

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: P835820

Luminaire Tested: **ARCH3-100-730-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-100-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11123 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

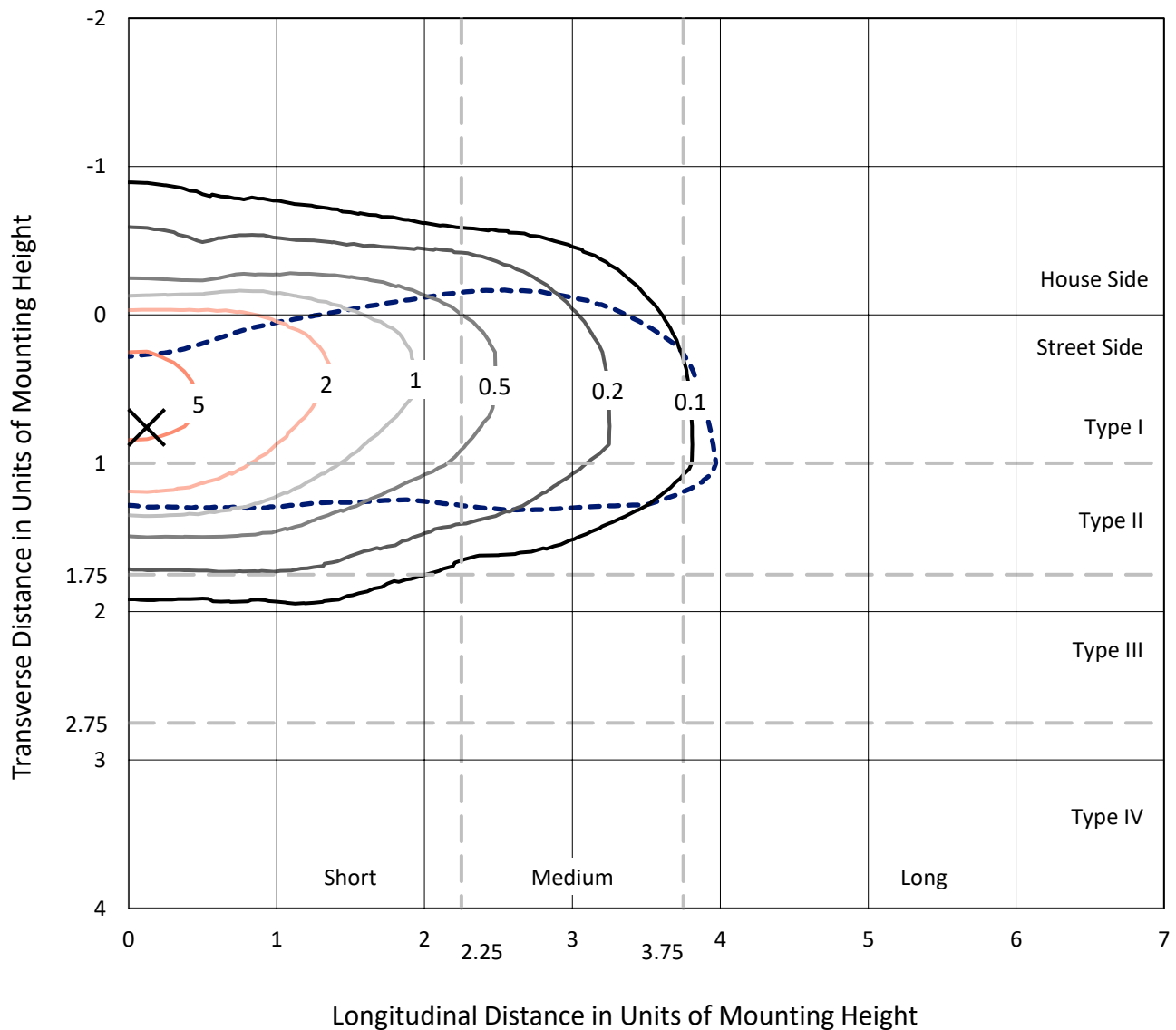
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

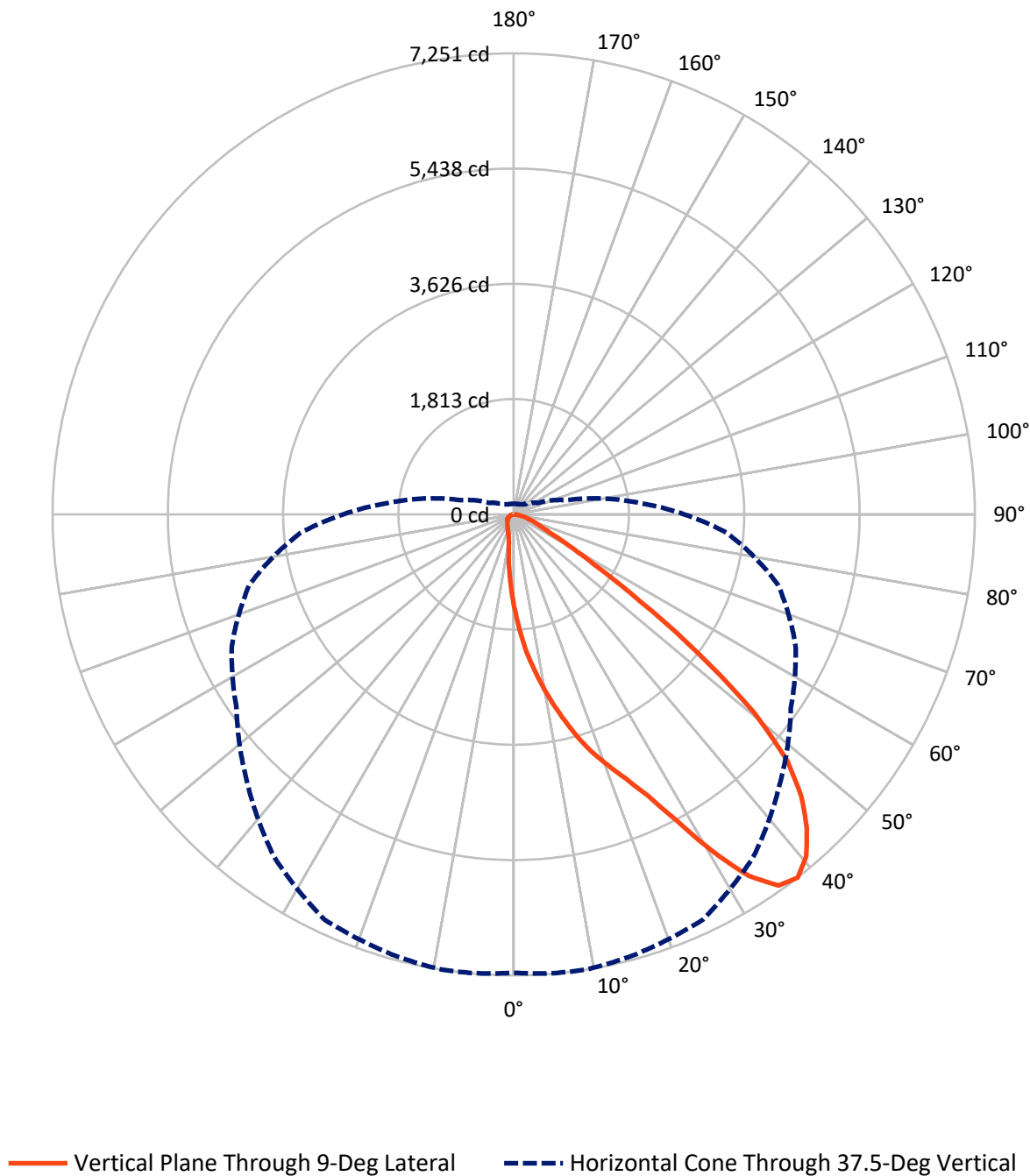
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	1352.8	0.0	1352.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	9770.2	0.0	9770.2
	% Fixture	87.8	0.0	87.8
Total	Lumens	11123.0	0.0	11123.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	1.3
10°-20°	513.7	4.6
20°-30°	1055.5	9.5
30°-40°	1865.6	16.8
40°-50°	2478.3	22.3
50°-60°	2350.5	21.1
60°-70°	1793.3	16.1
70°-80°	869.4	7.8
80°-90°	48.9	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°	11123.0	100.0
0°-180°	11123.0	100.0

Coefficient of Utilization



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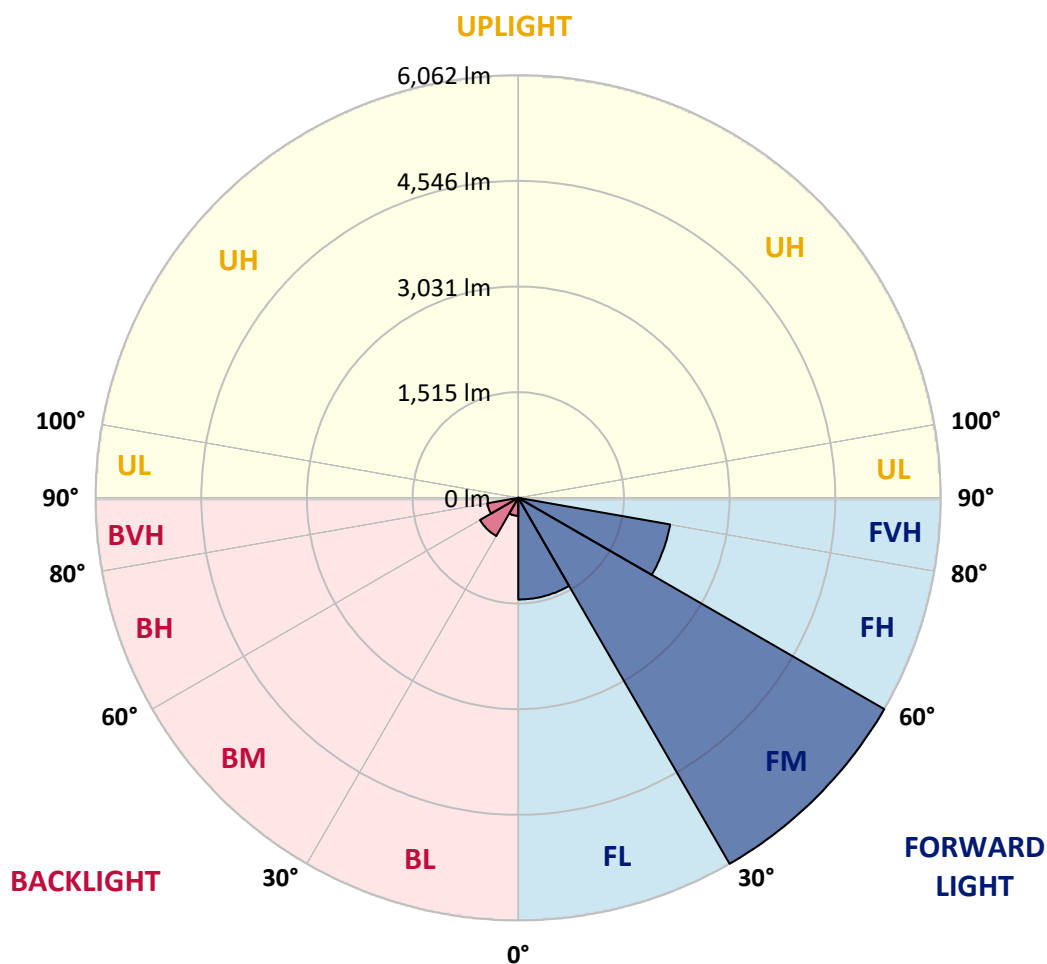
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1458.8	13.1			
FM	(30°-60°)	6061.5	54.5			
FH	(60°-80°)	2211.2	19.9			G2/5000
FVH	(80°-90°)	38.7	0.3			G1/100
BL	(0°-30°)	258.2	2.3	B1/500		
BM	(30°-60°)	633.0	5.7	B1/1000		
BH	(60°-80°)	451.4	4.1	B1/500		G1/500
BVH	(80°-90°)	10.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3
2.5°	1821.9	1790.0	1826.5	1821.9	1790.0	1769.4	1705.5	1684.9	1609.6	1554.8	1506.9
5°	2196.4	2164.4	2196.4	2187.2	2141.6	2091.3	1986.3	1917.8	1783.1	1664.4	1557.1
7.5°	2506.9	2506.9	2520.6	2522.8	2468.0	2390.4	2260.3	2157.5	1968.0	1785.4	1614.2
10°	2842.5	2844.8	2874.4	2853.9	2780.8	2675.8	2511.4	2381.3	2153.0	1913.3	1669.0
12.5°	3200.9	3203.2	3212.3	3203.2	3116.5	2981.7	2783.1	2611.9	2349.3	2059.4	1744.3
15°	3559.4	3561.7	3573.1	3557.1	3461.2	3303.7	3077.6	2867.6	2557.1	2223.8	1835.6
17.5°	3895.0	3899.6	3908.7	3888.1	3787.7	3600.5	3369.9	3116.5	2778.6	2399.6	1938.4
20°	4196.4	4200.9	4207.8	4180.4	4079.9	3892.7	3643.9	3379.0	3004.6	2579.9	2050.2
22.5°	4500.0	4504.6	4516.0	4479.5	4367.6	4153.0	3908.7	3634.7	3244.3	2778.6	2180.4
25°	4888.1	4892.7	4901.8	4849.3	4696.4	4445.2	4187.2	3906.4	3504.6	3002.3	2340.2
27.5°	5456.6	5452.1	5452.1	5356.2	5093.6	4767.1	4468.1	4182.7	3785.4	3242.0	2516.0
30°	6159.8	6148.4	6141.6	6011.4	5637.0	5130.2	4755.7	4440.7	4054.8	3495.4	2705.5
32.5°	6790.0	6790.0	6776.3	6639.3	6242.0	5618.7	5061.7	4691.8	4315.1	3751.2	2901.8
35°	7162.1	7178.1	7171.3	7068.5	6778.6	6143.9	5474.9	4993.2	4589.1	4018.3	3137.0
37.5°	7212.4	7244.3	7251.2	7189.5	7036.6	6573.1	5933.8	5319.7	4890.4	4306.0	3365.3
40°	7009.2	7077.7	7077.7	7068.5	7013.7	6776.3	6319.7	5698.7	5200.9	4605.0	3595.9
42.5°	6696.4	6767.2	6758.0	6792.3	6778.6	6728.3	6536.6	6052.5	5511.4	4913.3	3806.0
45°	6287.7	6360.8	6342.5	6404.1	6431.5	6486.3	6513.7	6299.1	5817.4	5248.9	4041.1
47.5°	5632.4	5755.7	5783.1	5892.7	6006.9	6178.1	6308.2	6388.2	6102.8	5609.6	4296.8
50°	4664.4	4837.9	4892.7	5123.3	5436.1	5790.0	6000.0	6278.6	6303.7	5979.5	4573.1
52.5°	3340.2	3541.1	3625.6	4004.6	4648.4	5264.9	5643.9	6036.6	6381.3	6333.4	4872.2
55°	2159.8	2331.1	2413.3	2769.4	3625.6	4593.6	5223.8	5723.8	6337.9	6657.6	5214.6
57.5°	1331.1	1429.2	1484.0	1790.0	2577.6	3732.9	4673.5	5436.1	6205.5	6938.4	5570.8
60°	897.3	954.3	981.7	1125.6	1751.1	2790.0	3917.8	5134.7	6032.0	7127.9	5895.0
62.5°	595.9	614.2	641.6	730.6	1155.3	1958.9	3009.1	4595.9	5901.9	7139.3	6134.7
65°	461.2	470.3	481.7	520.6	712.3	1369.9	2116.4	3723.8	5707.8	6897.3	6210.1
67.5°	363.0	372.1	385.8	406.4	516.0	929.2	1440.6	2728.3	5310.5	6518.3	6086.8
70°	285.4	292.2	301.4	319.6	401.8	673.5	952.1	1812.8	4509.2	6157.6	5698.7
72.5°	226.0	232.9	242.0	260.3	326.5	493.2	653.0	1130.1	3477.2	5716.9	4952.1
75°	178.1	182.6	189.5	207.8	262.6	383.6	442.9	675.8	2363.0	4911.0	3858.5
77.5°	89.0	109.6	125.6	143.8	191.8	264.8	294.5	374.4	997.7	2520.6	1840.2
80°	52.5	63.9	68.5	79.9	125.6	159.8	159.8	150.7	315.1	968.0	751.1
82.5°	29.7	41.1	43.4	45.7	75.3	91.3	73.1	54.8	63.9	324.2	219.2
85°	9.1	13.7	16.0	18.3	25.1	27.4	25.1	22.8	18.3	32.0	20.5
87.5°	0.0	0.0	0.0	0.0	2.3	4.6	4.6	4.6	6.8	6.8	6.8
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°	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3
2.5°	1479.5	1449.8	1392.7	1340.2	1290.0	1253.4	1219.2	1187.2	1164.4	1146.1	1143.8
5°	1500.0	1440.6	1331.1	1228.3	1134.7	1057.1	990.9	938.4	899.5	872.1	869.9
7.5°	1527.4	1436.1	1269.4	1116.4	977.2	865.3	769.4	698.6	648.4	627.9	611.9
10°	1550.2	1431.5	1207.8	1004.6	821.9	680.4	566.2	495.4	458.9	445.2	438.4
12.5°	1589.0	1436.1	1155.3	901.8	687.2	520.6	433.8	395.0	379.0	367.6	365.3
15°	1646.1	1456.6	1105.0	801.4	550.2	420.1	369.9	344.8	328.8	326.5	324.2
17.5°	1703.2	1474.9	1059.4	698.6	456.6	365.3	331.1	310.5	299.1	296.8	296.8
20°	1769.4	1497.7	1009.1	600.5	390.4	328.8	301.4	285.4	271.7	269.4	269.4
22.5°	1847.0	1529.7	961.2	513.7	347.0	301.4	278.5	260.3	248.9	246.6	246.6
25°	1952.1	1577.6	922.4	449.8	317.4	278.5	258.0	242.0	232.9	228.3	228.3
27.5°	2068.5	1643.8	895.0	411.0	296.8	260.3	239.7	226.0	216.9	212.3	212.3
30°	2198.6	1716.9	876.7	395.0	285.4	244.3	226.0	212.3	200.9	198.6	198.6
32.5°	2342.5	1801.4	865.3	397.3	283.1	232.9	212.3	198.6	189.5	184.9	184.9
35°	2502.3	1895.0	858.5	411.0	287.7	223.7	200.9	187.2	178.1	173.5	173.5
37.5°	2680.4	2004.6	858.5	424.7	299.1	221.5	189.5	175.8	169.0	164.4	164.4
40°	2847.0	2121.0	867.6	440.6	310.5	221.5	180.4	169.0	159.8	155.3	155.3
42.5°	2977.2	2187.2	874.4	456.6	317.4	219.2	171.2	159.8	153.0	148.4	148.4
45°	3125.6	2258.0	860.7	463.5	317.4	214.6	164.4	153.0	146.1	141.6	141.6
47.5°	3290.0	2344.8	858.5	468.0	310.5	205.5	157.5	146.1	141.6	137.0	137.0
50°	3456.6	2440.6	863.0	465.8	301.4	191.8	148.4	141.6	134.7	130.1	130.1
52.5°	3646.1	2541.1	872.1	461.2	280.8	175.8	141.6	134.7	127.9	123.3	121.0
55°	3856.2	2650.7	890.4	452.1	253.4	159.8	134.7	127.9	118.7	114.2	111.9
57.5°	4098.2	2785.4	911.0	433.8	223.7	146.1	127.9	118.7	105.0	98.2	95.9
60°	4328.8	2938.4	933.8	390.4	194.1	132.4	121.0	107.3	93.6	89.0	86.8
62.5°	4545.7	3089.1	945.2	312.8	164.4	121.0	114.2	98.2	84.5	79.9	77.6
65°	4685.0	3253.4	920.1	212.3	134.7	111.9	105.0	91.3	77.6	70.8	70.8
67.5°	4694.1	3331.1	833.3	139.3	109.6	100.5	95.9	82.2	68.5	63.9	61.6
70°	4463.5	3214.6	637.0	109.6	91.3	86.8	86.8	73.1	59.4	54.8	52.5
72.5°	3933.8	2847.0	406.4	89.0	77.6	73.1	73.1	61.6	52.5	45.7	43.4
75°	3105.0	2196.4	216.9	73.1	63.9	61.6	57.1	50.2	43.4	38.8	36.5
77.5°	1426.9	968.0	100.5	52.5	47.9	47.9	43.4	36.5	34.2	29.7	29.7
80°	563.9	328.8	50.2	34.2	32.0	32.0	32.0	25.1	25.1	20.5	18.3
82.5°	155.3	68.5	25.1	20.5	20.5	20.5	18.3	16.0	16.0	13.7	13.7
85°	16.0	11.4	11.4	11.4	11.4	9.1	9.1	6.8	4.6	4.6	4.6
87.5°	6.8	6.8	6.8	6.8	6.8	4.6	2.3	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)