

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: P1211132

Luminaire Tested: **ARCH4-180-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211132
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: ARCH4-180-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1455mA 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: 19824 lumens
Efficiency: N/A
Efficacy: 110.1 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): 180
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

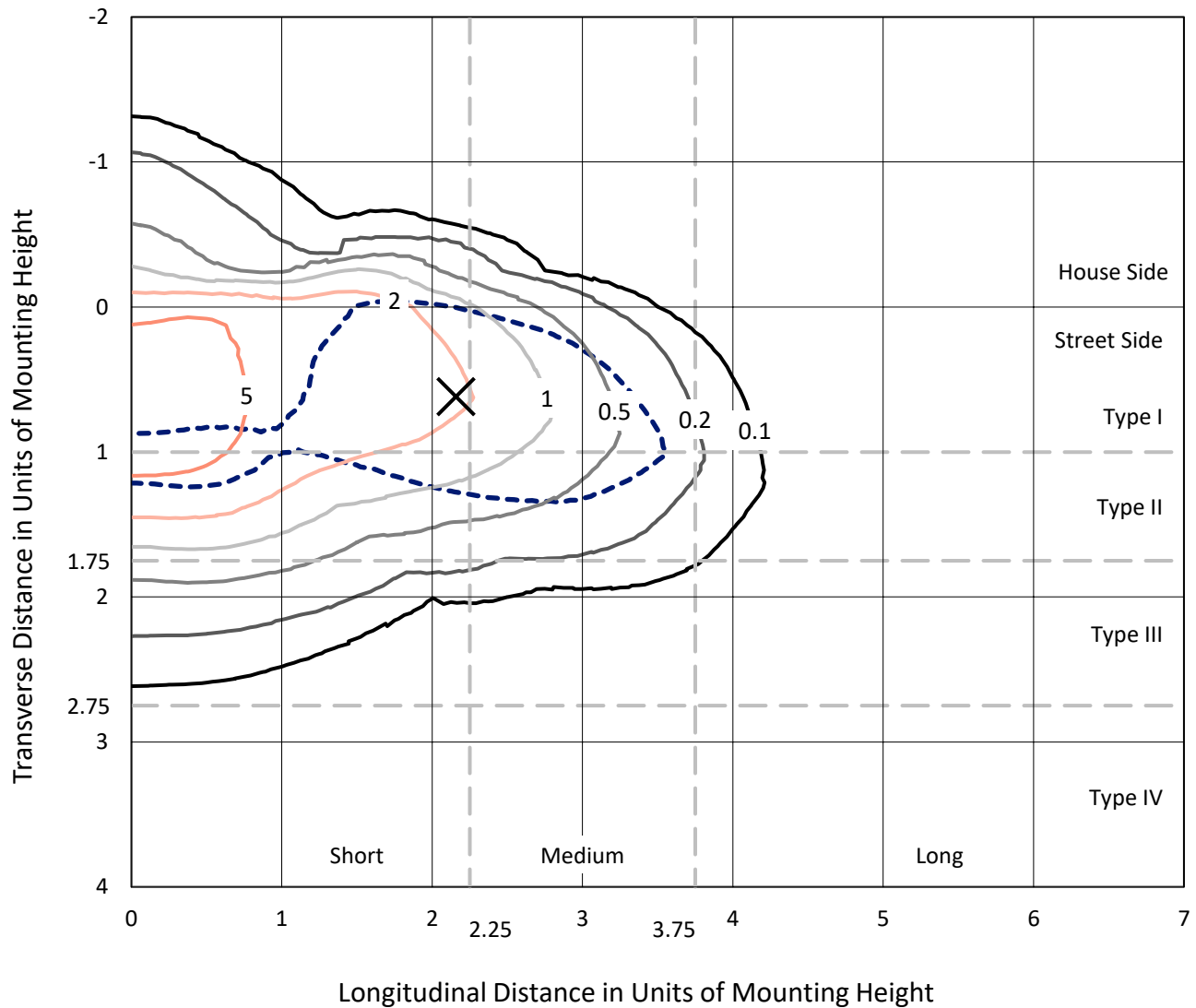


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Iso-Footcandle Lines of Horizontal Illumination

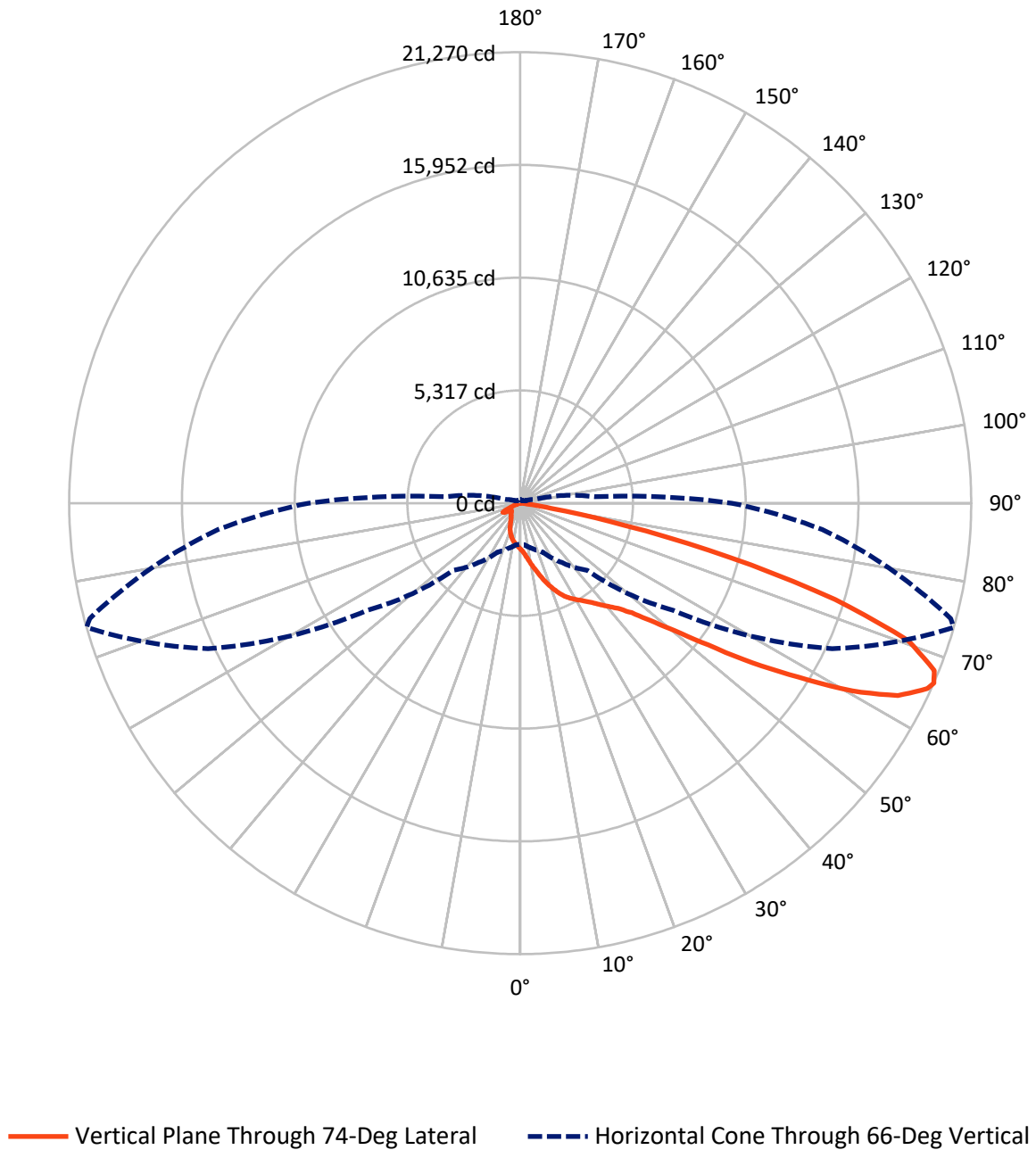
✕ Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1943.4	0.0	1943.4
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	17880.6	0.0	17880.6
	% Fixture	90.2	0.0	90.2
Total	Lumens	19824.0	0.0	19824.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.2	1.1
10°-20°	677.1	3.4
20°-30°	1292.3	6.5
30°-40°	2265.0	11.4
40°-50°	3883.9	19.6
50°-60°	5051.3	25.5
60°-70°	4572.7	23.1
70°-80°	1764.4	8.9
80°-90°	106.2	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°	19824.0	100.0
0°-180°	19824.0	100.0

Coefficient of Utilization



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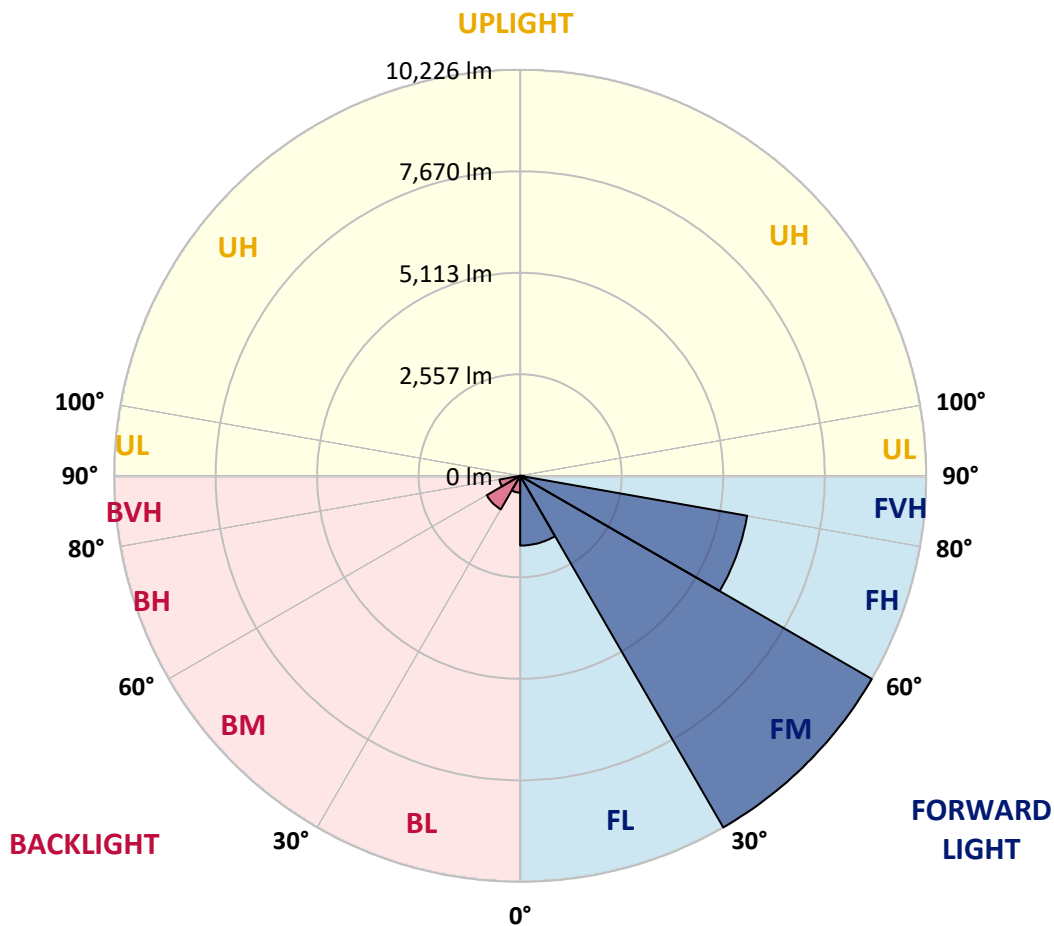
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1756.7	8.9			
FM	(30°-60°)	10226.2	51.6			
FH	(60°-80°)	5805.8	29.3			G3/7500
FVH	(80°-90°)	91.9	0.5			G1/100
BL	(0°-30°)	423.9	2.1	B1/500		
BM	(30°-60°)	974.0	4.9	B1/1000		
BH	(60°-80°)	531.3	2.7	B2/1000		G2/1000
BVH	(80°-90°)	14.2	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°	2164.0	2164.0	2164.0	2164.0	2164.0	2164.0	2164.0	2164.0	2164.0	2164.0	2164.0
2.5°	2598.2	2576.8	2537.7	2534.1	2502.1	2462.9	2395.3	2324.1	2274.3	2267.2	2206.7
5°	3110.7	3100.0	3060.9	3036.0	2975.4	2882.9	2726.3	2569.7	2438.0	2423.8	2288.5
7.5°	3245.9	3253.1	3260.2	3285.1	3263.7	3221.0	3103.6	2882.9	2676.5	2644.4	2409.5
10°	3267.3	3260.2	3260.2	3292.2	3352.7	3413.2	3399.0	3210.3	2943.4	2904.3	2576.8
12.5°	3498.6	3509.3	3484.4	3470.2	3459.5	3491.5	3598.3	3516.4	3224.6	3192.6	2779.7
15°	3797.6	3794.0	3758.5	3758.5	3726.4	3673.0	3740.7	3801.2	3562.7	3523.6	3011.0
17.5°	4014.7	4029.0	4025.4	4046.7	4036.1	3964.9	3929.3	4053.9	3911.5	3861.7	3274.4
20°	4189.1	4228.3	4242.5	4310.1	4342.2	4292.3	4199.8	4278.1	4246.1	4199.8	3541.4
22.5°	4374.2	4406.2	4431.1	4548.6	4637.6	4626.9	4509.4	4491.6	4569.9	4527.2	3804.7
25°	4559.3	4573.5	4648.2	4790.6	4933.0	4968.6	4847.6	4708.8	4861.8	4822.6	4039.6
27.5°	4762.1	4769.3	4858.2	5032.6	5231.9	5306.7	5210.6	4954.3	5086.0	5086.0	4253.2
30°	5132.3	5203.5	5239.1	5395.7	5570.1	5673.3	5559.4	5214.1	5285.3	5317.4	4477.4
32.5°	5929.5	5940.2	5929.5	5997.2	6032.8	6093.3	5961.6	5506.0	5488.2	5523.8	4698.1
35°	7146.8	7104.1	6990.2	6890.5	6684.1	6570.2	6399.3	5879.7	5737.3	5787.2	4915.2
37.5°	8623.8	8563.3	8303.5	7997.4	7556.1	7100.5	6886.9	6335.3	6054.1	6118.2	5150.1
40°	10033.2	9994.1	9684.4	9307.2	8552.6	7773.2	7321.2	6719.7	6406.5	6431.4	5388.5
42.5°	11193.5	11186.4	10926.6	10531.5	9563.4	8499.2	7833.7	7096.9	6776.6	6815.8	5637.7
45°	12072.6	12005.0	11812.8	11528.1	10542.2	9253.8	8453.0	7670.0	7371.0	7417.3	6011.4
47.5°	12072.6	12083.3	12207.9	12179.4	11225.5	9962.1	9129.2	8392.5	8250.1	8292.8	6627.1
50°	11090.3	11190.0	11745.2	12211.4	11581.5	10513.7	9858.8	9296.5	9442.4	9506.5	7702.0
52.5°	9147.0	9314.3	10278.8	11343.0	11318.1	10791.3	10613.4	10446.1	11101.0	11214.9	9289.4
55°	6951.0	7061.3	8317.7	9716.5	10172.0	10563.5	11271.8	11905.3	13297.0	13272.1	10901.7
57.5°	5192.8	5296.0	6378.0	7929.8	8531.3	9577.7	11609.9	13574.6	15475.2	15571.3	12414.3
60°	3819.0	3897.3	4819.1	6093.3	6961.7	8068.6	11474.7	15218.9	17984.4	17874.0	13749.0
62.5°	2826.0	2868.7	3534.2	4363.5	5516.7	6573.7	10624.1	16343.6	19988.2	19763.9	14492.8
65°	2185.3	2199.6	2544.8	2986.1	4011.2	5110.9	9357.0	16514.4	21095.1	20856.6	14478.6
66°	1946.9	1957.5	2210.2	2551.9	3413.2	4473.8	8801.8	16240.4	21269.5	21016.8	14300.6
67.5°	1633.6	1626.5	1776.0	2000.2	2562.6	3452.4	7815.9	15439.6	21063.0	20934.9	13731.2
70°	1210.1	1213.7	1288.4	1341.8	1498.4	1911.3	5644.8	13393.1	19411.6	19404.5	12168.7
72.5°	896.9	907.6	964.5	975.2	936.1	1035.7	3253.1	10652.5	15528.6	15532.1	9097.2
75°	672.7	690.5	708.3	715.4	679.8	654.9	1469.9	7168.1	10214.7	10140.0	5150.1
77.5°	512.5	519.6	533.9	523.2	516.1	452.0	612.2	3495.1	5043.3	4594.9	1669.2
80°	373.7	373.7	387.9	373.7	370.2	323.9	334.6	1121.1	1480.6	1231.5	359.5
82.5°	234.9	231.3	242.0	238.5	231.3	206.4	195.8	313.2	341.7	306.1	174.4
85°	131.7	128.1	124.6	121.0	110.3	92.5	106.8	117.5	156.6	160.2	124.6
87.5°	46.3	46.3	42.7	39.2	32.0	32.0	39.2	39.2	56.9	56.9	64.1
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°	2164.0	2164.0	2164.0	2164.0	2164.0	2164.0	2164.0	2164.0	2164.0	2164.0	2164.0
2.5°	2178.2	2139.0	2082.1	2007.4	1954.0	1900.6	1843.6	1811.6	1765.3	1754.7	1768.9
5°	2217.3	2146.2	2003.8	1847.2	1711.9	1590.9	1477.0	1409.4	1341.8	1316.9	1327.6
7.5°	2299.2	2178.2	1936.2	1683.5	1459.2	1277.7	1142.5	1064.2	1003.7	978.8	985.9
10°	2420.2	2235.1	1872.1	1498.4	1210.1	1017.9	904.0	854.2	818.6	804.4	807.9
12.5°	2566.1	2317.0	1790.3	1313.3	996.6	829.3	775.9	765.2	758.1	751.0	754.5
15°	2729.9	2388.2	1694.2	1131.8	829.3	736.7	718.9	715.4	711.8	711.8	711.8
17.5°	2900.7	2452.3	1587.4	961.0	722.5	679.8	669.1	669.1	669.1	672.7	672.7
20°	3060.9	2502.1	1462.8	807.9	662.0	626.4	619.3	619.3	622.9	626.4	626.4
22.5°	3217.5	2523.4	1316.9	701.2	612.2	580.1	569.5	569.5	569.5	573.0	573.0
25°	3352.7	2523.4	1171.0	633.5	569.5	537.4	523.2	519.6	523.2	523.2	523.2
27.5°	3466.6	2512.8	1028.6	587.3	526.8	494.7	480.5	476.9	484.0	487.6	487.6
30°	3587.6	2498.5	914.7	544.5	491.2	459.1	444.9	444.9	455.6	469.8	469.8
32.5°	3705.1	2509.2	825.7	509.0	455.6	430.7	416.4	420.0	441.3	462.7	462.7
35°	3829.6	2530.6	772.3	484.0	430.7	405.7	395.1	405.7	427.1	448.5	448.5
37.5°	3954.2	2555.5	740.3	462.7	409.3	384.4	377.3	391.5	416.4	437.8	441.3
40°	4085.9	2576.8	704.7	441.3	395.1	366.6	363.0	377.3	409.3	430.7	434.2
42.5°	4249.6	2619.5	662.0	423.5	380.8	345.2	348.8	359.5	391.5	423.5	427.1
45°	4569.9	2754.8	619.3	405.7	363.0	334.6	327.4	334.6	370.2	405.7	412.9
47.5°	5171.4	3060.9	573.0	387.9	345.2	327.4	299.0	306.1	338.1	377.3	380.8
50°	6324.6	3712.2	548.1	370.2	331.0	302.5	270.5	270.5	295.4	331.0	331.0
52.5°	8122.0	4879.6	562.3	355.9	313.2	277.6	245.6	242.0	256.3	281.2	281.2
55°	10061.7	6160.9	615.7	341.7	291.8	263.4	227.8	210.0	220.7	234.9	234.9
57.5°	11599.3	6805.1	761.7	334.6	266.9	252.7	206.4	181.5	192.2	206.4	206.4
60°	12275.5	6427.8	925.4	341.7	249.1	234.9	185.1	160.2	178.0	192.2	195.8
62.5°	11727.4	5292.5	993.0	323.9	224.2	210.0	181.5	149.5	170.8	181.5	185.1
65°	10542.2	4021.8	775.9	281.2	206.4	181.5	163.7	142.4	160.2	170.8	170.8
66°	9979.8	3505.8	662.0	259.8	199.3	170.8	156.6	142.4	156.6	163.7	167.3
67.5°	9107.9	2765.5	491.2	227.8	185.1	156.6	145.9	135.2	149.5	156.6	156.6
70°	7121.9	1647.9	295.4	178.0	160.2	138.8	131.7	124.6	135.2	138.8	138.8
72.5°	4459.6	783.0	188.6	131.7	135.2	131.7	110.3	117.5	121.0	124.6	124.6
75°	2160.4	309.6	128.1	96.1	110.3	124.6	89.0	103.2	106.8	113.9	110.3
77.5°	601.5	149.5	81.9	71.2	96.1	96.1	67.6	81.9	96.1	121.0	110.3
80°	174.4	96.1	53.4	53.4	67.6	67.6	46.3	56.9	64.1	71.2	74.7
82.5°	121.0	64.1	35.6	39.2	39.2	42.7	28.5	28.5	35.6	35.6	39.2
85°	96.1	28.5	21.4	24.9	17.8	21.4	14.2	14.2	17.8	14.2	14.2
87.5°	39.2	14.2	14.2	14.2	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)