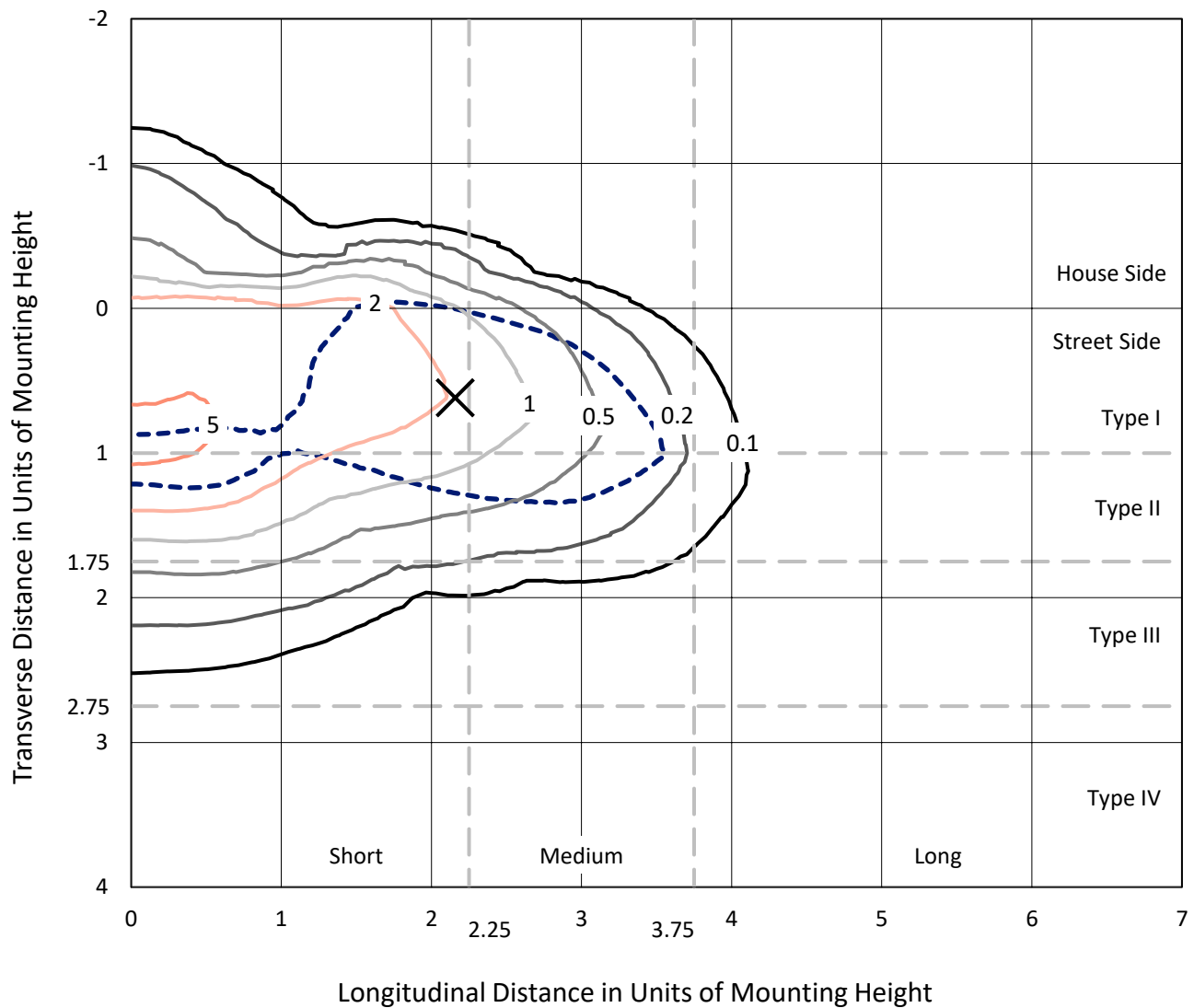


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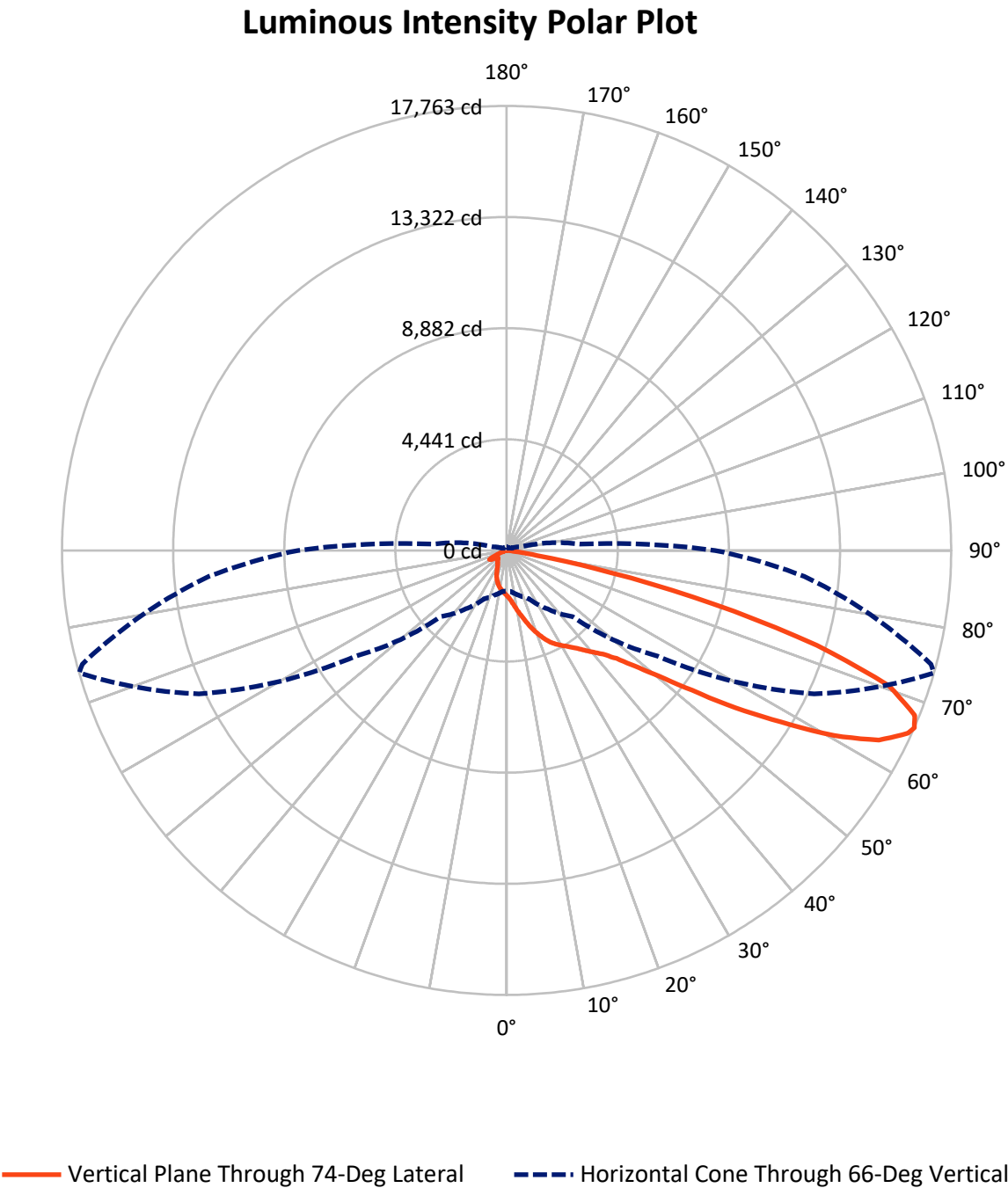
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1623.0	0.0	1623.0
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	14933.0	0.0	14933.0
	% Fixture	90.2	0.0	90.2
Total	Lumens	16556.0	0.0	16556.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.4	1.1
10°-20°	565.5	3.4
20°-30°	1079.2	6.5
30°-40°	1891.6	11.4
40°-50°	3243.6	19.6
50°-60°	4218.6	25.5
60°-70°	3818.9	23.1
70°-80°	1473.5	8.9
80°-90°	88.7	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°	16556.0	100.0
0°-180°	16556.0	100.0

Coefficient of Utilization



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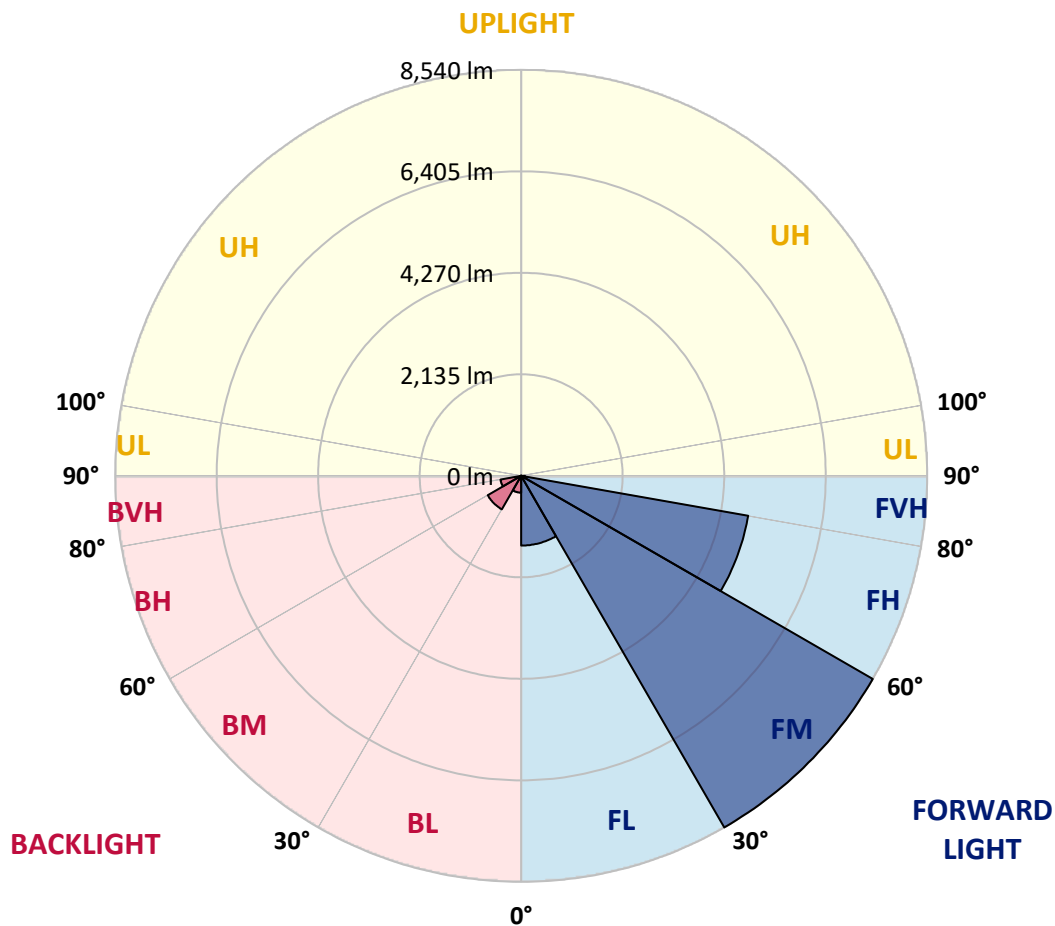
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1467.1	8.9			
FM	(30°-60°)	8540.4	51.6			
FH	(60°-80°)	4848.7	29.3			G2/5000
FVH	(80°-90°)	76.8	0.5			G1/100
BL	(0°-30°)	354.0	2.1	B1/500		
BM	(30°-60°)	813.4	4.9	B1/1000		
BH	(60°-80°)	443.7	2.7	B1/500		G1/500
BVH	(80°-90°)	11.9	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1807.2	1807.2	1807.2	1807.2	1807.2	1807.2	1807.2	1807.2	1807.2	1807.2	1807.2
2.5°	2169.9	2152.0	2119.3	2116.4	2089.6	2056.9	2000.4	1941.0	1899.4	1893.4	1842.9
5°	2597.9	2589.0	2556.3	2535.5	2484.9	2407.7	2276.9	2146.1	2036.1	2024.2	1911.3
7.5°	2710.8	2716.8	2722.7	2743.5	2725.7	2690.0	2591.9	2407.7	2235.3	2208.5	2012.3
10°	2728.7	2722.7	2722.7	2749.5	2800.0	2850.5	2838.7	2681.1	2458.2	2425.5	2152.0
12.5°	2921.9	2930.8	2910.0	2898.1	2889.2	2915.9	3005.1	2936.7	2693.0	2666.3	2321.5
15°	3171.6	3168.6	3138.9	3138.9	3112.1	3067.5	3124.0	3174.5	2975.4	2942.7	2514.7
17.5°	3352.9	3364.8	3361.8	3379.6	3370.7	3311.3	3281.6	3385.6	3266.7	3225.1	2734.6
20°	3498.5	3531.2	3543.1	3599.6	3626.4	3584.7	3507.5	3572.8	3546.1	3507.5	2957.6
22.5°	3653.1	3679.9	3700.7	3798.8	3873.1	3864.1	3766.1	3751.2	3816.6	3780.9	3177.5
25°	3807.7	3819.6	3882.0	4000.9	4119.8	4149.5	4048.4	3932.5	4060.3	4027.6	3373.7
27.5°	3977.1	3983.0	4057.4	4203.0	4369.5	4431.9	4351.6	4137.6	4247.6	4247.6	3552.0
30°	4286.2	4345.7	4375.4	4506.2	4651.8	4738.0	4642.9	4354.6	4414.0	4440.8	3739.3
32.5°	4952.0	4961.0	4952.0	5008.5	5038.2	5088.8	4978.8	4598.3	4583.5	4613.2	3923.6
35°	5968.6	5932.9	5837.8	5754.6	5582.2	5487.1	5344.4	4910.4	4791.5	4833.2	4104.9
37.5°	7202.2	7151.6	6934.7	6679.0	6310.4	5930.0	5751.6	5290.9	5056.1	5109.6	4301.1
40°	8379.2	8346.6	8088.0	7772.9	7142.7	6491.8	6114.3	5611.9	5350.4	5371.2	4500.2
42.5°	9348.3	9342.3	9125.3	8795.4	7986.9	7098.1	6542.3	5927.0	5659.5	5692.2	4708.3
45°	10082.4	10026.0	9865.5	9627.7	8804.3	7728.3	7059.5	6405.6	6155.9	6194.5	5020.4
47.5°	10082.4	10091.4	10195.4	10171.6	9375.0	8319.8	7624.3	7009.0	6890.1	6925.7	5534.6
50°	9262.1	9345.3	9809.0	10198.4	9672.3	8780.5	8233.6	7764.0	7885.8	7939.3	6432.3
52.5°	7639.1	7778.8	8584.3	9473.1	9452.3	9012.4	8863.8	8724.0	9271.0	9366.1	7758.0
55°	5805.1	5897.3	6946.5	8114.7	8495.2	8822.1	9413.6	9942.7	11105.0	11084.1	9104.5
57.5°	4336.8	4423.0	5326.6	6622.5	7124.9	7998.8	9696.0	11336.8	12924.1	13004.3	10367.8
60°	3189.4	3254.8	4024.7	5088.8	5814.1	6738.5	9583.1	12710.1	15019.6	14927.5	11482.5
62.5°	2360.1	2395.8	2951.6	3644.2	4607.2	5490.1	8872.7	13649.3	16693.1	16505.8	12103.7
65°	1825.1	1837.0	2125.3	2493.9	3349.9	4268.4	7814.5	13792.0	17617.5	17418.4	12091.8
66°	1625.9	1634.8	1845.9	2131.2	2850.5	3736.3	7350.8	13563.1	17763.2	17552.1	11943.2
67.5°	1364.3	1358.4	1483.2	1670.5	2140.1	2883.2	6527.4	12894.4	17590.8	17483.8	11467.6
70°	1010.6	1013.6	1076.0	1120.6	1251.4	1596.2	4714.3	11185.2	16211.6	16205.6	10162.7
72.5°	749.0	758.0	805.5	814.4	781.7	865.0	2716.8	8896.4	12968.7	12971.6	7597.5
75°	561.8	576.6	591.5	597.5	567.7	546.9	1227.6	5986.5	8530.8	8468.4	4301.1
77.5°	428.0	434.0	445.9	436.9	431.0	377.5	511.3	2918.9	4211.9	3837.4	1394.1
80°	312.1	312.1	324.0	312.1	309.1	270.5	279.4	936.3	1236.5	1028.5	300.2
82.5°	196.2	193.2	202.1	199.2	193.2	172.4	163.5	261.6	285.4	255.6	145.6
85°	110.0	107.0	104.0	101.1	92.1	77.3	89.2	98.1	130.8	133.8	104.0
87.5°	38.6	38.6	35.7	32.7	26.8	26.8	32.7	32.7	47.6	47.6	53.5
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°	1807.2	1807.2	1807.2	1807.2	1807.2	1807.2	1807.2	1807.2	1807.2	1807.2	1807.2
2.5°	1819.1	1786.4	1738.9	1676.4	1631.9	1587.3	1539.7	1513.0	1474.3	1465.4	1477.3
5°	1851.8	1792.4	1673.5	1542.7	1429.7	1328.7	1233.6	1177.1	1120.6	1099.8	1108.7
7.5°	1920.2	1819.1	1617.0	1406.0	1218.7	1067.1	954.1	888.8	838.2	817.4	823.4
10°	2021.2	1866.7	1563.5	1251.4	1010.6	850.1	755.0	713.4	683.7	671.8	674.7
12.5°	2143.1	1935.0	1495.1	1096.8	832.3	692.6	648.0	639.1	633.1	627.2	630.2
15°	2279.8	1994.5	1414.9	945.2	692.6	615.3	600.4	597.5	594.5	594.5	594.5
17.5°	2422.5	2048.0	1325.7	802.6	603.4	567.7	558.8	558.8	558.8	561.8	561.8
20°	2556.3	2089.6	1221.7	674.7	552.9	523.1	517.2	517.2	520.2	523.1	523.1
22.5°	2687.1	2107.4	1099.8	585.6	511.3	484.5	475.6	475.6	475.6	478.6	478.6
25°	2800.0	2107.4	977.9	529.1	475.6	448.8	436.9	434.0	436.9	436.9	436.9
27.5°	2895.1	2098.5	859.0	490.4	439.9	413.2	401.3	398.3	404.2	407.2	407.2
30°	2996.2	2086.6	763.9	454.8	410.2	383.4	371.6	371.6	380.5	392.4	392.4
32.5°	3094.3	2095.6	689.6	425.1	380.5	359.7	347.8	350.7	368.6	386.4	386.4
35°	3198.3	2113.4	645.0	404.2	359.7	338.9	329.9	338.9	356.7	374.5	374.5
37.5°	3302.4	2134.2	618.3	386.4	341.8	321.0	315.1	327.0	347.8	365.6	368.6
40°	3412.3	2152.0	588.5	368.6	329.9	306.2	303.2	315.1	341.8	359.7	362.6
42.5°	3549.1	2187.7	552.9	353.7	318.0	288.3	291.3	300.2	327.0	353.7	356.7
45°	3816.6	2300.7	517.2	338.9	303.2	279.4	273.5	279.4	309.1	338.9	344.8
47.5°	4318.9	2556.3	478.6	324.0	288.3	273.5	249.7	255.6	282.4	315.1	318.0
50°	5282.0	3100.2	457.8	309.1	276.4	252.7	225.9	225.9	246.7	276.4	276.4
52.5°	6783.1	4075.2	469.6	297.2	261.6	231.8	205.1	202.1	214.0	234.8	234.8
55°	8403.0	5145.3	514.2	285.4	243.7	220.0	190.2	175.4	184.3	196.2	196.2
57.5°	9687.1	5683.3	636.1	279.4	222.9	211.0	172.4	151.6	160.5	172.4	172.4
60°	10251.9	5368.2	772.8	285.4	208.1	196.2	154.6	133.8	148.6	160.5	163.5
62.5°	9794.1	4420.0	829.3	270.5	187.3	175.4	151.6	124.8	142.7	151.6	154.6
65°	8804.3	3358.8	648.0	234.8	172.4	151.6	136.7	118.9	133.8	142.7	142.7
66°	8334.7	2927.8	552.9	217.0	166.5	142.7	130.8	118.9	130.8	136.7	139.7
67.5°	7606.4	2309.6	410.2	190.2	154.6	130.8	121.9	113.0	124.8	130.8	130.8
70°	5947.8	1376.2	246.7	148.6	133.8	115.9	110.0	104.0	113.0	115.9	115.9
72.5°	3724.4	653.9	157.5	110.0	113.0	110.0	92.1	98.1	101.1	104.0	104.0
75°	1804.3	258.6	107.0	80.3	92.1	104.0	74.3	86.2	89.2	95.1	92.1
77.5°	502.3	124.8	68.4	59.4	80.3	80.3	56.5	68.4	80.3	101.1	92.1
80°	145.6	80.3	44.6	44.6	56.5	56.5	38.6	47.6	53.5	59.4	62.4
82.5°	101.1	53.5	29.7	32.7	32.7	35.7	23.8	23.8	29.7	29.7	32.7
85°	80.3	23.8	17.8	20.8	14.9	17.8	11.9	11.9	14.9	11.9	11.9
87.5°	32.7	11.9	11.9	11.9	8.9	8.9	5.9	3.0	3.0	3.0	3.0
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)