

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: P1211044

Luminaire Tested: **ARCH4-150-740-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211044
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: ARCH4-150-740-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1230mA 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: 18001 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 150.8
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



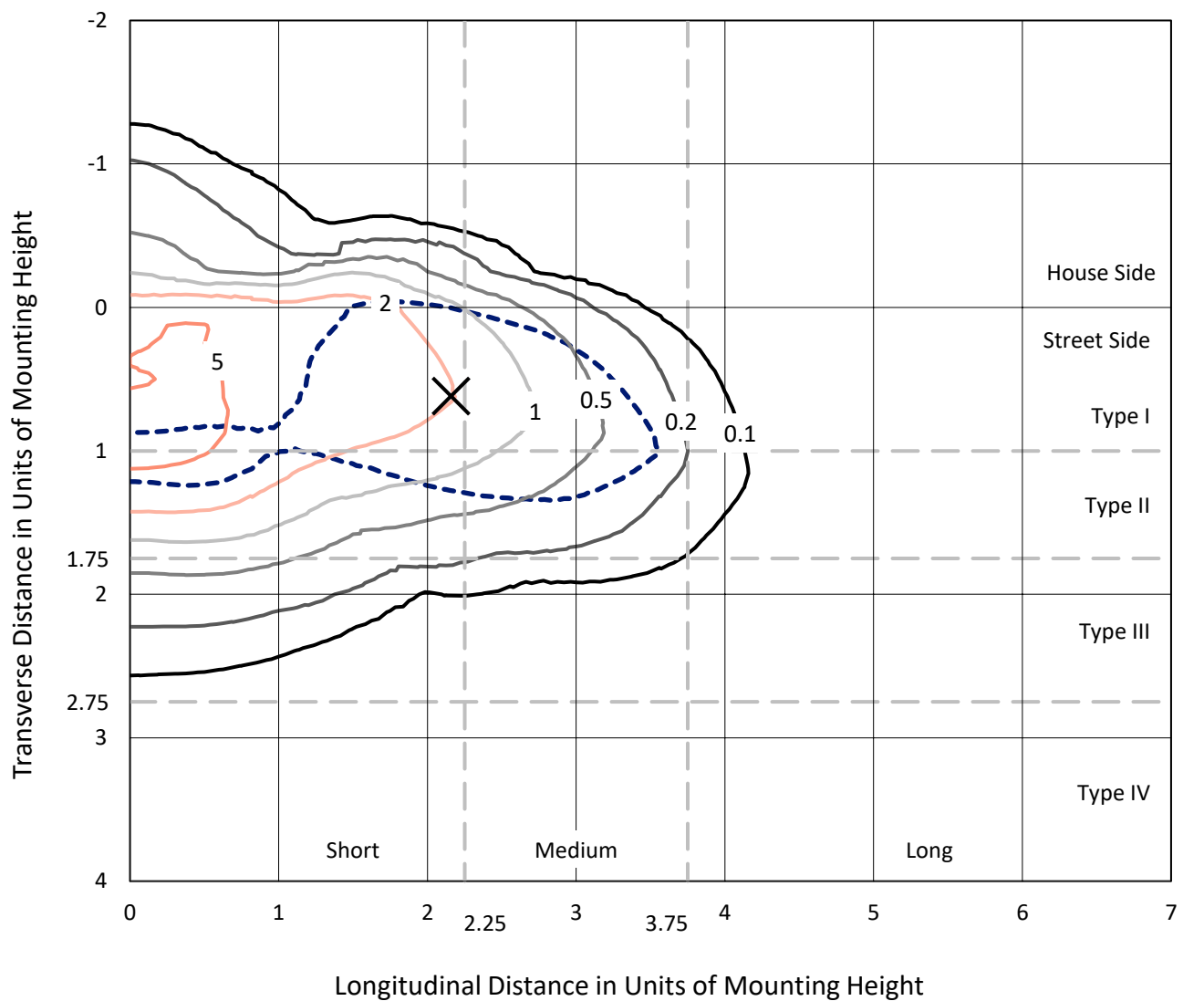
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Iso-Footcandle Lines of Horizontal Illumination

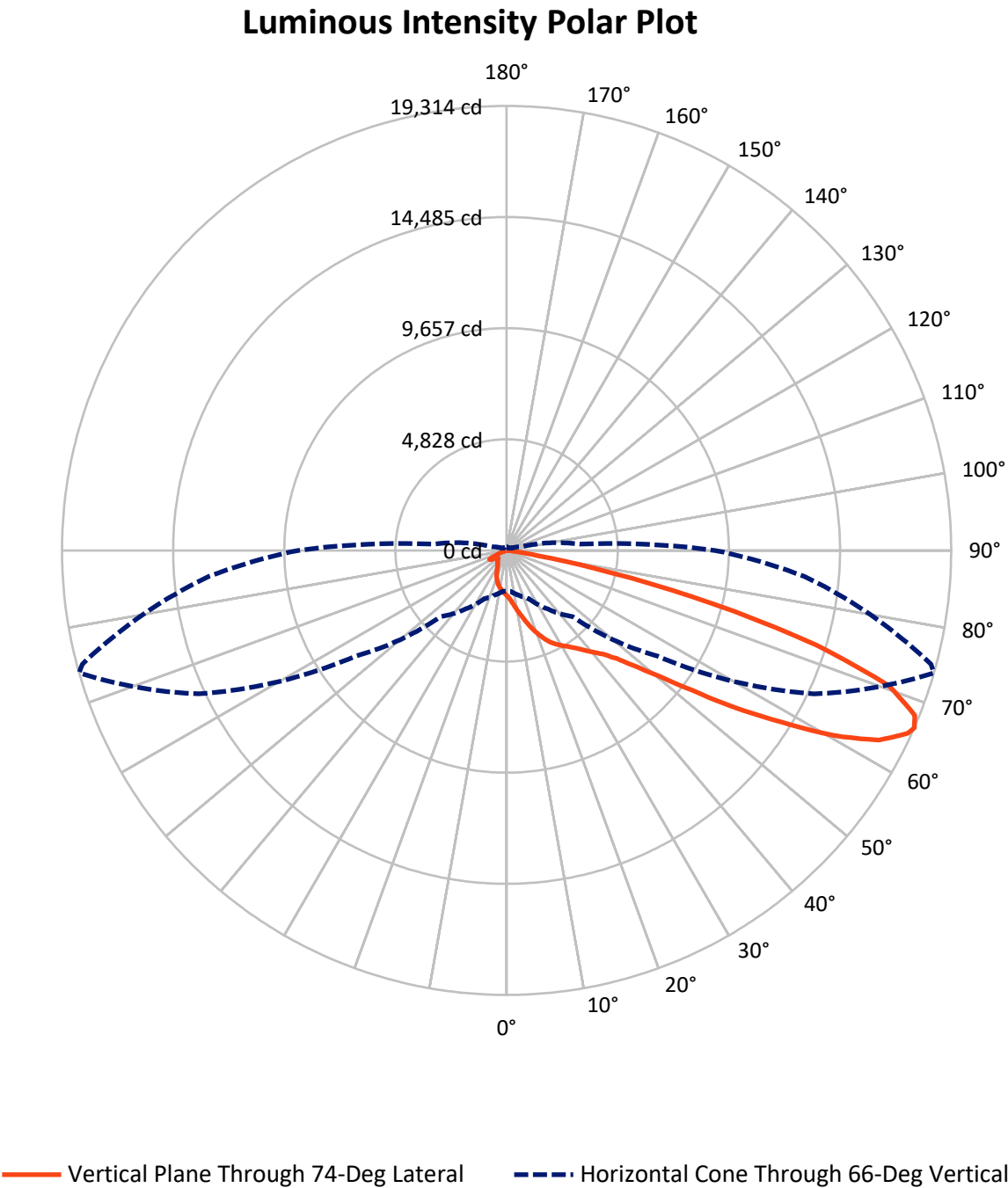
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1764.7	0.0	1764.7
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	16236.3	0.0	16236.3
	% Fixture	90.2	0.0	90.2
Total	Lumens	18001.0	0.0	18001.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.8	1.1
10°-20°	614.9	3.4
20°-30°	1173.4	6.5
30°-40°	2056.7	11.4
40°-50°	3526.7	19.6
50°-60°	4586.8	25.5
60°-70°	4152.2	23.1
70°-80°	1602.1	8.9
80°-90°	96.4	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°	18001.0	100.0
0°-180°	18001.0	100.0

Coefficient of Utilization



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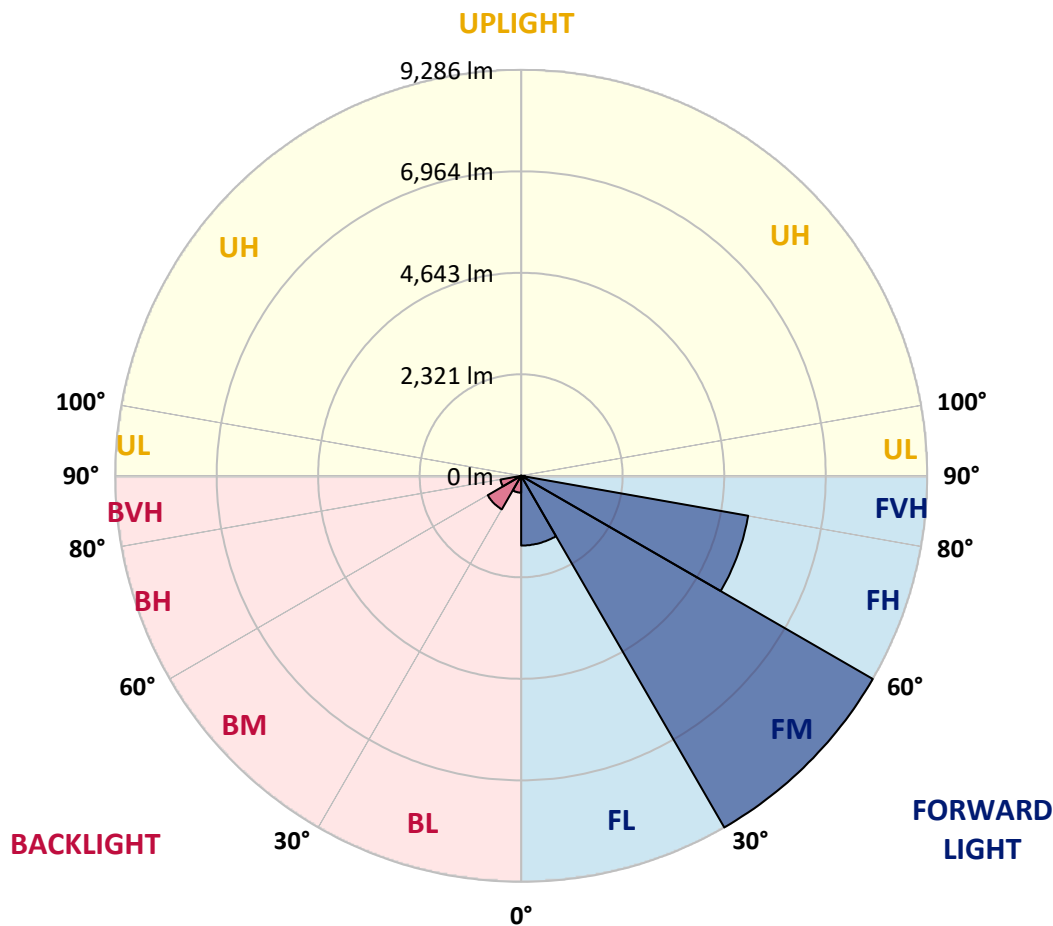
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1595.2	8.9			
FM	(30°-60°)	9285.8	51.6			
FH	(60°-80°)	5271.9	29.3			G3/7500
FVH	(80°-90°)	83.5	0.5			G1/100
BL	(0°-30°)	384.9	2.1	B1/500		
BM	(30°-60°)	884.4	4.9	B1/1000		
BH	(60°-80°)	482.4	2.7	B1/500		G1/500
BVH	(80°-90°)	12.9	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1965.0	1965.0	1965.0	1965.0	1965.0	1965.0	1965.0	1965.0	1965.0	1965.0	1965.0
2.5°	2359.3	2339.9	2304.3	2301.1	2272.0	2236.4	2175.0	2110.4	2065.2	2058.7	2003.7
5°	2824.6	2814.9	2779.4	2756.8	2701.8	2617.8	2475.6	2333.4	2213.8	2200.9	2078.1
7.5°	2947.4	2953.9	2960.4	2983.0	2963.6	2924.8	2818.2	2617.8	2430.4	2401.3	2188.0
10°	2966.8	2960.4	2960.4	2989.5	3044.4	3099.3	3086.4	2915.1	2672.7	2637.2	2339.9
12.5°	3176.9	3186.6	3164.0	3151.1	3141.4	3170.4	3267.4	3193.1	2928.1	2899.0	2524.1
15°	3448.4	3445.2	3412.8	3412.8	3383.7	3335.3	3396.7	3451.6	3235.1	3199.5	2734.1
17.5°	3645.5	3658.5	3655.2	3674.6	3664.9	3600.3	3568.0	3681.1	3551.8	3506.6	2973.3
20°	3803.9	3839.4	3852.4	3913.8	3942.9	3897.6	3813.6	3884.7	3855.6	3813.6	3215.7
22.5°	3971.9	4001.0	4023.7	4130.3	4211.1	4201.4	4094.8	4078.6	4149.7	4110.9	3454.8
25°	4140.0	4152.9	4220.8	4350.1	4479.3	4511.7	4401.8	4275.7	4414.7	4379.2	3668.1
27.5°	4324.2	4330.7	4411.5	4569.8	4750.8	4818.7	4731.4	4498.7	4618.3	4618.3	3862.1
30°	4660.3	4725.0	4757.3	4899.5	5057.8	5151.6	5048.1	4734.7	4799.3	4828.4	4065.7
32.5°	5384.3	5394.0	5384.3	5445.7	5478.0	5532.9	5413.3	4999.7	4983.5	5015.8	4266.0
35°	6489.6	6450.8	6347.4	6256.9	6069.4	5966.0	5810.9	5339.0	5209.7	5255.0	4463.2
37.5°	7830.8	7775.8	7539.9	7262.0	6861.2	6447.5	6253.6	5752.7	5497.4	5555.6	4676.5
40°	9110.6	9075.0	8793.9	8451.3	7766.1	7058.4	6647.9	6101.7	5817.3	5840.0	4893.0
42.5°	10164.2	10157.7	9921.8	9563.0	8684.0	7717.7	7113.3	6444.3	6153.4	6189.0	5119.3
45°	10962.4	10901.0	10726.5	10468.0	9572.7	8402.8	7675.6	6964.6	6693.2	6735.2	5458.6
47.5°	10962.4	10972.1	11085.2	11059.4	10193.3	9045.9	8289.7	7620.7	7491.4	7530.2	6017.7
50°	10070.4	10160.9	10665.1	11088.5	10516.4	9546.9	8952.2	8441.6	8574.1	8632.3	6993.7
52.5°	8305.9	8457.8	9333.6	10299.9	10277.3	9799.0	9637.4	9485.5	10080.1	10183.6	8435.1
55°	6311.8	6412.0	7552.8	8823.0	9236.6	9592.1	10235.3	10810.5	12074.2	12051.6	9899.2
57.5°	4715.3	4809.0	5791.5	7200.6	7746.7	8696.9	10542.3	12326.3	14052.1	14139.3	11272.7
60°	3467.8	3538.9	4375.9	5532.9	6321.5	7326.6	10419.5	13819.4	16330.5	16230.4	12484.6
62.5°	2566.1	2604.9	3209.2	3962.2	5009.4	5969.2	9647.1	14840.7	18150.1	17946.5	13160.1
65°	1984.4	1997.3	2310.8	2711.5	3642.3	4640.9	8496.5	14995.8	19155.2	18938.6	13147.2
66°	1767.8	1777.5	2007.0	2317.2	3099.3	4062.4	7992.4	14746.9	19313.5	19084.1	12985.6
67.5°	1483.4	1477.0	1612.7	1816.3	2326.9	3134.9	7097.1	14019.8	19126.1	19009.7	12468.5
70°	1098.8	1102.1	1169.9	1218.4	1360.6	1735.5	5125.7	12161.5	17626.5	17620.0	11049.7
72.5°	814.4	824.1	875.8	885.5	850.0	940.5	2953.9	9672.9	14100.6	14103.8	8260.6
75°	610.8	627.0	643.1	649.6	617.3	594.7	1334.8	6508.9	9275.4	9207.5	4676.5
77.5°	465.4	471.9	484.8	475.1	468.6	410.4	555.9	3173.7	4579.5	4172.3	1515.7
80°	339.3	339.3	352.3	339.3	336.1	294.1	303.8	1018.0	1344.4	1118.2	326.4
82.5°	213.3	210.1	219.8	216.5	210.1	187.4	177.8	284.4	310.3	277.9	158.4
85°	119.6	116.3	113.1	109.9	100.2	84.0	97.0	106.7	142.2	145.4	113.1
87.5°	42.0	42.0	38.8	35.6	29.1	29.1	35.6	35.6	51.7	51.7	58.2
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°	1965.0	1965.0	1965.0	1965.0	1965.0	1965.0	1965.0	1965.0	1965.0	1965.0	1965.0
2.5°	1977.9	1942.3	1890.6	1822.8	1774.3	1725.8	1674.1	1645.0	1603.0	1593.3	1606.2
5°	2013.4	1948.8	1819.5	1677.3	1554.5	1444.6	1341.2	1279.8	1218.4	1195.8	1205.5
7.5°	2087.8	1977.9	1758.1	1528.7	1325.1	1160.2	1037.4	966.3	911.4	888.8	895.2
10°	2197.7	2029.6	1700.0	1360.6	1098.8	924.3	820.9	775.6	743.3	730.4	733.6
12.5°	2330.2	2103.9	1625.6	1192.6	904.9	753.0	704.5	694.8	688.4	681.9	685.2
15°	2478.8	2168.6	1538.4	1027.7	753.0	669.0	652.8	649.6	646.4	646.4	646.4
17.5°	2634.0	2226.7	1441.4	872.6	656.1	617.3	607.6	607.6	607.6	610.8	610.8
20°	2779.4	2272.0	1328.3	733.6	601.1	568.8	562.3	562.3	565.6	568.8	568.8
22.5°	2921.6	2291.4	1195.8	636.7	555.9	526.8	517.1	517.1	517.1	520.3	520.3
25°	3044.4	2291.4	1063.3	575.3	517.1	488.0	475.1	471.9	475.1	475.1	475.1
27.5°	3147.8	2281.7	934.0	533.3	478.3	449.2	436.3	433.1	439.5	442.8	442.8
30°	3257.7	2268.8	830.6	494.5	446.0	416.9	404.0	404.0	413.7	426.6	426.6
32.5°	3364.4	2278.5	749.8	462.2	413.7	391.1	378.1	381.4	400.7	420.1	420.1
35°	3477.5	2297.8	701.3	439.5	391.1	368.4	358.7	368.4	387.8	407.2	407.2
37.5°	3590.6	2320.5	672.2	420.1	371.7	349.0	342.6	355.5	378.1	397.5	400.7
40°	3710.2	2339.9	639.9	400.7	358.7	332.9	329.6	342.6	371.7	391.1	394.3
42.5°	3858.8	2378.6	601.1	384.6	345.8	313.5	316.7	326.4	355.5	384.6	387.8
45°	4149.7	2501.5	562.3	368.4	329.6	303.8	297.3	303.8	336.1	368.4	374.9
47.5°	4695.9	2779.4	520.3	352.3	313.5	297.3	271.5	277.9	307.0	342.6	345.8
50°	5743.0	3370.8	497.7	336.1	300.6	274.7	245.6	245.6	268.2	300.6	300.6
52.5°	7375.1	4430.9	510.6	323.2	284.4	252.1	223.0	219.8	232.7	255.3	255.3
55°	9136.4	5594.3	559.1	310.3	265.0	239.2	206.8	190.7	200.4	213.3	213.3
57.5°	10532.6	6179.3	691.6	303.8	242.4	229.5	187.4	164.8	174.5	187.4	187.4
60°	11146.7	5836.7	840.3	310.3	226.2	213.3	168.1	145.4	161.6	174.5	177.8
62.5°	10648.9	4805.8	901.7	294.1	203.6	190.7	164.8	135.7	155.1	164.8	168.1
65°	9572.7	3652.0	704.5	255.3	187.4	164.8	148.7	129.3	145.4	155.1	155.1
66°	9062.1	3183.4	601.1	235.9	181.0	155.1	142.2	129.3	142.2	148.7	151.9
67.5°	8270.3	2511.1	446.0	206.8	168.1	142.2	132.5	122.8	135.7	142.2	142.2
70°	6466.9	1496.3	268.2	161.6	145.4	126.0	119.6	113.1	122.8	126.0	126.0
72.5°	4049.5	711.0	171.3	119.6	122.8	119.6	100.2	106.7	109.9	113.1	113.1
75°	1961.7	281.2	116.3	87.3	100.2	113.1	80.8	93.7	97.0	103.4	100.2
77.5°	546.2	135.7	74.3	64.6	87.3	87.3	61.4	74.3	87.3	109.9	100.2
80°	158.4	87.3	48.5	48.5	61.4	61.4	42.0	51.7	58.2	64.6	67.9
82.5°	109.9	58.2	32.3	35.6	35.6	38.8	25.9	25.9	32.3	32.3	35.6
85°	87.3	25.9	19.4	22.6	16.2	19.4	12.9	12.9	16.2	12.9	12.9
87.5°	35.6	12.9	12.9	12.9	9.7	9.7	6.5	3.2	3.2	3.2	3.2
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)