

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: P1210628

Luminaire Tested: **ARCH3-180-740-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210628
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: ARCH3-180-740-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1375mA 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: 17503 lumens
Efficiency: N/A
Efficacy: 97.0 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): 180.5
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



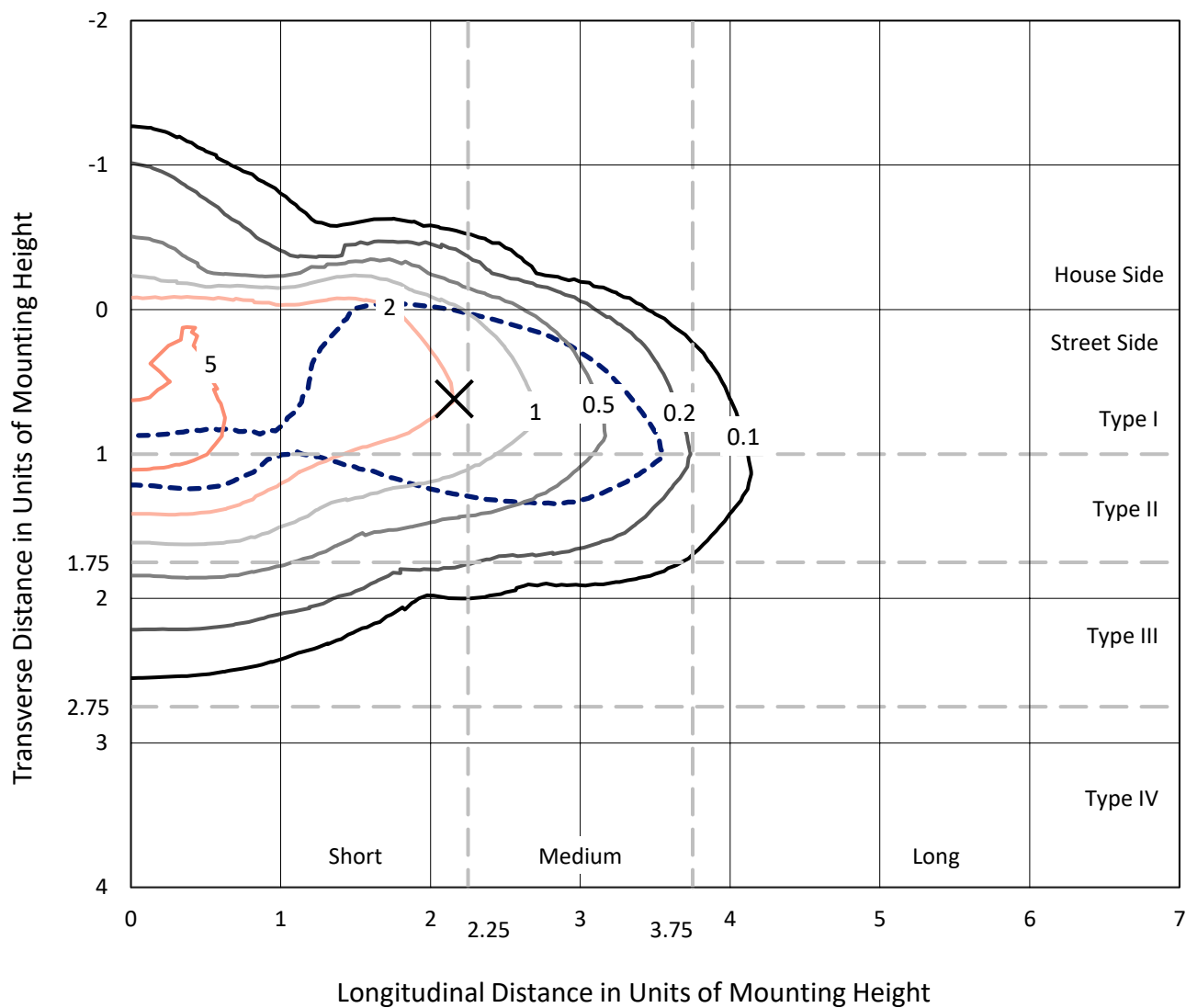
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

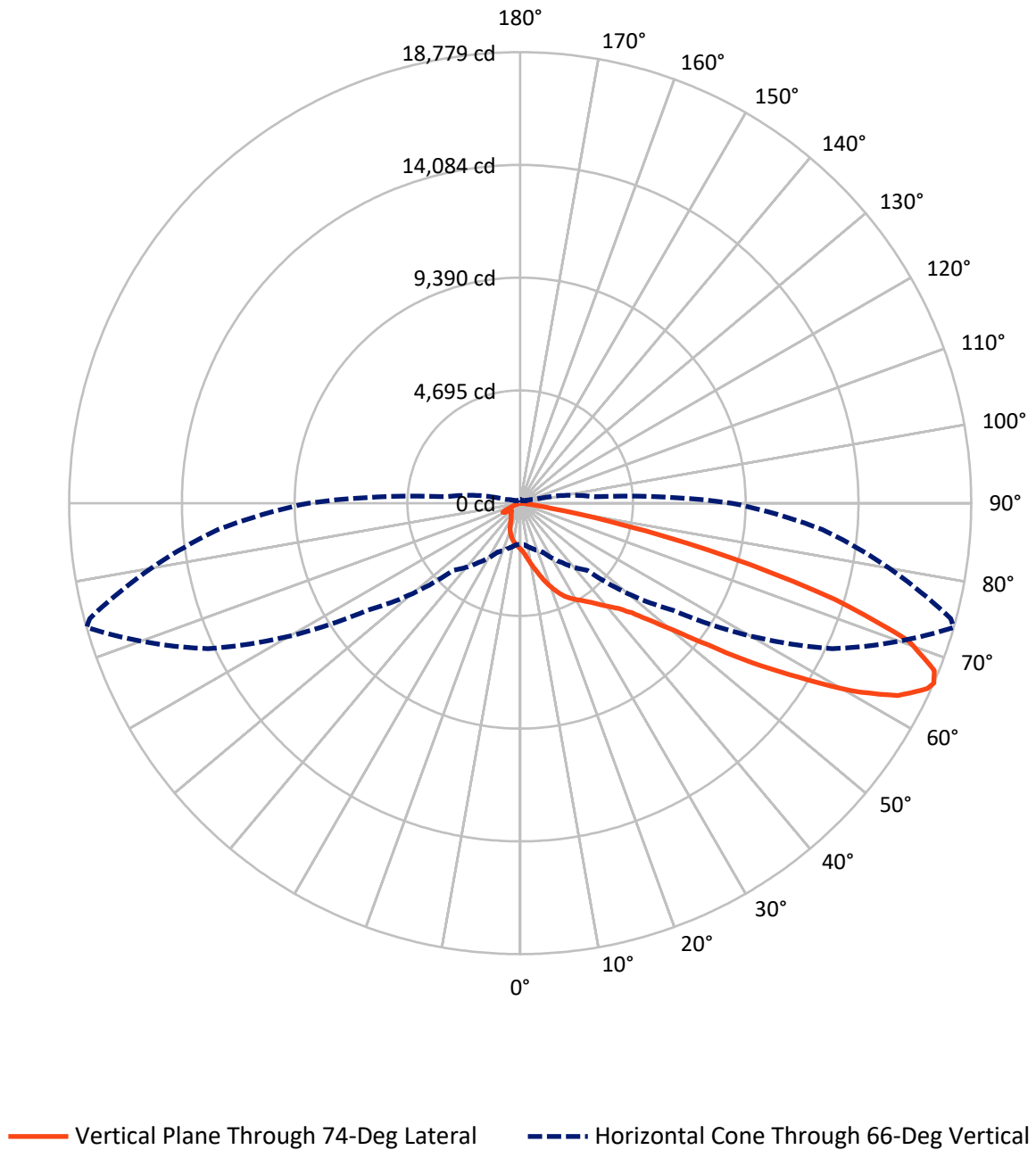


Based on 25 foot mounting height. Maximum calculated value = 6.4 fc

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	1715.8	0.0	1715.8
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	15787.2	0.0	15787.2
	% Fixture	90.2	0.0	90.2
Total	Lumens	17503.0	0.0	17503.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.5	1.1
10°-20°	597.8	3.4
20°-30°	1141.0	6.5
30°-40°	1999.8	11.4
40°-50°	3429.2	19.6
50°-60°	4459.9	25.5
60°-70°	4037.3	23.1
70°-80°	1557.8	8.9
80°-90°	93.7	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°	17503.0	100.0
0°-180°	17503.0	100.0

Coefficient of Utilization



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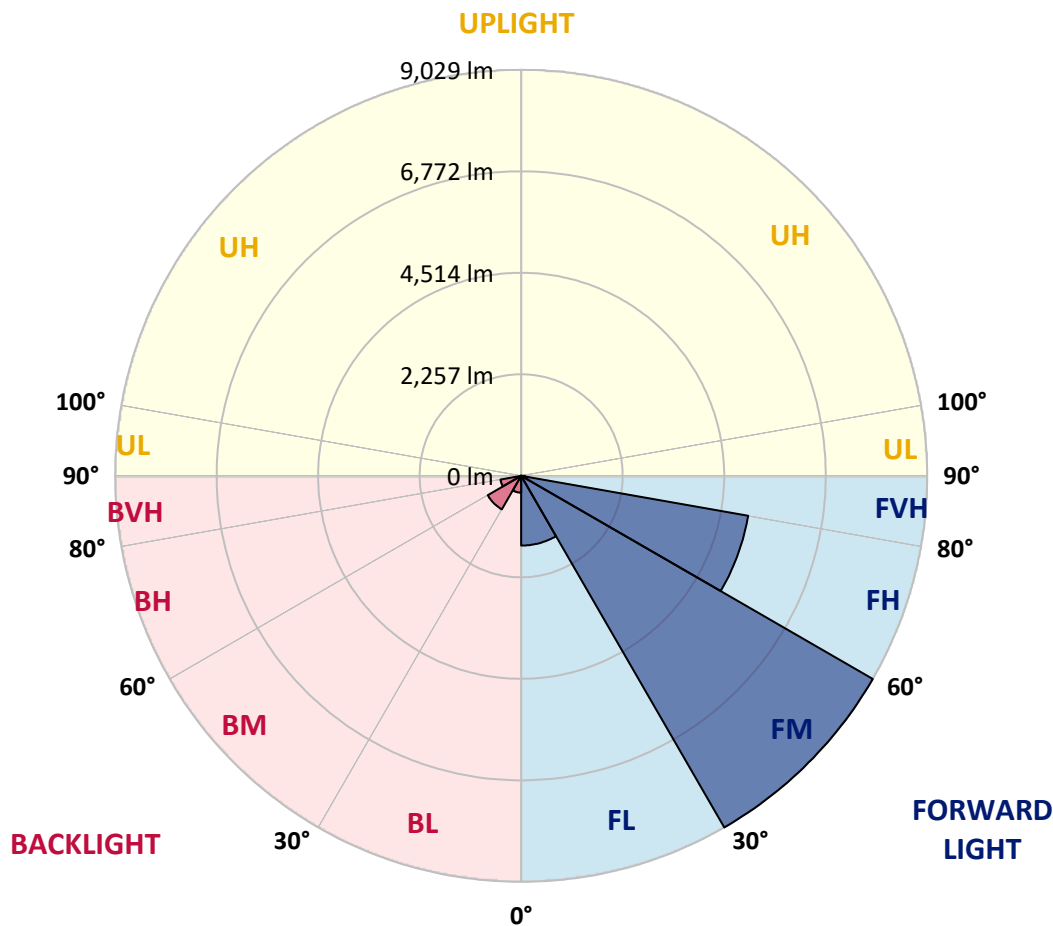
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1551.0	8.9			
FM	(30°-60°)	9028.9	51.6			
FH	(60°-80°)	5126.0	29.3			G3/7500
FVH	(80°-90°)	81.2	0.5			G1/100
BL	(0°-30°)	374.3	2.1	B1/500		
BM	(30°-60°)	859.9	4.9	B1/1000		
BH	(60°-80°)	469.1	2.7	B1/500		G1/500
BVH	(80°-90°)	12.6	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°	1910.6	1910.6	1910.6	1910.6	1910.6	1910.6	1910.6	1910.6	1910.6	1910.6	1910.6
2.5°	2294.0	2275.1	2240.6	2237.4	2209.1	2174.6	2114.9	2052.0	2008.0	2001.7	1948.3
5°	2746.5	2737.1	2702.5	2680.5	2627.1	2545.4	2407.1	2268.8	2152.6	2140.0	2020.6
7.5°	2865.9	2872.2	2878.5	2900.5	2881.6	2843.9	2740.2	2545.4	2363.1	2334.8	2127.4
10°	2884.8	2878.5	2878.5	2906.8	2960.2	3013.6	3001.0	2834.5	2598.8	2564.2	2275.1
12.5°	3089.0	3098.4	3076.4	3063.9	3054.5	3082.7	3177.0	3104.7	2847.1	2818.8	2454.2
15°	3353.0	3349.8	3318.4	3318.4	3290.1	3243.0	3302.7	3356.1	3145.6	3111.0	2658.5
17.5°	3544.7	3557.2	3554.1	3573.0	3563.5	3500.7	3469.3	3579.2	3453.5	3409.5	2891.0
20°	3698.7	3733.2	3745.8	3805.5	3833.8	3789.8	3708.1	3777.2	3748.9	3708.1	3126.7
22.5°	3862.1	3890.3	3912.3	4016.0	4094.6	4085.2	3981.5	3965.8	4034.9	3997.2	3359.3
25°	4025.5	4038.0	4104.0	4229.7	4355.4	4386.8	4280.0	4157.4	4292.6	4258.0	3566.7
27.5°	4204.6	4210.9	4289.4	4443.4	4619.4	4685.4	4600.5	4374.3	4490.5	4490.5	3755.2
30°	4531.4	4594.2	4625.7	4763.9	4917.9	5009.0	4908.5	4603.7	4666.5	4694.8	3953.2
32.5°	5235.3	5244.7	5235.3	5295.0	5326.4	5379.9	5263.6	4861.4	4845.6	4877.1	4148.0
35°	6310.0	6272.3	6171.8	6083.8	5901.5	5800.9	5650.1	5191.3	5065.6	5109.6	4339.7
37.5°	7614.1	7560.7	7331.3	7061.1	6671.4	6269.2	6080.6	5593.5	5345.3	5401.9	4547.1
40°	8858.5	8824.0	8550.6	8217.5	7551.3	6863.1	6464.0	5932.9	5656.4	5678.4	4757.7
42.5°	9883.0	9876.7	9647.3	9298.5	8443.7	7504.1	6916.5	6266.0	5983.2	6017.8	4977.6
45°	10659.2	10599.5	10429.8	10178.4	9307.9	8170.3	7463.3	6772.0	6508.0	6548.8	5307.6
47.5°	10659.2	10668.6	10778.6	10753.4	9911.3	8795.7	8060.4	7409.9	7284.2	7321.9	5851.2
50°	9791.8	9879.8	10370.1	10781.7	10225.5	9282.8	8704.6	8208.1	8336.9	8393.5	6800.2
52.5°	8076.1	8223.8	9075.4	10015.0	9993.0	9527.9	9370.8	9223.1	9801.3	9901.8	8201.8
55°	6137.2	6234.6	7343.9	8578.9	8981.1	9326.8	9952.1	10511.5	11740.2	11718.2	9625.3
57.5°	4584.8	4676.0	5631.3	7001.4	7532.4	8456.3	10250.6	11985.3	13663.3	13748.2	10960.8
60°	3371.8	3441.0	4254.9	5379.9	6146.6	7123.9	10131.2	13437.1	15878.8	15781.3	12139.2
62.5°	2495.1	2532.8	3120.4	3852.6	4870.8	5804.1	9380.2	14430.1	17647.9	17450.0	12796.0
65°	1929.5	1942.0	2246.8	2636.5	3541.5	4512.5	8261.5	14580.9	18625.2	18414.7	12783.4
66°	1718.9	1728.3	1951.5	2253.1	3013.6	3950.0	7771.3	14339.0	18779.2	18556.1	12626.3
67.5°	1442.4	1436.1	1568.1	1766.1	2262.6	3048.2	6900.8	13631.9	18597.0	18483.8	12123.5
70°	1068.4	1071.6	1137.6	1184.7	1323.0	1687.5	4983.9	11825.0	17138.9	17132.6	10744.0
72.5°	791.9	801.3	851.6	861.0	826.5	914.5	2872.2	9405.3	13710.5	13713.6	8032.1
75°	593.9	609.6	625.3	631.6	600.2	578.2	1297.8	6328.9	9018.8	8952.8	4547.1
77.5°	452.5	458.8	471.4	461.9	455.7	399.1	540.5	3085.9	4452.8	4056.9	1473.8
80°	330.0	330.0	342.5	330.0	326.8	286.0	295.4	989.9	1307.3	1087.3	317.4
82.5°	207.4	204.3	213.7	210.5	204.3	182.3	172.8	276.5	301.7	270.2	154.0
85°	116.3	113.1	110.0	106.8	97.4	81.7	94.3	103.7	138.3	141.4	110.0
87.5°	40.9	40.9	37.7	34.6	28.3	28.3	34.6	34.6	50.3	50.3	56.6
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°	1910.6	1910.6	1910.6	1910.6	1910.6	1910.6	1910.6	1910.6	1910.6	1910.6	1910.6
2.5°	1923.2	1888.6	1838.3	1772.3	1725.2	1678.1	1627.8	1599.5	1558.7	1549.2	1561.8
5°	1957.7	1894.9	1769.2	1630.9	1511.5	1404.7	1304.1	1244.4	1184.7	1162.7	1172.1
7.5°	2030.0	1923.2	1709.5	1486.4	1288.4	1128.1	1008.7	939.6	886.2	864.2	870.5
10°	2136.9	1973.5	1652.9	1323.0	1068.4	898.7	798.2	754.2	722.8	710.2	713.3
12.5°	2265.7	2045.7	1580.6	1159.6	879.9	732.2	685.1	675.6	669.3	663.1	666.2
15°	2410.3	2108.6	1495.8	999.3	732.2	650.5	634.8	631.6	628.5	628.5	628.5
17.5°	2561.1	2165.1	1401.5	848.5	637.9	600.2	590.8	590.8	590.8	593.9	593.9
20°	2702.5	2209.1	1291.5	713.3	584.5	553.1	546.8	546.8	549.9	553.1	553.1
22.5°	2840.8	2228.0	1162.7	619.1	540.5	512.2	502.8	502.8	502.8	505.9	505.9
25°	2960.2	2228.0	1033.9	559.4	502.8	474.5	461.9	458.8	461.9	461.9	461.9
27.5°	3060.7	2218.6	908.2	518.5	465.1	436.8	424.2	421.1	427.4	430.5	430.5
30°	3167.6	2206.0	807.6	480.8	433.7	405.4	392.8	392.8	402.2	414.8	414.8
32.5°	3271.3	2215.4	729.0	449.4	402.2	380.2	367.7	370.8	389.7	408.5	408.5
35°	3381.3	2234.3	681.9	427.4	380.2	358.2	348.8	358.2	377.1	395.9	395.9
37.5°	3491.3	2256.3	653.6	408.5	361.4	339.4	333.1	345.7	367.7	386.5	389.7
40°	3607.5	2275.1	622.2	389.7	348.8	323.7	320.5	333.1	361.4	380.2	383.4
42.5°	3752.1	2312.8	584.5	374.0	336.2	304.8	308.0	317.4	345.7	374.0	377.1
45°	4034.9	2432.2	546.8	358.2	320.5	295.4	289.1	295.4	326.8	358.2	364.5
47.5°	4566.0	2702.5	505.9	342.5	304.8	289.1	264.0	270.2	298.5	333.1	336.2
50°	5584.1	3277.6	483.9	326.8	292.2	267.1	238.8	238.8	260.8	292.2	292.2
52.5°	7171.0	4308.3	496.5	314.2	276.5	245.1	216.8	213.7	226.3	248.3	248.3
55°	8883.7	5439.6	543.6	301.7	257.7	232.5	201.1	185.4	194.8	207.4	207.4
57.5°	10241.2	6008.3	672.5	295.4	235.7	223.1	182.3	160.3	169.7	182.3	182.3
60°	10838.3	5675.2	817.0	301.7	220.0	207.4	163.4	141.4	157.1	169.7	172.8
62.5°	10354.3	4672.8	876.7	286.0	198.0	185.4	160.3	132.0	150.8	160.3	163.4
65°	9307.9	3551.0	685.1	248.3	182.3	160.3	144.6	125.7	141.4	150.8	150.8
66°	8811.4	3095.3	584.5	229.4	176.0	150.8	138.3	125.7	138.3	144.6	147.7
67.5°	8041.5	2441.7	433.7	201.1	163.4	138.3	128.8	119.4	132.0	138.3	138.3
70°	6288.0	1454.9	260.8	157.1	141.4	122.6	116.3	110.0	119.4	122.6	122.6
72.5°	3937.5	691.3	166.5	116.3	119.4	116.3	97.4	103.7	106.8	110.0	110.0
75°	1907.5	273.4	113.1	84.8	97.4	110.0	78.6	91.1	94.3	100.6	97.4
77.5°	531.1	132.0	72.3	62.8	84.8	84.8	59.7	72.3	84.8	106.8	97.4
80°	154.0	84.8	47.1	47.1	59.7	59.7	40.9	50.3	56.6	62.8	66.0
82.5°	106.8	56.6	31.4	34.6	34.6	37.7	25.1	25.1	31.4	31.4	34.6
85°	84.8	25.1	18.9	22.0	15.7	18.9	12.6	12.6	15.7	12.6	12.6
87.5°	34.6	12.6	12.6	12.6	9.4	9.4	6.3	3.1	3.1	3.1	3.1
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)