

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: P1210596

Luminaire Tested: **ARCH3-170-740-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210596
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: ARCH3-170-740-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1310mA 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: 16886 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 170.6
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

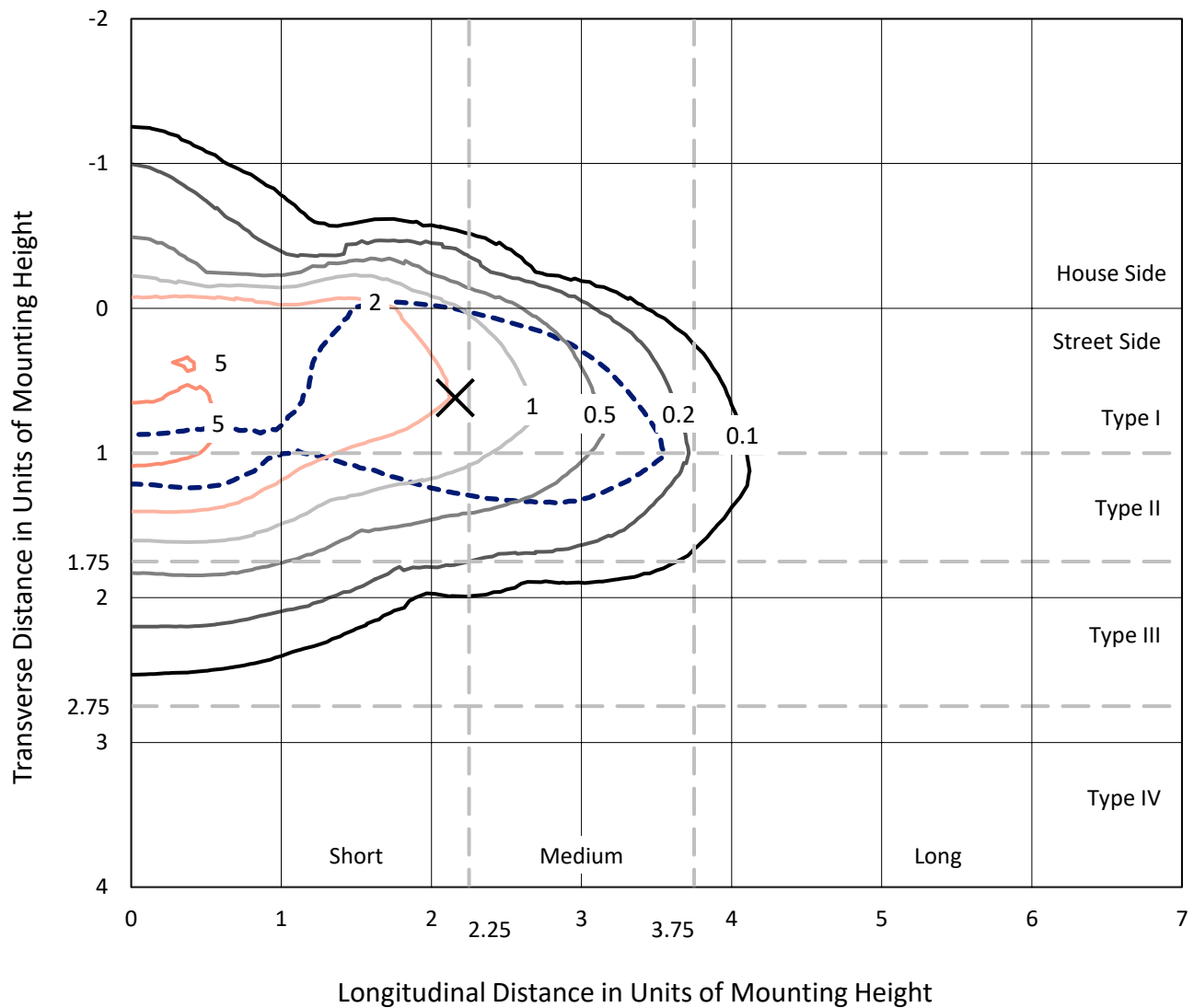


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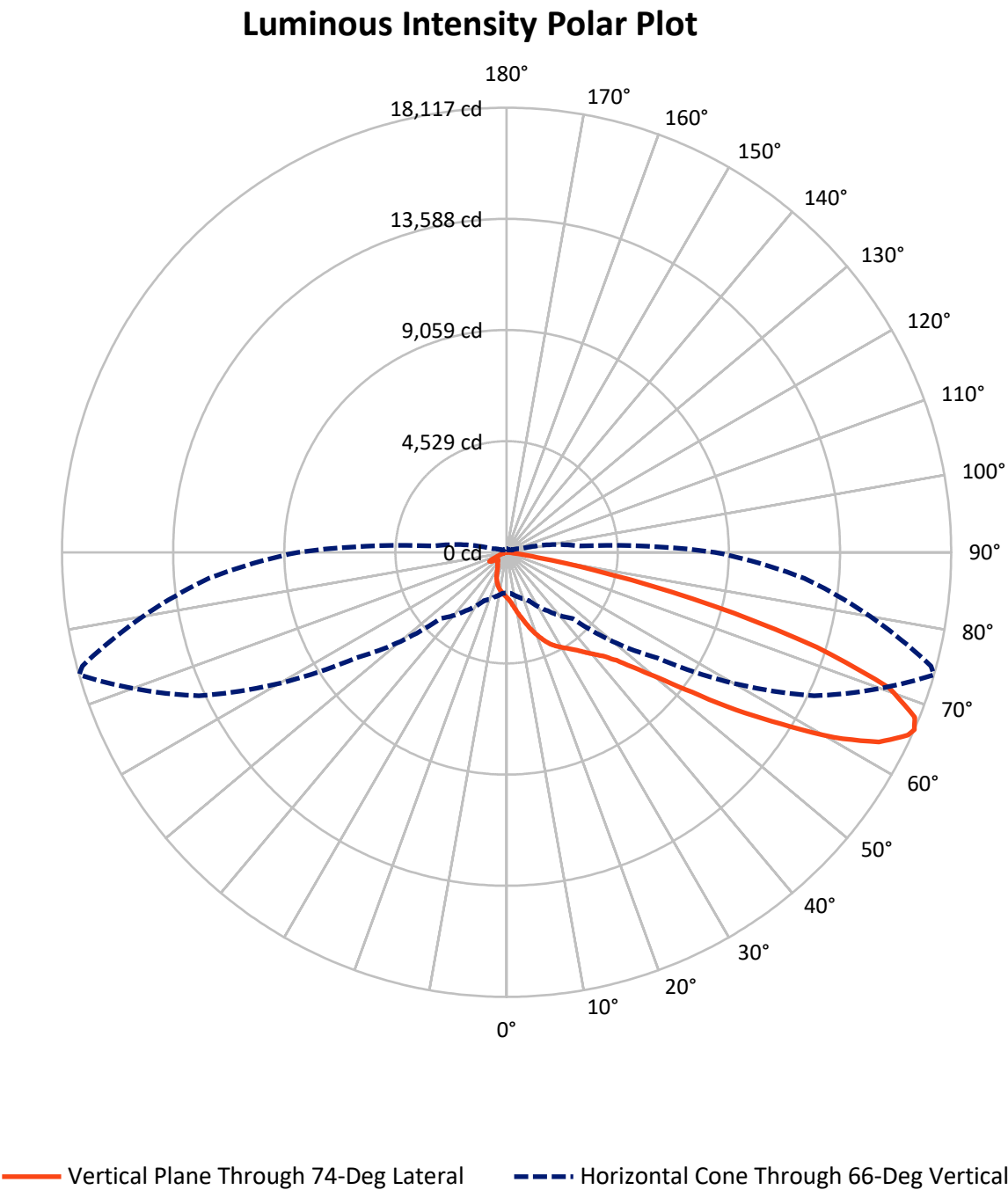
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1655.4	0.0	1655.4
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	15230.6	0.0	15230.6
	% Fixture	90.2	0.0	90.2
Total	Lumens	16886.0	0.0	16886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	1.1
10°-20°	576.8	3.4
20°-30°	1100.7	6.5
30°-40°	1929.3	11.4
40°-50°	3308.3	19.6
50°-60°	4302.7	25.5
60°-70°	3895.0	23.1
70°-80°	1502.9	8.9
80°-90°	90.4	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°	16886.0	100.0
0°-180°	16886.0	100.0

Coefficient of Utilization



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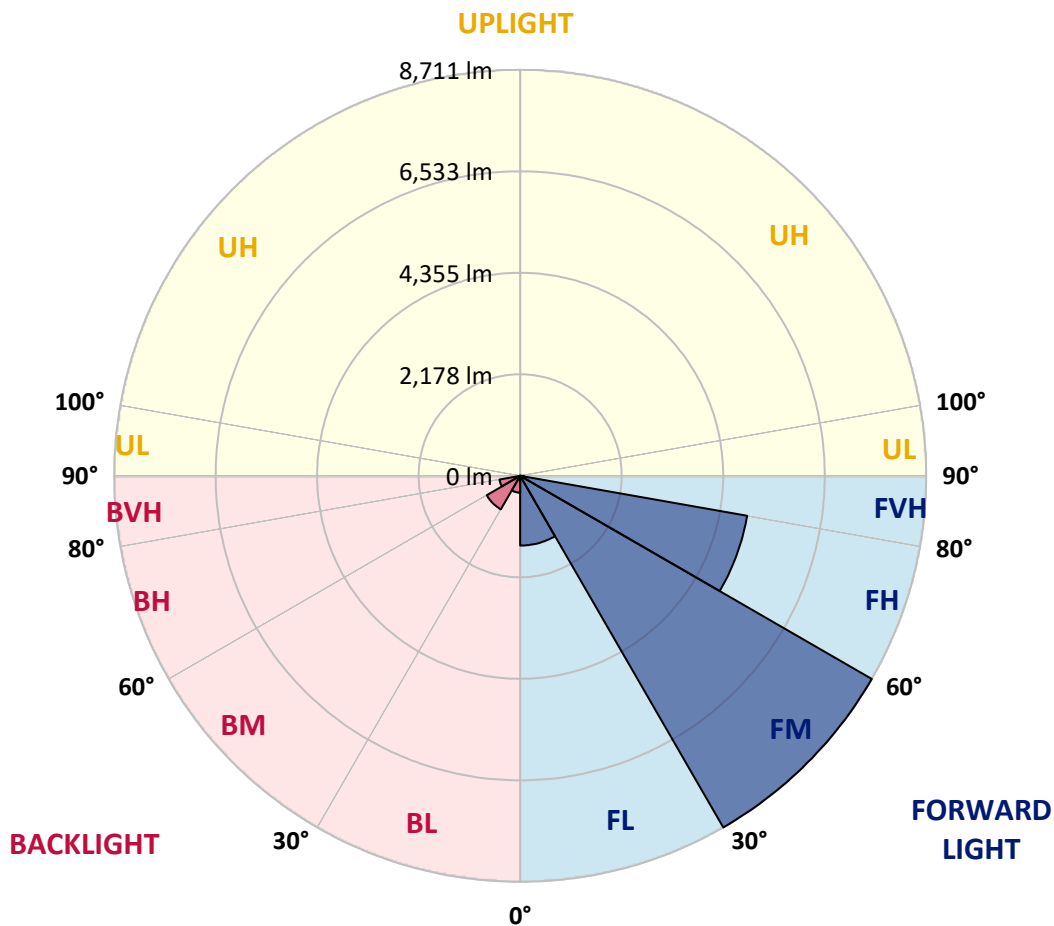
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1496.3	8.9			
FM	(30°-60°)	8710.6	51.6			
FH	(60°-80°)	4945.3	29.3			G2/5000
FVH	(80°-90°)	78.3	0.5			G1/100
BL	(0°-30°)	361.1	2.1	B1/500		
BM	(30°-60°)	829.6	4.9	B1/1000		
BH	(60°-80°)	452.5	2.7	B1/500		G1/500
BVH	(80°-90°)	12.1	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°	1843.3	1843.3	1843.3	1843.3	1843.3	1843.3	1843.3	1843.3	1843.3	1843.3	1843.3
2.5°	2213.1	2194.9	2161.6	2158.5	2131.3	2097.9	2040.3	1979.7	1937.2	1931.2	1879.6
5°	2649.7	2640.6	2607.2	2586.0	2534.5	2455.6	2322.3	2188.9	2076.7	2064.6	1949.4
7.5°	2764.9	2770.9	2777.0	2798.2	2780.0	2743.7	2643.6	2455.6	2279.8	2252.5	2052.4
10°	2783.1	2777.0	2777.0	2804.3	2855.8	2907.4	2895.2	2734.6	2507.2	2473.8	2194.9
12.5°	2980.1	2989.2	2968.0	2955.9	2946.8	2974.1	3065.0	2995.3	2746.7	2719.4	2367.7
15°	3234.8	3231.8	3201.4	3201.4	3174.2	3128.7	3186.3	3237.8	3034.7	3001.3	2564.8
17.5°	3419.7	3431.8	3428.8	3447.0	3437.9	3377.3	3347.0	3453.1	3331.8	3289.4	2789.1
20°	3568.3	3601.6	3613.7	3671.3	3698.6	3656.2	3577.4	3644.1	3616.8	3577.4	3016.5
22.5°	3725.9	3753.2	3774.4	3874.5	3950.3	3941.2	3841.1	3826.0	3892.7	3856.3	3240.9
25°	3883.6	3895.7	3959.4	4080.6	4201.9	4232.2	4129.1	4010.9	4141.3	4107.9	3440.9
27.5°	4056.4	4062.4	4138.2	4286.8	4456.5	4520.2	4438.4	4220.1	4332.3	4332.3	3622.8
30°	4371.7	4432.3	4462.6	4596.0	4744.6	4832.5	4735.5	4441.4	4502.0	4529.3	3813.8
32.5°	5050.8	5059.9	5050.8	5108.4	5138.7	5190.2	5078.0	4690.0	4674.8	4705.1	4001.8
35°	6087.6	6051.2	5954.2	5869.3	5693.5	5596.5	5450.9	5008.3	4887.0	4929.5	4186.7
37.5°	7345.7	7294.2	7072.9	6812.2	6436.2	6048.2	5866.3	5396.4	5156.9	5211.4	4386.8
40°	8546.3	8512.9	8249.2	7927.8	7285.1	6621.2	6236.1	5723.8	5457.0	5478.2	4589.9
42.5°	9534.6	9528.5	9307.2	8970.7	8146.1	7239.6	6672.7	6045.1	5772.3	5805.6	4802.2
45°	10283.4	10225.8	10062.1	9819.6	8979.8	7882.3	7200.2	6533.2	6278.6	6318.0	5120.5
47.5°	10283.4	10292.5	10398.6	10374.4	9561.9	8485.6	7776.2	7148.7	7027.4	7063.8	5645.0
50°	9446.7	9531.6	10004.5	10401.6	9865.0	8955.5	8397.7	7918.7	8043.0	8097.6	6560.5
52.5°	7791.4	7933.9	8755.5	9661.9	9640.7	9192.0	9040.4	8897.9	9455.8	9552.8	7912.6
55°	5920.8	6014.8	7085.0	8276.4	8664.5	8998.0	9601.3	10140.9	11326.3	11305.1	9286.0
57.5°	4423.2	4511.1	5432.7	6754.6	7266.9	8158.2	9889.3	11562.8	13181.7	13263.5	10574.5
60°	3253.0	3319.7	4104.9	5190.2	5929.9	6872.8	9774.1	12963.4	15319.0	15225.0	11711.3
62.5°	2407.1	2443.5	3010.4	3716.8	4699.1	5599.5	9049.5	13921.4	17025.8	16834.8	12344.9
65°	1861.4	1873.6	2167.6	2543.6	3416.7	4353.5	7970.2	14066.9	17968.7	17765.6	12332.8
66°	1658.3	1667.4	1882.7	2173.7	2907.4	3810.8	7497.3	13833.5	18117.2	17902.0	12181.2
67.5°	1391.5	1385.5	1512.8	1703.8	2182.8	2940.7	6657.5	13151.4	17941.4	17832.3	11696.2
70°	1030.8	1033.8	1097.5	1142.9	1276.3	1628.0	4808.2	11408.2	16534.7	16528.6	10365.3
72.5°	764.0	773.1	821.6	830.7	797.3	882.2	2770.9	9073.8	13227.2	13230.2	7748.9
75°	573.0	588.1	603.3	609.4	579.0	557.8	1252.1	6105.8	8700.9	8637.2	4386.8
77.5°	436.6	442.6	454.7	445.7	439.6	385.0	521.4	2977.1	4295.9	3913.9	1421.9
80°	318.3	318.3	330.5	318.3	315.3	275.9	285.0	955.0	1261.2	1049.0	306.2
82.5°	200.1	197.1	206.2	203.1	197.1	175.8	166.7	266.8	291.0	260.7	148.6
85°	112.2	109.1	106.1	103.1	94.0	78.8	90.9	100.0	133.4	136.4	106.1
87.5°	39.4	39.4	36.4	33.3	27.3	27.3	33.3	33.3	48.5	48.5	54.6
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°	1843.3	1843.3	1843.3	1843.3	1843.3	1843.3	1843.3	1843.3	1843.3	1843.3	1843.3
2.5°	1855.4	1822.0	1773.5	1709.9	1664.4	1618.9	1570.4	1543.1	1503.7	1494.6	1506.7
5°	1888.7	1828.1	1706.8	1573.4	1458.2	1355.2	1258.1	1200.5	1142.9	1121.7	1130.8
7.5°	1958.5	1855.4	1649.2	1434.0	1243.0	1088.4	973.2	906.5	854.9	833.7	839.8
10°	2061.5	1903.9	1594.7	1276.3	1030.8	867.1	770.0	727.6	697.3	685.2	688.2
12.5°	2185.8	1973.6	1524.9	1118.7	848.9	706.4	660.9	651.8	645.7	639.7	642.7
15°	2325.3	2034.2	1443.1	964.1	706.4	627.6	612.4	609.4	606.3	606.3	606.3
17.5°	2470.8	2088.8	1352.1	818.5	615.4	579.0	570.0	570.0	570.0	573.0	573.0
20°	2607.2	2131.3	1246.0	688.2	563.9	533.6	527.5	527.5	530.5	533.6	533.6
22.5°	2740.6	2149.5	1121.7	597.2	521.4	494.2	485.1	485.1	485.1	488.1	488.1
25°	2855.8	2149.5	997.4	539.6	485.1	457.8	445.7	442.6	445.7	445.7	445.7
27.5°	2952.8	2140.4	876.2	500.2	448.7	421.4	409.3	406.2	412.3	415.3	415.3
30°	3055.9	2128.2	779.1	463.8	418.4	391.1	379.0	379.0	388.1	400.2	400.2
32.5°	3156.0	2137.3	703.3	433.5	388.1	366.8	354.7	357.7	375.9	394.1	394.1
35°	3262.1	2155.5	657.9	412.3	366.8	345.6	336.5	345.6	363.8	382.0	382.0
37.5°	3368.2	2176.7	630.6	394.1	348.6	327.4	321.4	333.5	354.7	372.9	375.9
40°	3480.4	2194.9	600.3	375.9	336.5	312.3	309.2	321.4	348.6	366.8	369.9
42.5°	3619.8	2231.3	563.9	360.8	324.4	294.1	297.1	306.2	333.5	360.8	363.8
45°	3892.7	2346.5	527.5	345.6	309.2	285.0	278.9	285.0	315.3	345.6	351.7
47.5°	4405.0	2607.2	488.1	330.5	294.1	278.9	254.7	260.7	288.0	321.4	324.4
50°	5387.3	3162.0	466.9	315.3	281.9	257.7	230.4	230.4	251.6	281.9	281.9
52.5°	6918.3	4156.4	479.0	303.2	266.8	236.5	209.2	206.2	218.3	239.5	239.5
55°	8570.5	5247.8	524.5	291.0	248.6	224.3	194.0	178.9	188.0	200.1	200.1
57.5°	9880.2	5796.5	648.8	285.0	227.4	215.2	175.8	154.6	163.7	175.8	175.8
60°	10456.2	5475.2	788.2	291.0	212.2	200.1	157.6	136.4	151.6	163.7	166.7
62.5°	9989.3	4508.1	845.8	275.9	191.0	178.9	154.6	127.3	145.5	154.6	157.6
65°	8979.8	3425.8	660.9	239.5	175.8	154.6	139.5	121.3	136.4	145.5	145.5
66°	8500.8	2986.2	563.9	221.3	169.8	145.5	133.4	121.3	133.4	139.5	142.5
67.5°	7758.0	2355.6	418.4	194.0	157.6	133.4	124.3	115.2	127.3	133.4	133.4
70°	6066.4	1403.7	251.6	151.6	136.4	118.2	112.2	106.1	115.2	118.2	118.2
72.5°	3798.7	667.0	160.7	112.2	115.2	112.2	94.0	100.0	103.1	106.1	106.1
75°	1840.2	263.8	109.1	81.9	94.0	106.1	75.8	87.9	90.9	97.0	94.0
77.5°	512.4	127.3	69.7	60.6	81.9	81.9	57.6	69.7	81.9	103.1	94.0
80°	148.6	81.9	45.5	45.5	57.6	57.6	39.4	48.5	54.6	60.6	63.7
82.5°	103.1	54.6	30.3	33.3	33.3	36.4	24.3	24.3	30.3	30.3	33.3
85°	81.9	24.3	18.2	21.2	15.2	18.2	12.1	12.1	15.2	12.1	12.1
87.5°	33.3	12.1	12.1	12.1	9.1	9.1	6.1	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)