

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: P841554

Luminaire Tested: **ARCH4-190-750-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-190-750-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21203 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 190
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



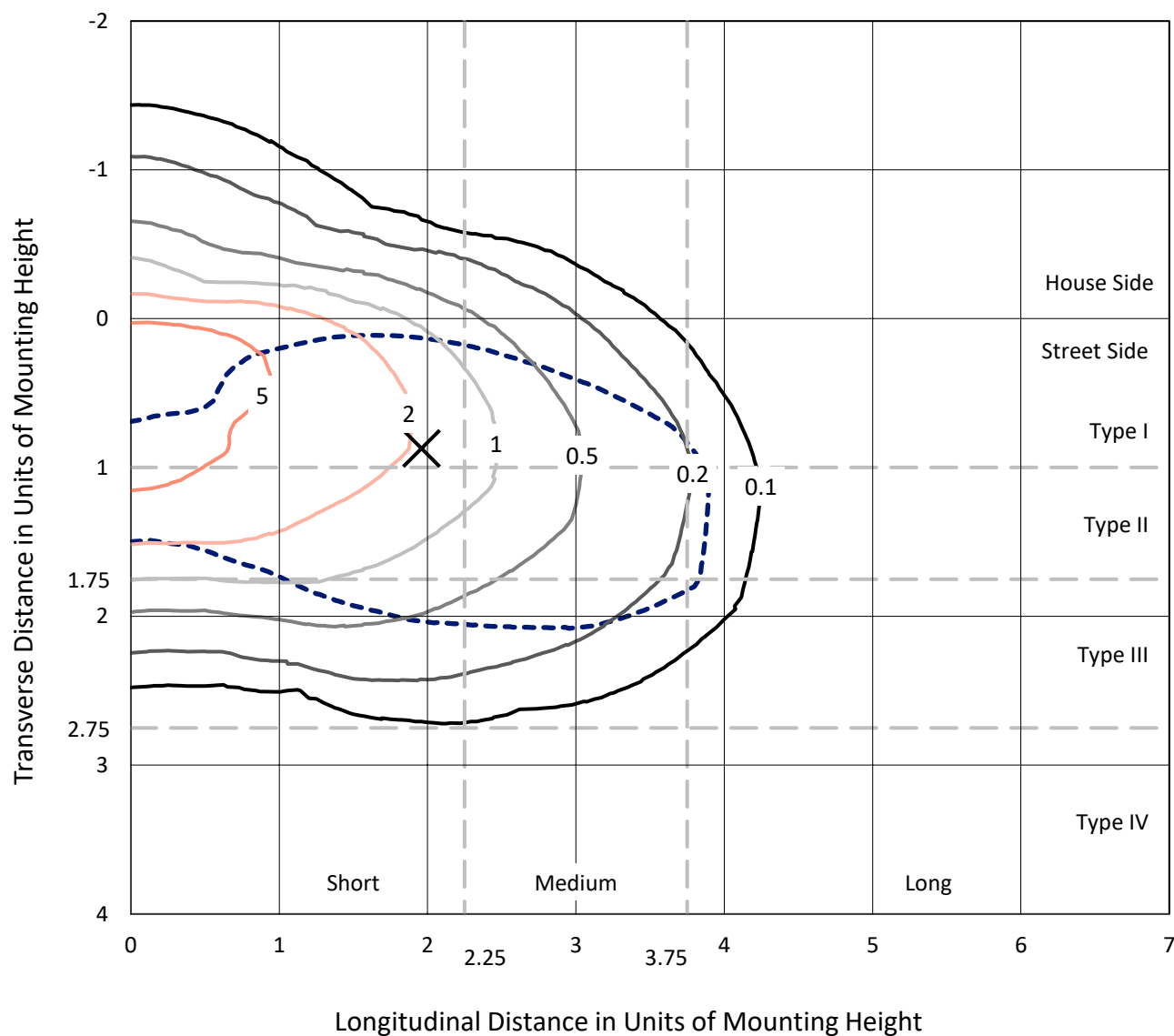
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

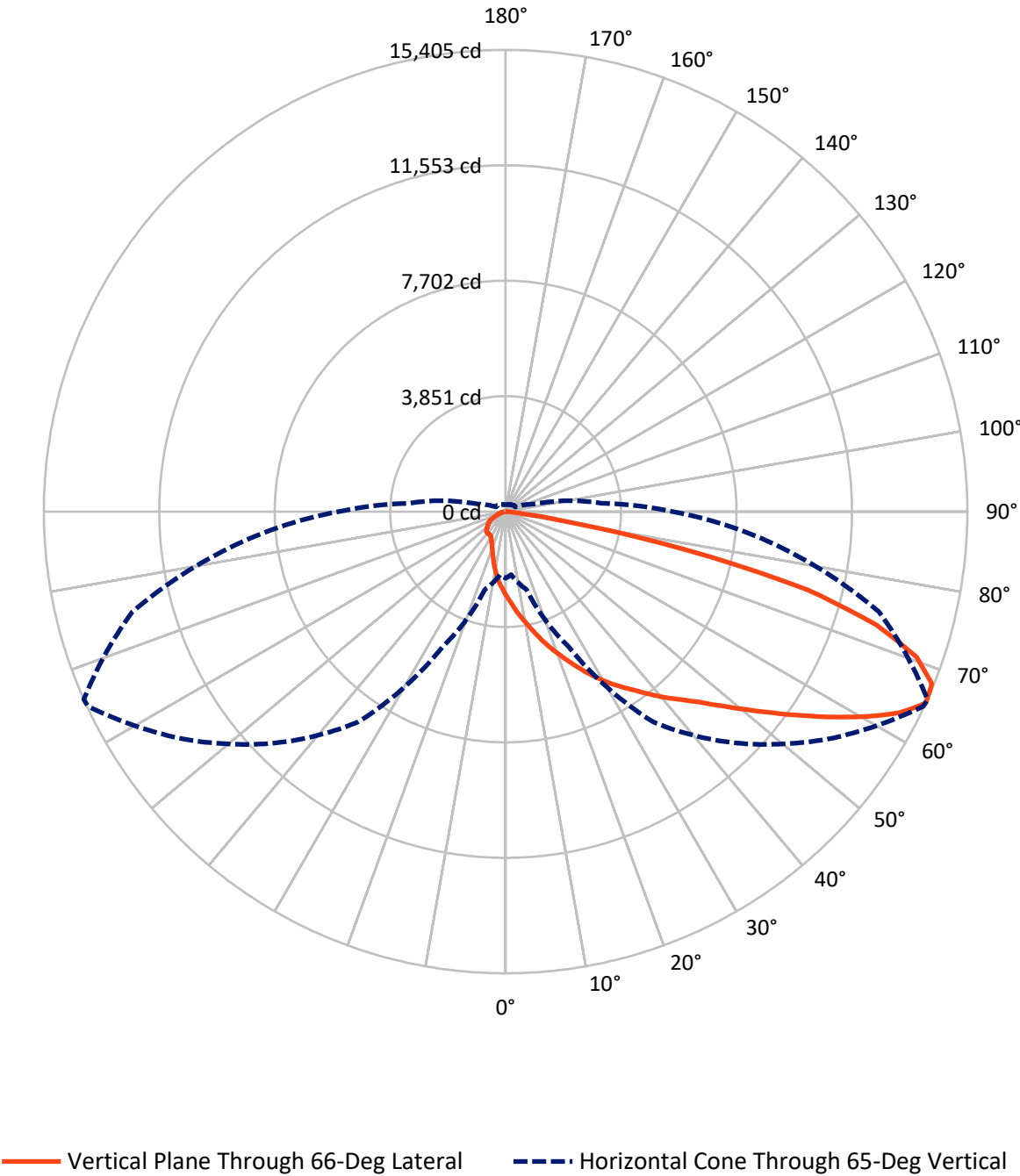


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc

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	2242.7	0.0	2242.7
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	18960.3	0.0	18960.3
	% Fixture	89.4	0.0	89.4
Total	Lumens	21203.0	0.0	21203.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.0	1.3
10°-20°	902.7	4.3
20°-30°	1633.3	7.7
30°-40°	2554.0	12.0
40°-50°	3874.4	18.3
50°-60°	4922.5	23.2
60°-70°	4599.6	21.7
70°-80°	2286.0	10.8
80°-90°	153.6	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°	21203.0	100.0
0°-180°	21203.0	100.0

Coefficient of Utilization



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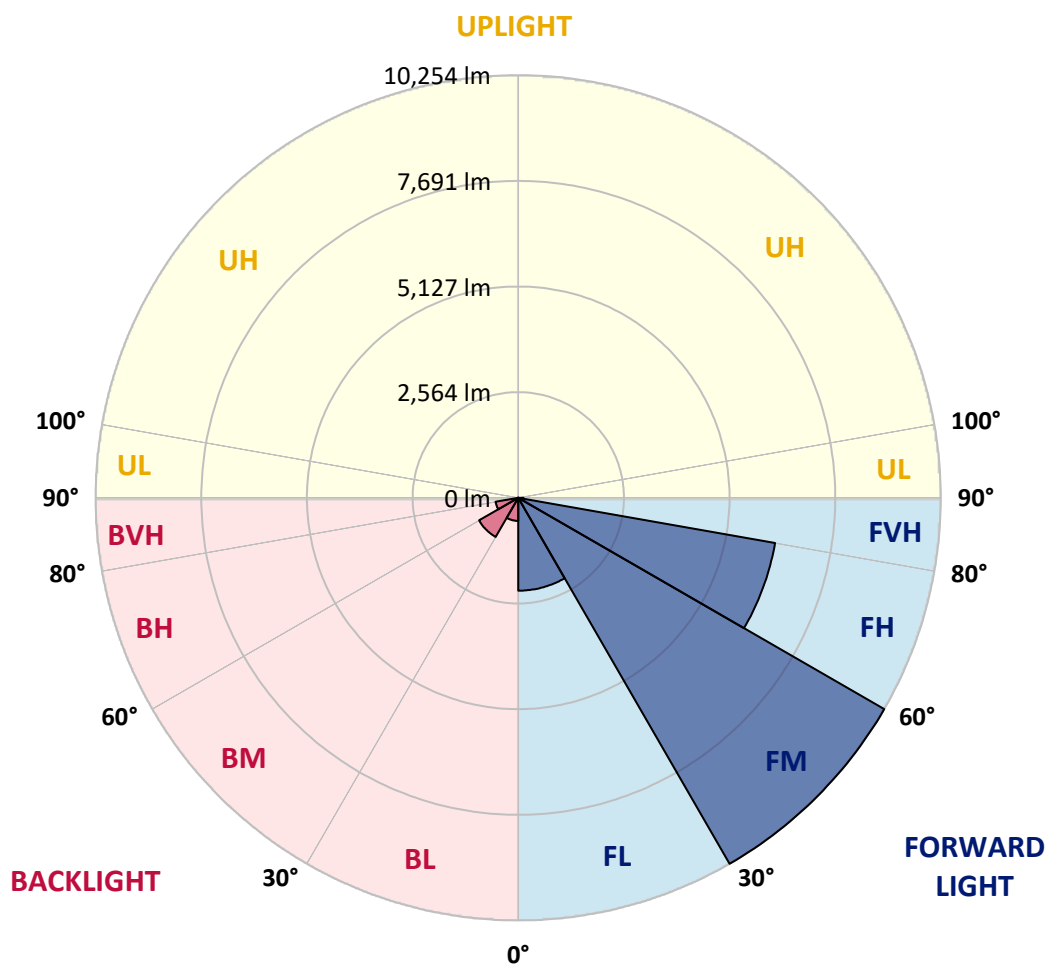
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2252.8	10.6			
FM	(30°-60°)	10254.0	48.4			
FH	(60°-80°)	6327.1	29.8			G3/7500
FVH	(80°-90°)	126.4	0.6			G2/225
BL	(0°-30°)	560.1	2.6	B2/1000		
BM	(30°-60°)	1096.9	5.2	B2/2500		
BH	(60°-80°)	558.5	2.6	B2/1000		G2/1000
BVH	(80°-90°)	27.2	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2806.1	2806.1	2806.1	2806.1	2806.1	2806.1	2806.1	2806.1	2806.1	2806.1	2806.1
2.5°	3277.5	3304.2	3317.5	3322.0	3219.7	3175.2	3130.7	3028.5	3006.2	2948.4	2872.8
5°	3855.6	3891.2	3882.3	3864.5	3740.0	3597.7	3482.1	3290.8	3259.7	3121.8	2952.9
7.5°	4424.8	4456.0	4447.1	4380.4	4242.5	4042.4	3851.2	3571.0	3526.5	3304.2	3032.9
10°	4900.7	4927.4	4922.9	4856.2	4691.7	4447.1	4215.8	3842.3	3788.9	3473.2	3099.6
12.5°	5292.0	5327.6	5323.1	5278.7	5131.9	4865.1	4602.7	4153.6	4086.9	3677.7	3193.0
15°	5598.9	5643.3	5643.3	5625.5	5523.3	5300.9	5003.0	4496.0	4415.9	3913.4	3308.6
17.5°	5785.6	5821.2	5852.3	5883.5	5812.3	5643.3	5372.1	4838.4	4753.9	4144.7	3428.7
20°	5883.5	5919.0	5941.3	6008.0	6021.3	5936.8	5723.4	5176.4	5087.4	4407.0	3566.5
22.5°	6043.6	6074.7	6079.1	6137.0	6163.6	6185.9	6052.5	5509.9	5438.8	4696.1	3722.2
25°	6310.4	6346.0	6332.6	6359.3	6363.8	6390.4	6377.1	5892.4	5821.2	5025.2	3909.0
27.5°	6652.8	6697.3	6688.4	6661.7	6621.7	6599.5	6657.3	6279.3	6212.6	5354.3	4100.2
30°	7021.9	7075.3	7061.9	7008.6	6901.9	6808.5	6888.5	6643.9	6581.7	5692.2	4313.7
32.5°	7395.5	7457.7	7453.3	7364.3	7182.0	7021.9	7142.0	6986.3	6941.9	6056.9	4544.9
35°	7640.1	7720.1	7711.2	7657.9	7422.2	7284.3	7431.1	7337.7	7306.5	6501.6	4878.4
37.5°	8035.9	8120.3	8044.7	7911.3	7640.1	7568.9	7746.8	7733.5	7711.2	6973.0	5229.8
40°	8996.4	9120.9	8920.8	8373.8	7929.1	7866.9	8120.3	8173.7	8151.5	7439.9	5545.5
42.5°	10001.5	10188.2	9876.9	9120.9	8453.9	8227.1	8529.5	8605.1	8578.4	7840.2	5830.1
45°	10610.7	10690.8	10379.5	9792.4	9383.3	8662.9	8965.3	9089.8	9067.6	8320.5	6194.8
47.5°	11108.8	11077.6	10721.9	10326.1	10401.7	9276.6	9458.9	9703.5	9685.7	8849.7	6595.0
50°	11215.5	11144.4	11002.0	10753.0	10953.1	9899.2	9979.2	10401.7	10383.9	9436.7	6999.7
52.5°	10464.0	10370.6	10757.5	10966.5	10899.8	10352.8	10552.9	11166.6	11157.7	10072.6	7386.6
55°	8587.3	8511.7	9552.3	10632.9	10842.0	10673.0	11188.8	11962.6	12011.5	10748.6	7737.9
57.5°	6755.1	6675.1	7697.9	9796.9	10628.5	10966.5	11931.5	12874.3	12936.5	11482.3	8071.4
60°	5385.4	5265.3	6048.0	8480.6	10228.3	11193.3	12647.5	13874.9	13883.8	12153.8	8276.0
62.5°	3659.9	3526.5	4393.7	6812.9	9556.8	11228.8	13198.9	14737.6	14773.2	12656.4	8311.6
65°	2223.5	2112.4	2699.4	4976.3	8565.1	10926.4	13207.8	15373.5	15404.6	12887.6	8098.1
67.5°	1289.7	1245.2	1543.1	3099.6	6919.6	10112.6	12651.9	15275.7	15333.5	12789.8	7613.4
70°	751.6	747.1	858.3	1534.2	4882.9	8498.3	11411.2	14453.0	14537.5	12278.4	6870.7
72.5°	551.4	560.3	604.8	822.7	2828.3	6119.2	9663.5	12798.7	12927.6	11277.8	5812.3
75°	435.8	440.3	480.3	560.3	1485.3	3459.8	7239.8	10272.7	10375.0	9494.5	4540.5
77.5°	324.6	333.5	364.7	395.8	689.3	1587.6	4073.5	6328.2	6159.2	5212.0	2192.4
80°	235.7	257.9	271.3	284.6	364.7	613.7	1222.9	2205.7	2188.0	2276.9	1036.2
82.5°	151.2	169.0	182.3	191.2	217.9	293.5	364.7	493.6	533.6	885.0	413.6
85°	66.7	75.6	84.5	102.3	93.4	102.3	151.2	97.8	84.5	133.4	75.6
87.5°	0.0	0.0	13.3	22.2	17.8	8.9	26.7	17.8	13.3	13.3	13.3
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°	2806.1	2806.1	2806.1	2806.1	2806.1	2806.1	2806.1	2806.1	2806.1	2806.1	2806.1
2.5°	2832.8	2783.9	2681.6	2583.7	2525.9	2450.3	2383.6	2321.4	2316.9	2299.1	2268.0
5°	2868.4	2775.0	2583.7	2401.4	2263.6	2116.8	1992.3	1894.5	1858.9	1832.2	1796.6
7.5°	2903.9	2757.2	2472.6	2205.7	1987.8	1783.3	1636.5	1503.1	1463.1	1427.5	1405.3
10°	2917.3	2726.1	2343.6	1987.8	1703.2	1485.3	1329.7	1231.8	1196.3	1178.5	1165.1
12.5°	2957.3	2708.3	2223.5	1783.3	1454.2	1254.1	1142.9	1085.1	1071.7	1058.4	1045.1
15°	3010.7	2708.3	2103.5	1583.2	1258.5	1098.4	1031.7	991.7	982.8	978.4	969.5
17.5°	3068.5	2708.3	1987.8	1414.2	1116.2	996.1	947.2	925.0	920.5	916.1	911.6
20°	3148.5	2712.7	1863.3	1267.4	1013.9	920.5	880.5	853.8	849.4	844.9	844.9
22.5°	3228.6	2721.6	1743.3	1156.2	947.2	862.7	813.8	787.1	778.2	778.2	778.2
25°	3330.9	2748.3	1632.1	1062.8	889.4	809.4	747.1	724.9	720.4	720.4	716.0
27.5°	3450.9	2779.4	1534.2	991.7	831.6	747.1	684.8	662.6	653.7	653.7	649.3
30°	3579.9	2810.5	1454.2	938.3	773.8	684.8	627.0	600.4	591.5	595.9	591.5
32.5°	3722.2	2855.0	1391.9	902.8	720.4	631.5	578.1	547.0	542.5	542.5	538.1
35°	3962.3	2979.5	1383.0	885.0	676.0	591.5	538.1	507.0	502.5	502.5	498.1
37.5°	4220.3	3121.8	1423.1	876.1	640.4	555.9	507.0	475.8	471.4	471.4	471.4
40°	4438.2	3228.6	1467.5	876.1	618.1	524.8	480.3	453.6	453.6	453.6	453.6
42.5°	4584.9	3237.5	1458.6	876.1	600.4	502.5	462.5	435.8	435.8	440.3	435.8
45°	4802.8	3281.9	1423.1	862.7	587.0	484.7	444.7	422.5	418.0	422.5	422.5
47.5°	5060.8	3362.0	1387.5	809.4	582.6	466.9	431.4	404.7	400.2	404.7	400.2
50°	5305.4	3433.1	1369.7	738.2	573.7	449.2	413.6	386.9	382.4	386.9	382.4
52.5°	5509.9	3464.3	1338.6	689.3	551.4	431.4	395.8	369.1	360.2	364.7	364.7
55°	5674.5	3455.4	1294.1	649.3	511.4	413.6	373.6	351.3	338.0	338.0	333.5
57.5°	5825.7	3459.8	1254.1	609.2	466.9	386.9	355.8	329.1	311.3	306.8	302.4
60°	5883.5	3437.6	1182.9	555.9	422.5	364.7	333.5	302.4	284.6	280.2	275.7
62.5°	5803.4	3357.5	1089.5	462.5	382.4	338.0	311.3	280.2	262.4	257.9	253.5
65°	5576.6	3206.3	947.2	364.7	346.9	306.8	284.6	262.4	240.1	231.2	226.8
67.5°	5189.7	2988.4	769.3	293.5	306.8	280.2	266.8	240.1	213.5	204.6	200.1
70°	4638.3	2699.4	578.1	249.0	271.3	249.0	240.1	213.5	191.2	182.3	177.9
72.5°	3864.5	2232.4	404.7	213.5	235.7	217.9	209.0	191.2	169.0	155.6	155.6
75°	2921.7	1600.9	266.8	182.3	195.7	186.8	173.4	160.1	146.8	137.9	133.4
77.5°	1258.5	622.6	164.5	137.9	160.1	155.6	137.9	129.0	124.5	115.6	115.6
80°	542.5	253.5	102.3	102.3	115.6	111.2	106.7	97.8	97.8	93.4	88.9
82.5°	200.1	102.3	62.3	75.6	84.5	75.6	75.6	75.6	75.6	71.2	71.2
85°	48.9	31.1	31.1	44.5	48.9	44.5	48.9	44.5	44.5	44.5	40.0
87.5°	13.3	13.3	17.8	17.8	17.8	17.8	17.8	13.3	0.0	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)