

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: P836213

Luminaire Tested: **ARCH3-150-750-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-150-750-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15251 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

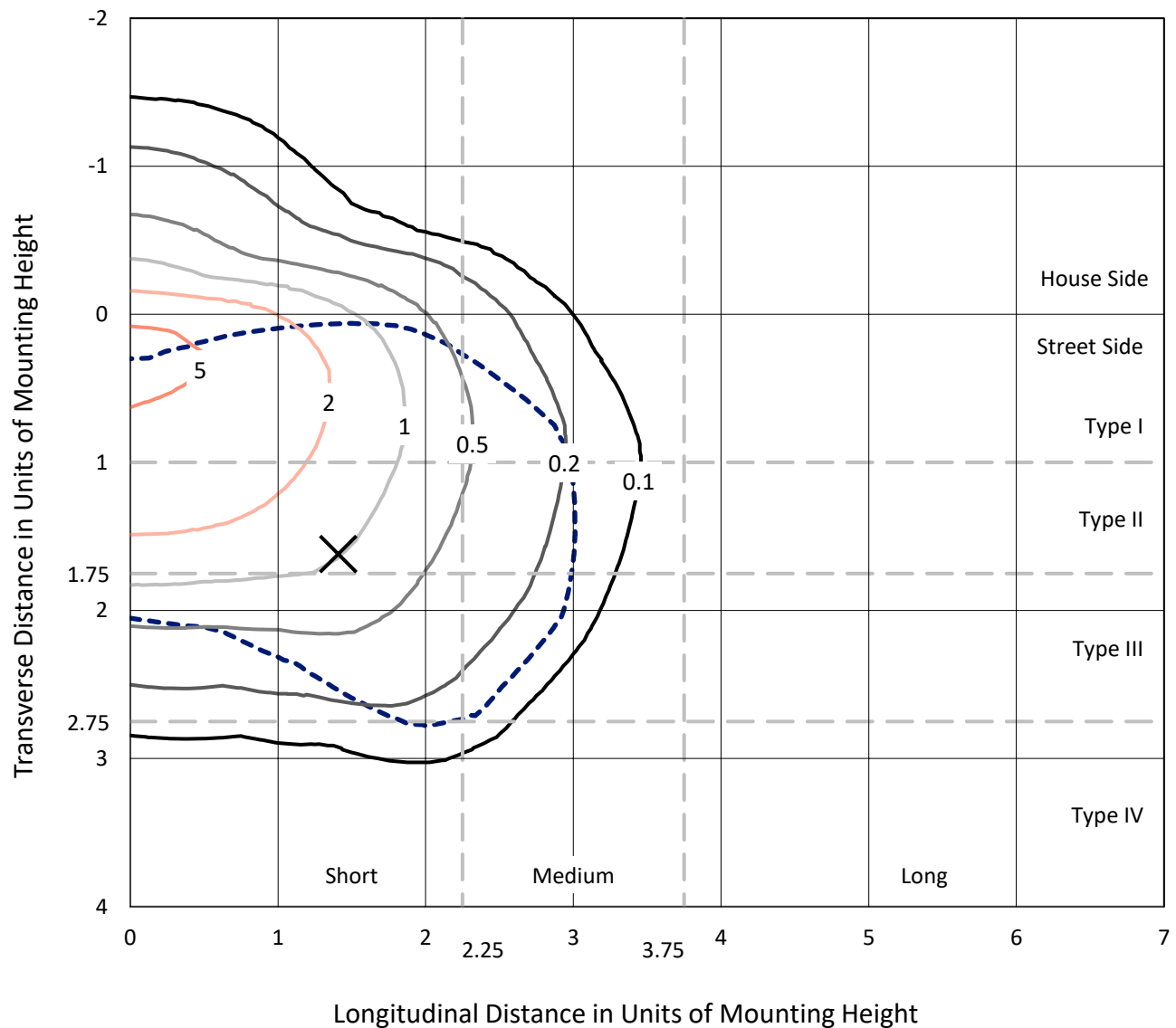
Input Watts (W): 150.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

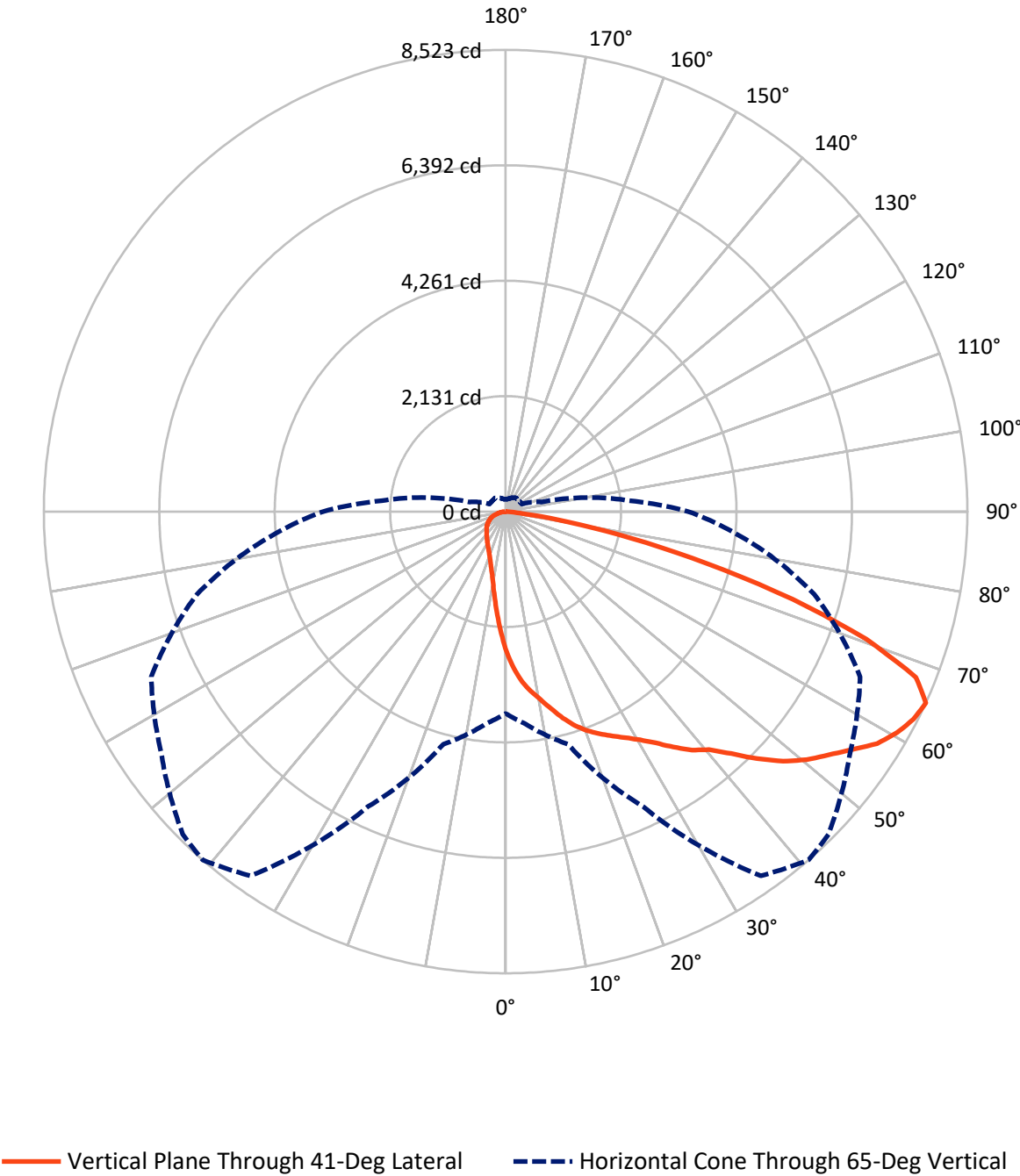
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1958.0	0.0	1958.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	13293.0	0.0	13293.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	15251.0	0.0	15251.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.1	1.6
10°-20°	726.0	4.8
20°-30°	1249.1	8.2
30°-40°	1894.4	12.4
40°-50°	2775.3	18.2
50°-60°	3504.6	23.0
60°-70°	3286.2	21.5
70°-80°	1464.7	9.6
80°-90°	108.5	0.7
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°	15251.0	100.0
0°-180°	15251.0	100.0

Coefficient of Utilization



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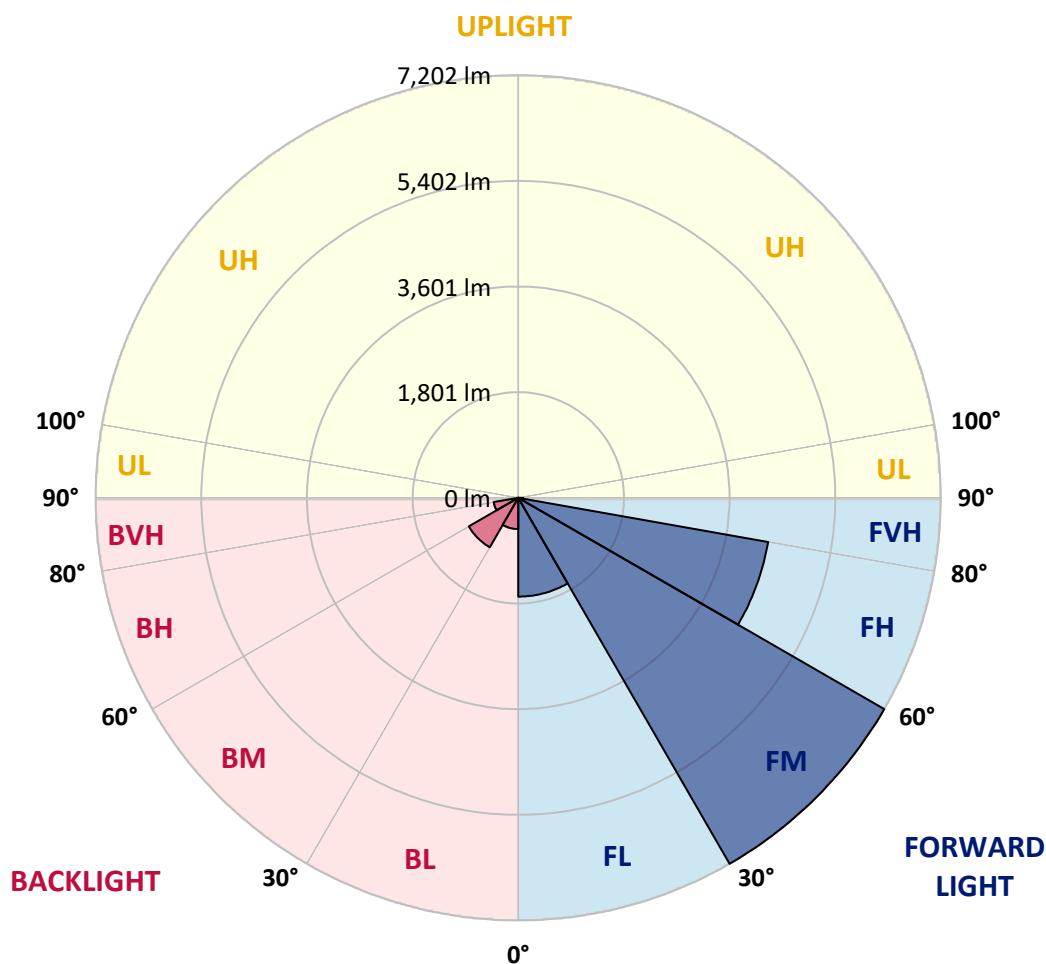
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1684.3	11.0			
FM	(30°-60°)	7202.1	47.2			
FH	(60°-80°)	4325.6	28.4			G2/5000
FVH	(80°-90°)	81.0	0.5			G1/100
BL	(0°-30°)	532.9	3.5	B2/1000		
BM	(30°-60°)	972.2	6.4	B1/1000		
BH	(60°-80°)	425.3	2.8	B1/500		G1/500
BVH	(80°-90°)	27.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2598.7	2598.7	2598.7	2598.7	2598.7	2598.7	2598.7	2598.7	2598.7	2598.7	2598.7
2.5°	2997.5	2987.9	2981.4	2946.0	2946.0	2897.8	2901.0	2856.0	2801.3	2714.5	2621.2
5°	3280.5	3267.7	3251.6	3216.2	3203.3	3155.1	3148.7	3084.3	2991.1	2839.9	2672.7
7.5°	3528.2	3515.3	3492.8	3441.3	3406.0	3348.1	3332.0	3248.4	3145.4	2958.9	2724.1
10°	3753.3	3743.7	3714.7	3650.4	3602.1	3531.4	3502.4	3389.9	3261.2	3055.4	2765.9
12.5°	3981.7	3968.8	3930.2	3875.5	3817.6	3734.0	3698.6	3553.9	3389.9	3161.5	2827.0
15°	4193.9	4174.6	4145.7	4087.8	4036.3	3955.9	3917.3	3746.9	3547.5	3280.5	2907.4
17.5°	4332.2	4316.1	4290.4	4258.3	4216.4	4155.3	4116.7	3949.5	3705.1	3396.3	2991.1
20°	4415.8	4409.4	4399.8	4380.5	4361.2	4319.4	4290.4	4132.8	3875.5	3508.9	3071.5
22.5°	4480.2	4473.7	4470.5	4470.5	4473.7	4457.7	4438.4	4303.3	4039.5	3627.9	3145.4
25°	4579.9	4576.7	4570.2	4563.8	4586.3	4589.5	4583.1	4489.8	4245.4	3785.5	3238.7
27.5°	4718.2	4708.5	4695.7	4689.2	4711.7	4727.8	4740.7	4676.4	4464.1	3946.3	3344.8
30°	4930.4	4901.5	4869.3	4846.8	4862.9	4888.6	4917.6	4879.0	4689.2	4145.7	3454.2
32.5°	5181.3	5145.9	5071.9	5030.1	5071.9	5091.2	5113.8	5094.5	4924.0	4361.2	3563.6
35°	5486.8	5445.0	5367.8	5306.7	5380.7	5338.9	5329.2	5309.9	5145.9	4573.4	3685.8
37.5°	5995.0	5933.9	5811.7	5676.6	5676.6	5586.5	5551.2	5493.3	5345.3	4763.2	3804.8
40°	6583.6	6503.2	6345.6	6146.2	5962.8	5776.3	5753.8	5712.0	5580.1	4981.9	3939.8
42.5°	7230.0	7075.6	6856.9	6615.7	6319.8	6107.6	6056.1	5937.1	5808.5	5203.8	4074.9
45°	7947.2	7625.6	7307.2	7185.0	6696.1	6503.2	6406.7	6191.2	6046.5	5435.4	4216.4
47.5°	8063.0	7812.2	7599.9	7580.6	7046.7	6885.9	6776.5	6467.8	6303.8	5683.0	4364.4
50°	7998.7	7847.5	7870.0	7792.9	7304.0	7197.9	7114.2	6763.7	6557.8	5921.0	4499.5
52.5°	7728.5	7812.2	7940.8	7799.3	7548.4	7461.6	7419.8	7082.1	6795.8	6139.7	4621.7
55°	7406.9	7464.8	7741.4	7915.1	7831.5	7754.3	7715.7	7451.9	7030.6	6323.1	4734.2
57.5°	6937.3	6911.6	7217.2	7895.8	8127.3	8082.3	8040.5	7815.4	7249.3	6454.9	4805.0
60°	6233.0	6178.3	6564.3	7509.8	8223.8	8294.6	8275.3	8056.6	7416.6	6451.7	4776.1
62.5°	5014.1	5149.1	5683.0	6879.5	8265.6	8445.7	8410.4	8075.9	7471.2	6265.2	4592.7
65°	3727.6	3920.5	4444.8	6011.1	8207.7	8522.9	8426.4	7760.7	7217.2	5895.3	4190.7
67.5°	2685.5	2856.0	3238.7	4946.5	7651.3	8169.2	8056.6	7246.1	6631.8	5371.1	3634.3
70°	1836.5	1958.7	2219.2	3602.1	6532.1	7062.8	6992.0	6477.4	5708.8	4747.1	2952.5
72.5°	1296.1	1347.6	1514.8	2376.8	4962.6	5541.5	5457.9	5329.2	4586.3	3946.3	2296.4
75°	971.3	1003.5	1093.5	1537.3	3348.1	3840.1	3763.0	3836.9	3425.3	2987.9	1672.4
77.5°	366.6	398.8	620.7	980.9	1981.2	2357.5	2280.3	2325.3	1904.0	1508.4	833.0
80°	99.7	106.1	205.8	466.3	900.5	1173.9	1067.8	916.6	707.6	694.7	440.6
82.5°	41.8	48.2	93.3	250.9	321.6	321.6	270.2	334.5	270.2	324.8	212.3
85°	16.1	19.3	22.5	64.3	41.8	45.0	48.2	64.3	54.7	67.5	48.2
87.5°	0.0	0.0	0.0	3.2	3.2	6.4	3.2	6.4	9.6	9.6	9.6
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°	2598.7	2598.7	2598.7	2598.7	2598.7	2598.7	2598.7	2598.7	2598.7	2598.7	2598.7
2.5°	2582.6	2547.2	2495.8	2412.2	2325.3	2277.1	2216.0	2206.3	2142.0	2135.6	2109.8
5°	2598.7	2524.7	2392.9	2232.0	2074.4	1952.2	1862.2	1813.9	1720.7	1720.7	1694.9
7.5°	2611.6	2495.8	2283.5	2045.5	1830.0	1666.0	1543.8	1492.3	1408.7	1402.3	1383.0
10°	2614.8	2460.4	2164.5	1855.7	1592.0	1424.8	1305.8	1247.9	1173.9	1167.5	1154.6
12.5°	2640.5	2441.1	2058.4	1691.7	1421.6	1241.5	1125.7	1077.4	1019.5	1013.1	1000.2
15°	2682.3	2441.1	1968.3	1553.4	1270.4	1103.2	1003.5	958.4	916.6	910.2	903.8
17.5°	2724.1	2434.7	1878.3	1424.8	1145.0	993.8	907.0	871.6	839.4	836.2	829.8
20°	2762.7	2431.4	1788.2	1315.4	1048.5	903.8	836.2	804.1	778.3	778.3	775.1
22.5°	2801.3	2425.0	1701.4	1212.5	964.9	836.2	778.3	742.9	723.6	723.6	720.4
25°	2859.2	2425.0	1621.0	1125.7	897.3	784.8	726.9	701.1	685.1	681.8	681.8
27.5°	2926.7	2444.3	1550.2	1048.5	839.4	733.3	688.3	662.5	643.2	636.8	640.0
30°	3000.7	2460.4	1485.9	980.9	784.8	694.7	646.5	620.7	601.4	595.0	598.2
32.5°	3074.7	2479.7	1428.0	919.8	730.1	659.3	611.1	582.1	562.8	559.6	559.6
35°	3155.1	2499.0	1370.1	868.4	685.1	623.9	578.9	546.8	533.9	527.5	530.7
37.5°	3235.5	2531.2	1315.4	820.1	652.9	591.8	550.0	517.8	508.2	504.9	504.9
40°	3332.0	2579.4	1292.9	788.0	623.9	562.8	527.5	495.3	485.6	485.6	485.6
42.5°	3412.4	2618.0	1273.6	752.6	601.4	537.1	504.9	479.2	472.8	469.6	472.8
45°	3492.8	2653.4	1247.9	720.4	572.5	511.4	485.6	459.9	453.5	453.5	453.5
47.5°	3573.2	2672.7	1212.5	688.3	546.8	488.9	466.3	443.8	437.4	437.4	437.4
50°	3637.5	2688.7	1161.0	652.9	517.8	469.6	447.1	424.5	418.1	418.1	418.1
52.5°	3701.8	2692.0	1106.4	611.1	488.9	447.1	427.8	405.2	398.8	395.6	395.6
55°	3759.7	2688.7	1042.0	562.8	456.7	421.3	405.2	385.9	373.1	360.2	366.6
57.5°	3801.5	2685.5	968.1	514.6	424.5	395.6	389.2	363.4	337.7	305.5	312.0
60°	3785.5	2650.1	887.7	453.5	389.2	369.9	369.9	334.5	289.5	273.4	276.6
62.5°	3682.6	2550.4	804.1	389.2	353.8	344.1	340.9	302.3	266.9	250.9	254.1
65°	3373.8	2299.6	681.8	331.3	318.4	315.2	315.2	279.8	247.6	228.4	231.6
67.5°	2904.2	1929.7	556.4	279.8	283.0	289.5	289.5	257.3	225.1	205.8	209.1
70°	2328.5	1508.4	443.8	241.2	244.4	254.1	260.5	231.6	202.6	183.3	183.3
72.5°	1752.8	1145.0	357.0	202.6	218.7	218.7	228.4	205.8	176.9	157.6	160.8
75°	1270.4	820.1	283.0	170.5	189.8	186.5	186.5	173.7	151.2	138.3	138.3
77.5°	601.4	431.0	225.1	122.2	147.9	144.7	147.9	138.3	128.6	115.8	119.0
80°	295.9	212.3	144.7	86.8	102.9	106.1	115.8	109.4	106.1	96.5	96.5
82.5°	141.5	83.6	67.5	61.1	70.8	74.0	80.4	80.4	83.6	77.2	77.2
85°	38.6	22.5	28.9	38.6	45.0	48.2	54.7	57.9	57.9	54.7	57.9
87.5°	9.6	9.6	12.9	19.3	22.5	25.7	28.9	28.9	12.9	0.0	0.0
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)