

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: P841541

Luminaire Tested: **ARCH4-190-740-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-190-740-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21757 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

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



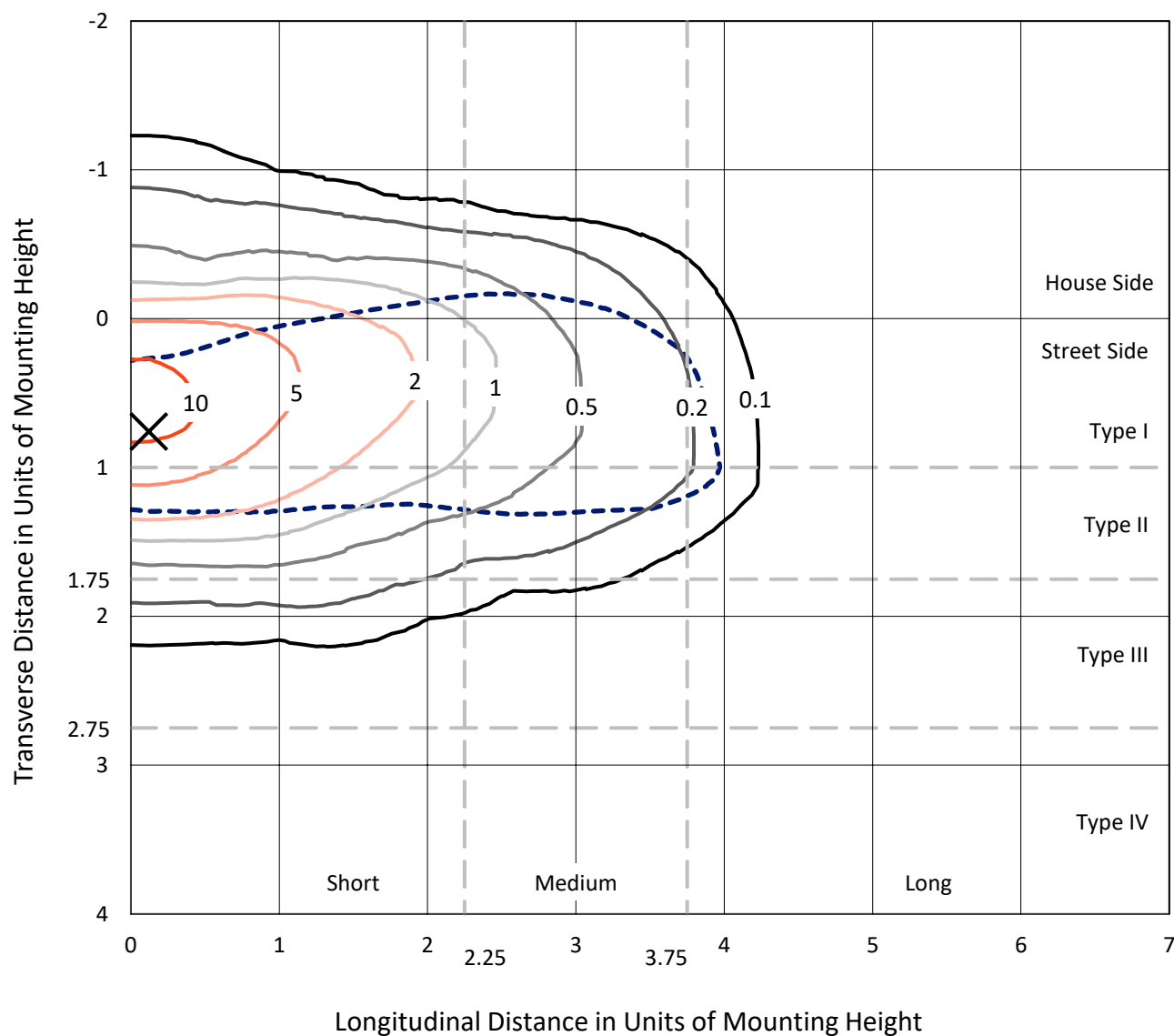
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

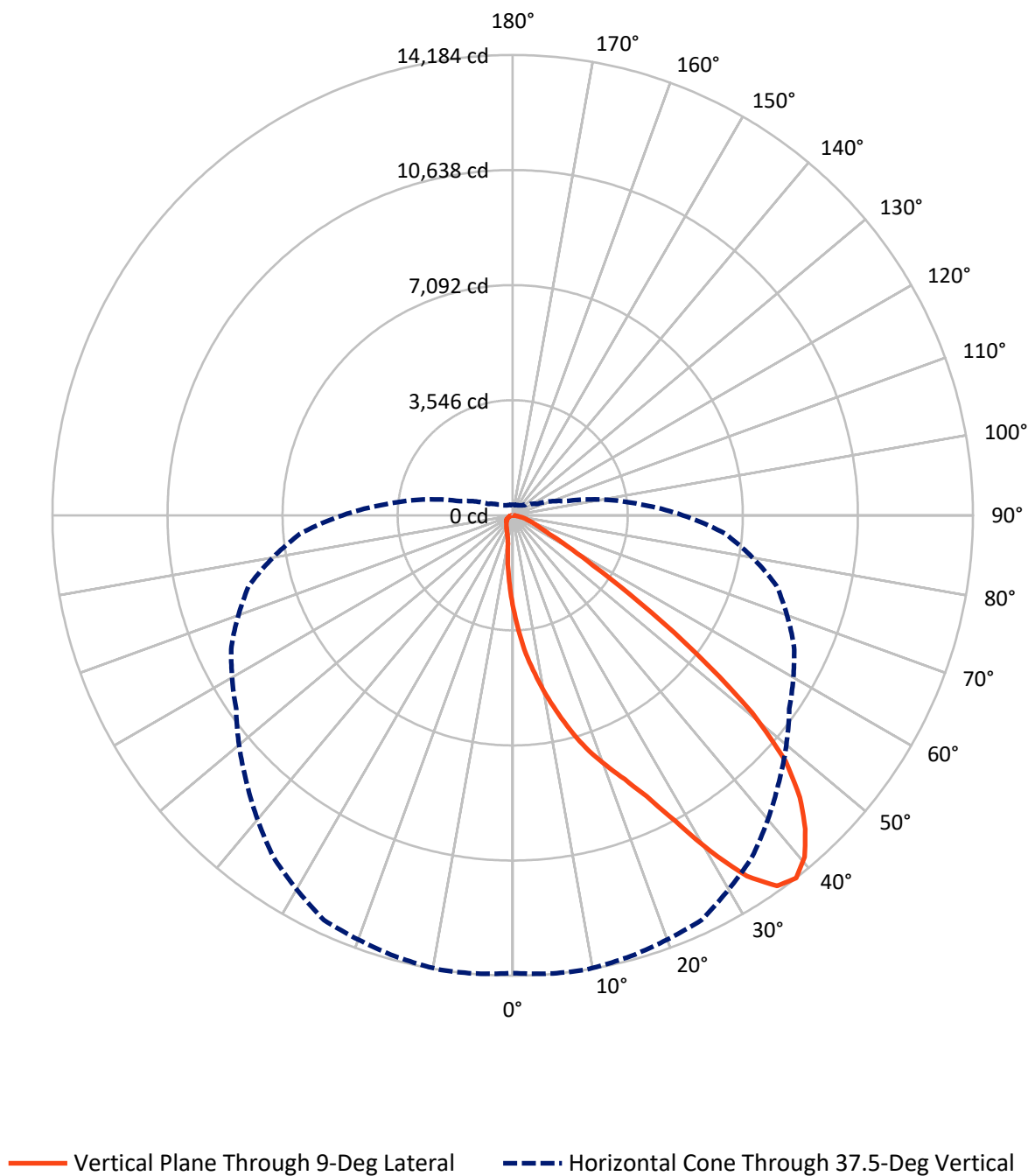


Based on 25 foot mounting height. Maximum calculated value = 12.7 fc

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	2646.0	0.0	2646.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	19111.0	0.0	19111.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	21757.0	0.0	21757.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.1	1.3
10°-20°	1004.8	4.6
20°-30°	2064.6	9.5
30°-40°	3649.2	16.8
40°-50°	4847.7	22.3
50°-60°	4597.7	21.1
60°-70°	3507.7	16.1
70°-80°	1700.5	7.8
80°-90°	95.7	0.4
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°	21757.0	100.0
0°-180°	21757.0	100.0

Coefficient of Utilization



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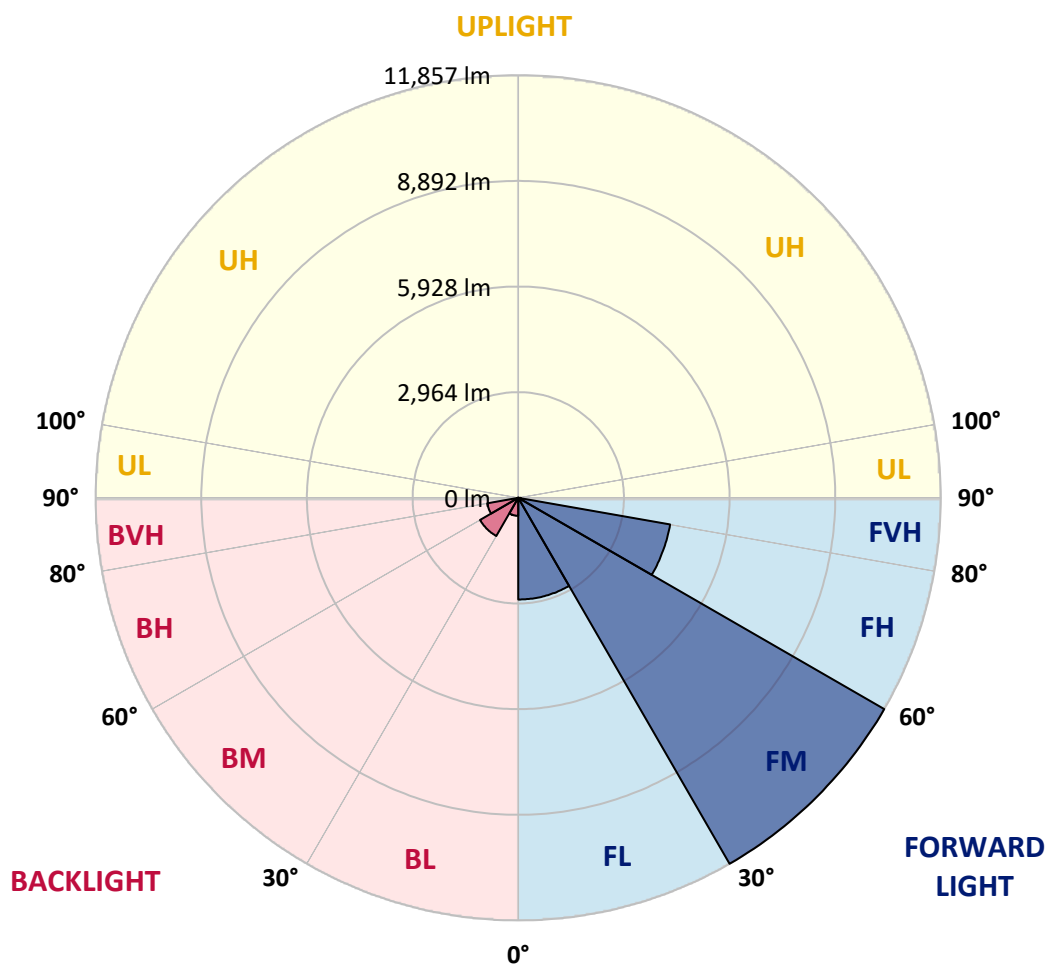
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2853.4	13.1			
FM	(30°-60°)	11856.5	54.5			
FH	(60°-80°)	4325.2	19.9			G2/5000
FVH	(80°-90°)	75.8	0.3			G1/100
BL	(0°-30°)	505.0	2.3	B2/1000		
BM	(30°-60°)	1238.2	5.7	B2/2500		
BH	(60°-80°)	883.0	4.1	B2/1000		G2/1000
BVH	(80°-90°)	19.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2876.0	2876.0	2876.0	2876.0	2876.0	2876.0	2876.0	2876.0	2876.0	2876.0	2876.0
2.5°	3563.8	3501.2	3572.7	3563.8	3501.2	3461.0	3336.0	3295.8	3148.4	3041.2	2947.5
5°	4296.2	4233.6	4296.2	4278.3	4189.0	4090.7	3885.3	3751.3	3487.8	3255.6	3045.7
7.5°	4903.5	4903.5	4930.3	4934.8	4827.6	4675.8	4421.2	4220.2	3849.6	3492.3	3157.4
10°	5560.0	5564.5	5622.5	5582.3	5439.4	5234.0	4912.4	4657.9	4211.3	3742.4	3264.5
12.5°	6261.1	6265.6	6283.5	6265.6	6095.9	5832.4	5443.9	5108.9	4595.4	4028.2	3411.9
15°	6962.3	6966.7	6989.1	6957.8	6770.2	6462.1	6020.0	5609.1	5001.8	4349.7	3590.5
17.5°	7618.8	7627.7	7645.5	7605.4	7408.9	7042.7	6591.6	6095.9	5434.9	4693.6	3791.5
20°	8208.2	8217.2	8230.6	8177.0	7980.5	7614.3	7127.5	6609.5	5877.1	5046.4	4010.3
22.5°	8802.2	8811.1	8833.5	8762.0	8543.2	8123.4	7645.5	7109.6	6346.0	5434.9	4264.9
25°	9561.4	9570.3	9588.2	9485.5	9186.3	8695.0	8190.4	7641.1	6855.1	5872.6	4577.5
27.5°	10673.4	10664.5	10664.5	10476.9	9963.3	9324.7	8739.7	8181.5	7404.4	6341.5	4921.4
30°	12048.9	12026.6	12013.2	11758.6	11026.2	10034.8	9302.4	8686.1	7931.4	6837.2	5292.0
32.5°	13281.5	13281.5	13254.7	12986.7	12209.7	10990.5	9900.8	9177.3	8440.5	7337.4	5676.1
35°	14009.4	14040.7	14027.3	13826.3	13259.1	12017.6	10709.1	9766.8	8976.4	7859.9	6136.1
37.5°	14107.6	14170.2	14183.6	14063.0	13763.8	12857.2	11606.8	10405.4	9565.9	8422.6	6582.7
40°	13710.2	13844.2	13844.2	13826.3	13719.1	13254.7	12361.5	11146.8	10173.2	9007.6	7033.7
42.5°	13098.4	13236.8	13218.9	13285.9	13259.1	13160.9	12785.7	11839.0	10780.6	9610.5	7444.6
45°	12299.0	12441.9	12406.2	12526.7	12580.3	12687.5	12741.1	12321.3	11379.0	10267.0	7904.6
47.5°	11017.3	11258.4	11312.0	11526.4	11749.7	12084.6	12339.2	12495.5	11937.2	10972.6	8404.7
50°	9123.7	9463.2	9570.3	10021.4	10633.2	11325.4	11736.3	12281.1	12330.2	11696.1	8945.1
52.5°	6533.5	6926.5	7091.8	7833.1	9092.5	10298.3	11039.6	11807.7	12482.1	12388.3	9530.1
55°	4224.7	4559.6	4720.4	5417.1	7091.8	8985.3	10217.9	11195.9	12397.2	13022.4	10200.0
57.5°	2603.6	2795.6	2902.8	3501.2	5042.0	7301.7	9141.6	10633.2	12138.2	13571.7	10896.7
60°	1755.1	1866.7	1920.3	2201.7	3425.3	5457.3	7663.4	10043.7	11798.8	13942.4	11530.8
62.5°	1165.6	1201.3	1254.9	1429.1	2259.7	3831.7	5886.0	8989.8	11544.2	13964.7	11999.8
65°	902.1	920.0	942.3	1018.2	1393.3	2679.5	4139.8	7283.8	11164.6	13491.4	12147.1
67.5°	710.1	727.9	754.7	794.9	1009.3	1817.6	2818.0	5336.7	10387.6	12750.0	11906.0
70°	558.2	571.6	589.5	625.2	786.0	1317.4	1862.3	3545.9	8820.1	12044.4	11146.8
72.5°	442.1	455.5	473.4	509.1	638.6	964.6	1277.2	2210.6	6801.5	11182.5	9686.4
75°	348.3	357.3	370.7	406.4	513.6	750.3	866.4	1321.9	4622.2	9606.1	7547.3
77.5°	174.2	214.4	245.6	281.3	375.1	518.0	576.1	732.4	1951.6	4930.3	3599.5
80°	102.7	125.0	134.0	156.3	245.6	312.6	312.6	294.7	616.3	1893.5	1469.3
82.5°	58.1	80.4	84.9	89.3	147.4	178.6	142.9	107.2	125.0	634.2	428.7
85°	17.9	26.8	31.3	35.7	49.1	53.6	49.1	44.7	35.7	62.5	40.2
87.5°	0.0	0.0	0.0	0.0	4.5	8.9	8.9	8.9	13.4	13.4	13.4
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°	2876.0	2876.0	2876.0	2876.0	2876.0	2876.0	2876.0	2876.0	2876.0	2876.0	2876.0
2.5°	2893.9	2835.8	2724.2	2621.5	2523.2	2451.8	2384.8	2322.2	2277.6	2241.9	2237.4
5°	2934.1	2818.0	2603.6	2402.6	2219.5	2067.7	1938.2	1835.5	1759.5	1706.0	1701.5
7.5°	2987.7	2809.0	2483.0	2183.8	1911.4	1692.6	1505.0	1366.6	1268.3	1228.1	1196.8
10°	3032.3	2800.1	2362.4	1965.0	1607.7	1330.8	1107.5	969.1	897.6	870.8	857.4
12.5°	3108.2	2809.0	2259.7	1764.0	1344.2	1018.2	848.5	772.6	741.3	719.0	714.5
15°	3219.9	2849.2	2161.5	1567.5	1076.3	821.7	723.5	674.3	643.1	638.6	634.2
17.5°	3331.5	2884.9	2072.2	1366.6	893.2	714.5	647.5	607.4	585.0	580.6	580.6
20°	3461.0	2929.6	1973.9	1174.5	763.7	643.1	589.5	558.2	531.4	527.0	527.0
22.5°	3612.9	2992.1	1880.1	1004.8	678.8	589.5	544.8	509.1	486.8	482.3	482.3
25°	3818.3	3085.9	1804.2	879.8	620.8	544.8	504.6	473.4	455.5	446.6	446.6
27.5°	4046.1	3215.4	1750.6	803.9	580.6	509.1	468.9	442.1	424.3	415.3	415.3
30°	4300.6	3358.3	1714.9	772.6	558.2	477.8	442.1	415.3	393.0	388.5	388.5
32.5°	4582.0	3523.6	1692.6	777.1	553.8	455.5	415.3	388.5	370.7	361.7	361.7
35°	4894.6	3706.7	1679.2	803.9	562.7	437.7	393.0	366.2	348.3	339.4	339.4
37.5°	5242.9	3921.0	1679.2	830.6	585.0	433.2	370.7	343.9	330.5	321.5	321.5
40°	5568.9	4148.8	1697.0	861.9	607.4	433.2	352.8	330.5	312.6	303.7	303.7
42.5°	5823.5	4278.3	1710.4	893.2	620.8	428.7	334.9	312.6	299.2	290.3	290.3
45°	6113.8	4416.7	1683.6	906.6	620.8	419.8	321.5	299.2	285.8	276.9	276.9
47.5°	6435.3	4586.4	1679.2	915.5	607.4	401.9	308.1	285.8	276.9	268.0	268.0
50°	6761.3	4774.0	1688.1	911.0	589.5	375.1	290.3	276.9	263.5	254.6	254.6
52.5°	7132.0	4970.5	1706.0	902.1	549.3	343.9	276.9	263.5	250.1	241.2	236.7
55°	7542.8	5184.9	1741.7	884.2	495.7	312.6	263.5	250.1	232.2	223.3	218.8
57.5°	8016.2	5448.3	1781.9	848.5	437.7	285.8	250.1	232.2	205.4	192.0	187.6
60°	8467.3	5747.6	1826.5	763.7	379.6	259.0	236.7	209.9	183.1	174.2	169.7
62.5°	8891.5	6042.3	1848.9	611.8	321.5	236.7	223.3	192.0	165.2	156.3	151.8
65°	9163.9	6363.8	1799.7	415.3	263.5	218.8	205.4	178.6	151.8	138.4	138.4
67.5°	9181.8	6515.7	1630.0	272.4	214.4	196.5	187.6	160.8	134.0	125.0	120.6
70°	8730.8	6287.9	1246.0	214.4	178.6	169.7	169.7	142.9	116.1	107.2	102.7
72.5°	7694.7	5568.9	794.9	174.2	151.8	142.9	142.9	120.6	102.7	89.3	84.9
75°	6073.6	4296.2	424.3	142.9	125.0	120.6	111.6	98.2	84.9	75.9	71.5
77.5°	2791.2	1893.5	196.5	102.7	93.8	93.8	84.9	71.5	67.0	58.1	58.1
80°	1103.1	643.1	98.2	67.0	62.5	62.5	62.5	49.1	49.1	40.2	35.7
82.5°	303.7	134.0	49.1	40.2	40.2	40.2	35.7	31.3	31.3	26.8	26.8
85°	31.3	22.3	22.3	22.3	22.3	17.9	17.9	13.4	8.9	8.9	8.9
87.5°	13.4	13.4	13.4	13.4	13.4	8.9	4.5	0.0	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)