

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: P799298

Luminaire Tested: **ARCH2-100-750-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-100-750-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9439 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

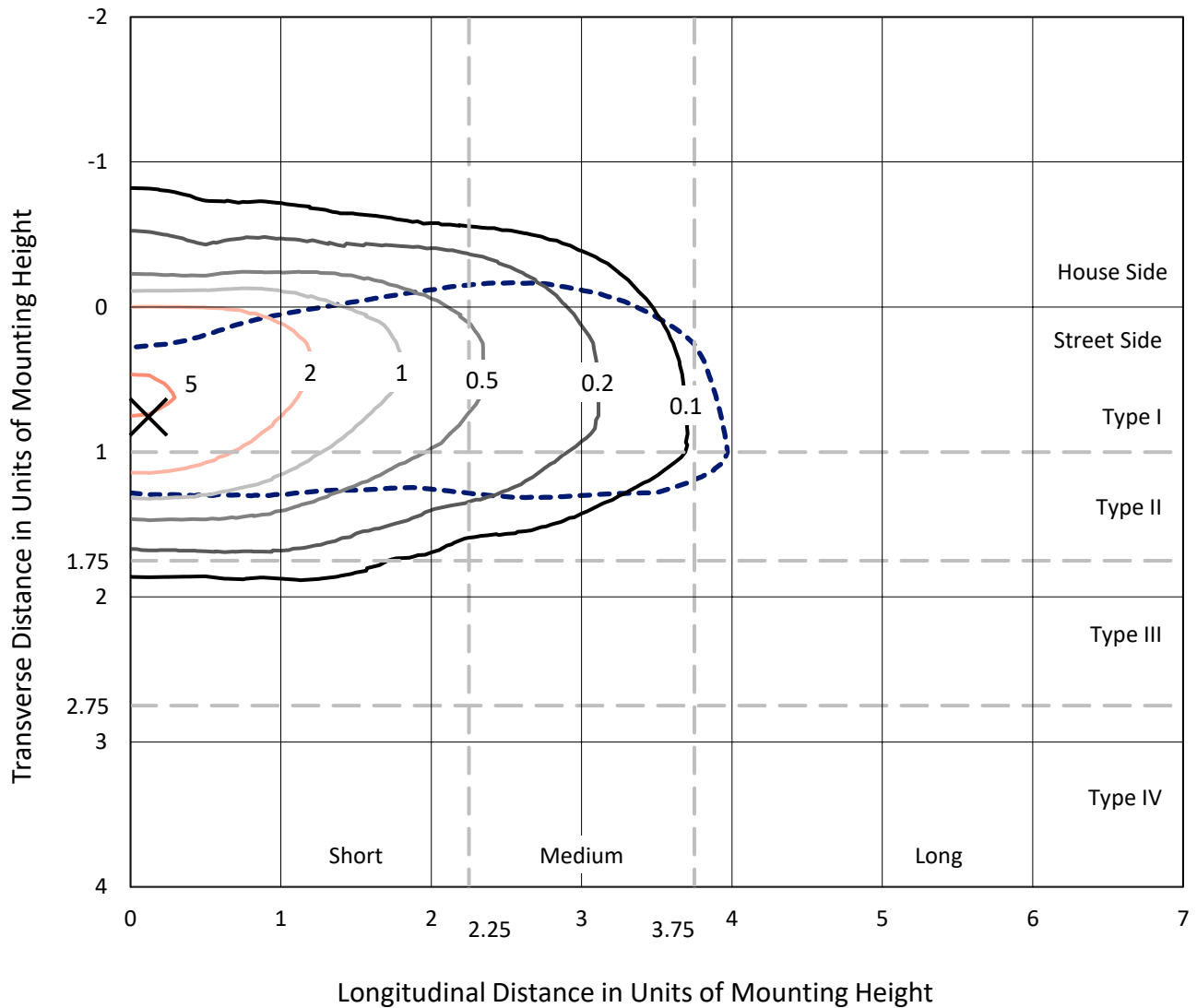
Input Watts (W): 103.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

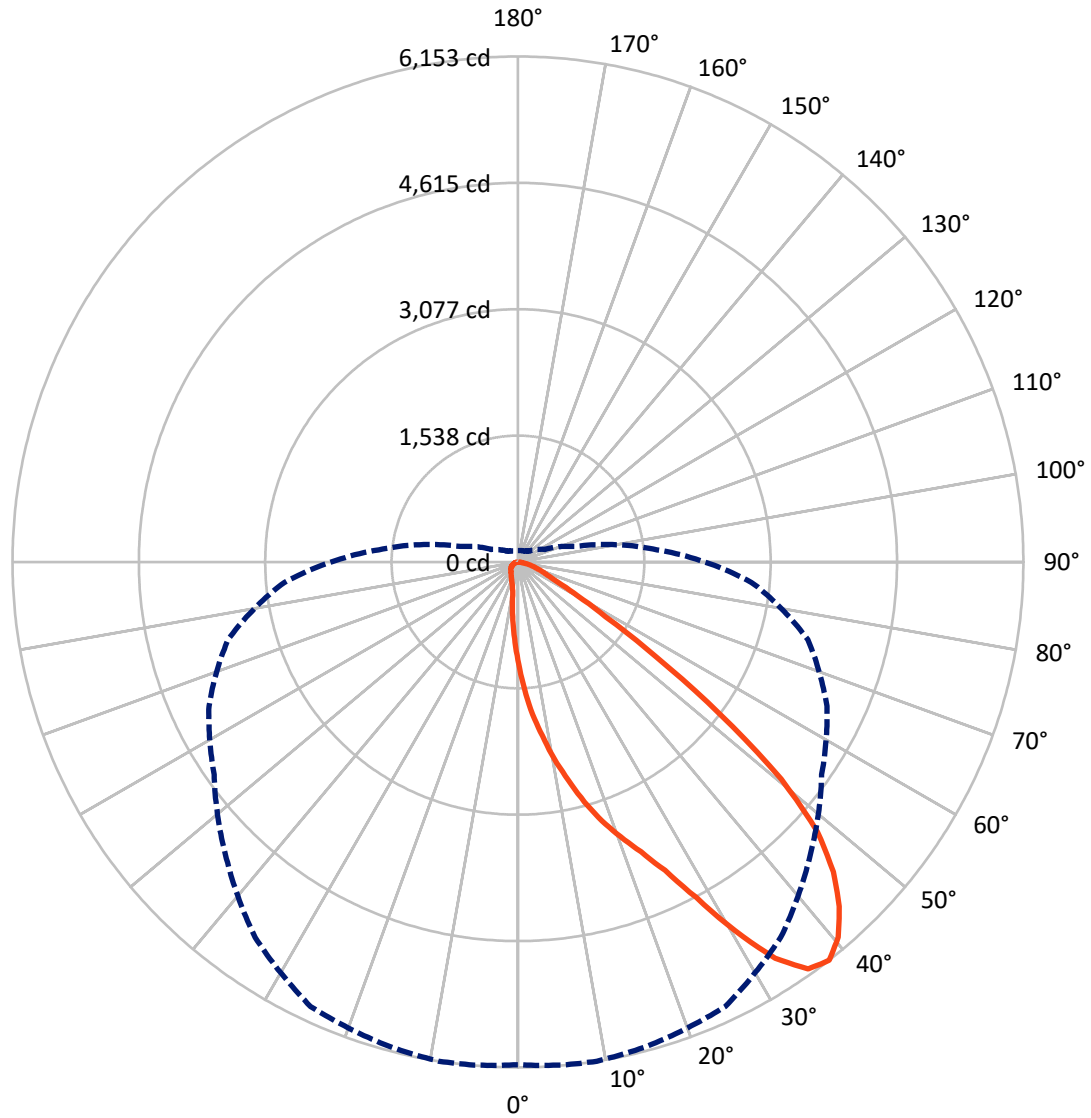
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 9-Deg Lateral - - - Horizontal Cone Through 37.5-Deg Vertical

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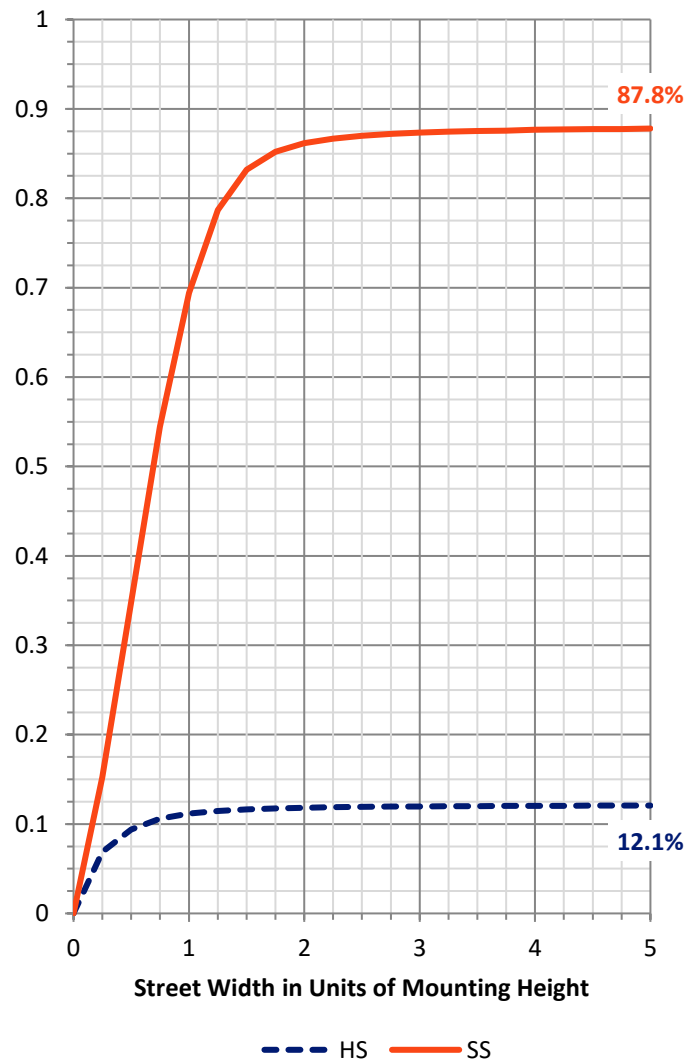
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1147.9	0.0	1147.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	8291.0	0.0	8291.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	9439.0	0.0	9439.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	1.3
10°-20°	435.9	4.6
20°-30°	895.7	9.5
30°-40°	1583.2	16.8
40°-50°	2103.1	22.3
50°-60°	1994.7	21.1
60°-70°	1521.8	16.1
70°-80°	737.7	7.8
80°-90°	41.5	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°	9439.0	100.0
0°-180°	9439.0	100.0

Coefficient of Utilization



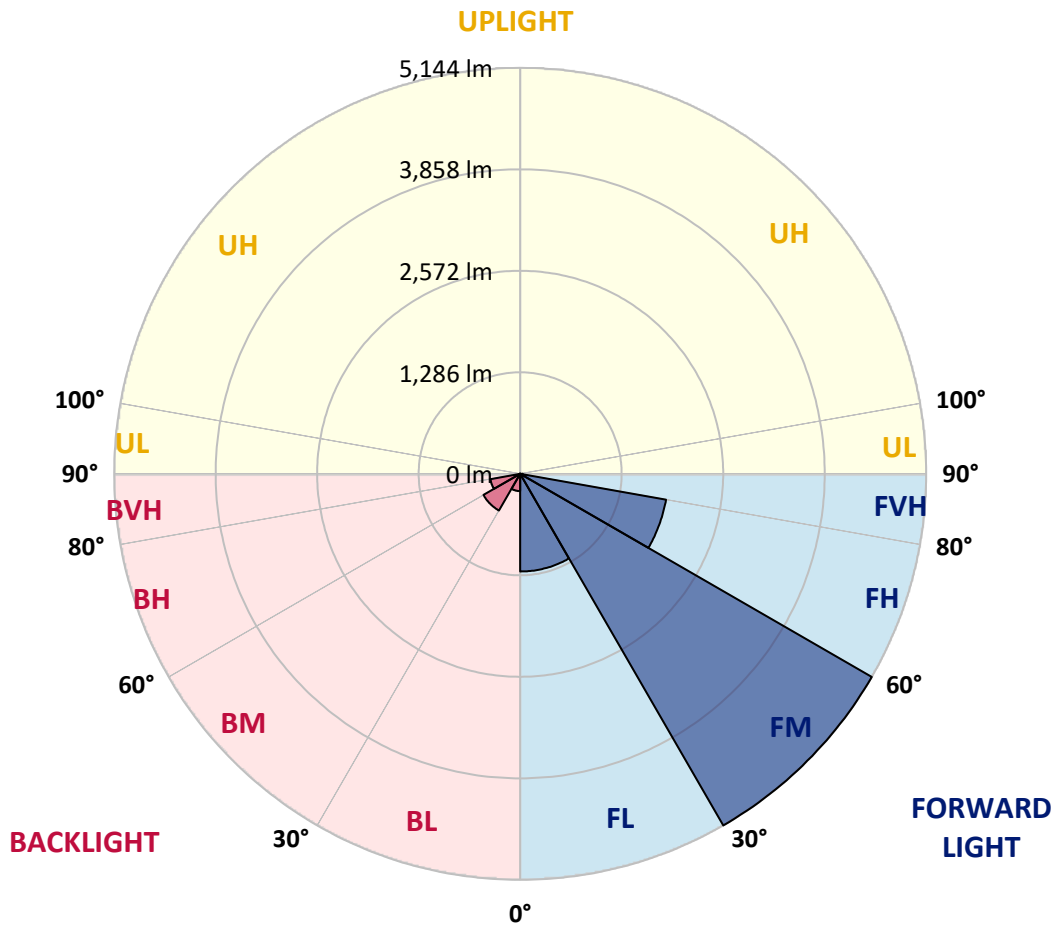
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1237.9	13.1			
FM (30°-60°)	5143.8	54.5			
FH (60°-80°)	1876.4	19.9			G2/5000
FVH (80°-90°)	32.9	0.3			G1/100
BL (0°-30°)	219.1	2.3	B1/500		
BM (30°-60°)	537.2	5.7	B1/1000		
BH (60°-80°)	383.1	4.1	B1/500		G1/500
BVH (80°-90°)	8.6	0.1			G0/10
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°	1247.7	1247.7	1247.7	1247.7	1247.7	1247.7	1247.7	1247.7	1247.7	1247.7	1247.7
2.5°	1546.1	1519.0	1550.0	1546.1	1519.0	1501.5	1447.3	1429.8	1365.9	1319.4	1278.7
5°	1863.8	1836.7	1863.8	1856.1	1817.3	1774.7	1685.6	1627.5	1513.2	1412.4	1321.3
7.5°	2127.3	2127.3	2139.0	2140.9	2094.4	2028.5	1918.1	1830.9	1670.1	1515.1	1369.8
10°	2412.1	2414.1	2439.3	2421.8	2359.8	2270.7	2131.2	2020.8	1827.0	1623.6	1416.3
12.5°	2716.3	2718.3	2726.0	2718.3	2644.6	2530.3	2361.8	2216.4	1993.6	1747.6	1480.2
15°	3020.5	3022.4	3032.1	3018.6	2937.2	2803.5	2611.7	2433.4	2170.0	1887.1	1557.7
17.5°	3305.3	3309.2	3316.9	3299.5	3214.2	3055.4	2859.7	2644.6	2357.9	2036.3	1644.9
20°	3561.0	3564.9	3570.7	3547.5	3462.2	3303.4	3092.2	2867.4	2549.7	2189.3	1739.8
22.5°	3818.7	3822.6	3832.3	3801.3	3706.4	3524.2	3316.9	3084.4	2753.1	2357.9	1850.3
25°	4148.1	4152.0	4159.7	4115.2	3985.3	3772.2	3553.3	3315.0	2974.0	2547.8	1985.9
27.5°	4630.5	4626.6	4626.6	4545.3	4322.5	4045.4	3791.6	3549.4	3212.3	2751.2	2135.1
30°	5227.3	5217.6	5211.8	5101.3	4783.6	4353.5	4035.7	3768.4	3440.9	2966.2	2295.9
32.5°	5762.0	5762.0	5750.4	5634.1	5297.0	4768.1	4295.3	3981.5	3661.8	3183.2	2462.5
35°	6077.8	6091.4	6085.5	5998.4	5752.3	5213.7	4646.0	4237.2	3894.3	3409.9	2662.1
37.5°	6120.4	6147.5	6153.4	6101.0	5971.2	5577.9	5035.4	4514.3	4150.0	3654.0	2855.8
40°	5948.0	6006.1	6006.1	5998.4	5951.9	5750.4	5362.9	4835.9	4413.5	3907.8	3051.5
42.5°	5682.6	5742.6	5734.9	5763.9	5752.3	5709.7	5546.9	5136.2	4677.0	4169.4	3229.7
45°	5335.8	5397.8	5382.3	5434.6	5457.8	5504.3	5527.6	5345.4	4936.6	4454.2	3429.3
47.5°	4779.7	4884.3	4907.6	5000.6	5097.4	5242.8	5353.2	5421.0	5178.8	4760.3	3646.3
50°	3958.2	4105.5	4152.0	4347.7	4613.1	4913.4	5091.6	5328.0	5349.3	5074.2	3880.7
52.5°	2834.5	3005.0	3076.7	3398.3	3944.7	4467.8	4789.4	5122.6	5415.2	5374.5	4134.5
55°	1832.8	1978.1	2047.9	2350.1	3076.7	3898.2	4432.9	4857.2	5378.4	5649.6	4425.1
57.5°	1129.5	1212.8	1259.3	1519.0	2187.4	3167.7	3966.0	4613.1	5266.0	5887.9	4727.4
60°	761.4	809.9	833.1	955.2	1486.0	2367.6	3324.7	4357.3	5118.8	6048.7	5002.5
62.5°	505.7	521.2	544.4	620.0	980.4	1662.3	2553.6	3900.1	5008.3	6058.4	5205.9
65°	391.4	399.1	408.8	441.7	604.5	1162.5	1796.0	3160.0	4843.6	5853.1	5269.9
67.5°	308.1	315.8	327.4	344.9	437.9	788.5	1222.5	2315.3	4506.5	5531.4	5165.3
70°	242.2	248.0	255.7	271.2	341.0	571.5	807.9	1538.3	3826.5	5225.3	4835.9
72.5°	191.8	197.6	205.4	220.9	277.1	418.5	554.1	959.0	2950.7	4851.4	4202.3
75°	151.1	155.0	160.8	176.3	222.8	325.5	375.9	573.5	2005.3	4167.5	3274.3
77.5°	75.6	93.0	106.6	122.1	162.7	224.7	249.9	317.7	846.7	2139.0	1561.6
80°	44.6	54.2	58.1	67.8	106.6	135.6	135.6	127.9	267.4	821.5	637.4
82.5°	25.2	34.9	36.8	38.7	63.9	77.5	62.0	46.5	54.2	275.1	186.0
85°	7.7	11.6	13.6	15.5	21.3	23.2	21.3	19.4	15.5	27.1	17.4
87.5°	0.0	0.0	0.0	0.0	1.9	3.9	3.9	3.9	5.8	5.8	5.8
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°	1247.7	1247.7	1247.7	1247.7	1247.7	1247.7	1247.7	1247.7	1247.7	1247.7	1247.7
2.5°	1255.5	1230.3	1181.8	1137.3	1094.7	1063.7	1034.6	1007.5	988.1	972.6	970.7
5°	1272.9	1222.5	1129.5	1042.4	962.9	897.0	840.9	796.3	763.4	740.1	738.2
7.5°	1296.2	1218.7	1077.2	947.4	829.2	734.3	652.9	592.9	550.2	532.8	519.2
10°	1315.5	1214.8	1024.9	852.5	697.5	577.4	480.5	420.4	389.4	377.8	372.0
12.5°	1348.5	1218.7	980.4	765.3	583.2	441.7	368.1	335.2	321.6	311.9	310.0
15°	1396.9	1236.1	937.7	680.0	466.9	356.5	313.9	292.6	279.0	277.1	275.1
17.5°	1445.3	1251.6	899.0	592.9	387.5	310.0	280.9	263.5	253.8	251.9	251.9
20°	1501.5	1271.0	856.4	509.6	331.3	279.0	255.7	242.2	230.6	228.6	228.6
22.5°	1567.4	1298.1	815.7	435.9	294.5	255.7	236.4	220.9	211.2	209.2	209.2
25°	1656.5	1338.8	782.7	381.7	269.3	236.4	218.9	205.4	197.6	193.7	193.7
27.5°	1755.3	1395.0	759.5	348.7	251.9	220.9	203.4	191.8	184.1	180.2	180.2
30°	1865.8	1457.0	744.0	335.2	242.2	207.3	191.8	180.2	170.5	168.6	168.6
32.5°	1987.8	1528.7	734.3	337.1	240.2	197.6	180.2	168.6	160.8	156.9	156.9
35°	2123.5	1608.1	728.5	348.7	244.1	189.9	170.5	158.9	151.1	147.2	147.2
37.5°	2274.6	1701.1	728.5	360.4	253.8	187.9	160.8	149.2	143.4	139.5	139.5
40°	2416.0	1799.9	736.2	373.9	263.5	187.9	153.1	143.4	135.6	131.7	131.7
42.5°	2526.4	1856.1	742.0	387.5	269.3	186.0	145.3	135.6	129.8	125.9	125.9
45°	2652.4	1916.1	730.4	393.3	269.3	182.1	139.5	129.8	124.0	120.1	120.1
47.5°	2791.9	1989.8	728.5	397.2	263.5	174.4	133.7	124.0	120.1	116.2	116.2
50°	2933.3	2071.1	732.4	395.2	255.7	162.7	125.9	120.1	114.3	110.4	110.4
52.5°	3094.1	2156.4	740.1	391.4	238.3	149.2	120.1	114.3	108.5	104.6	102.7
55°	3272.4	2249.4	755.6	383.6	215.1	135.6	114.3	108.5	100.7	96.9	94.9
57.5°	3477.7	2363.7	773.0	368.1	189.9	124.0	108.5	100.7	89.1	83.3	81.4
60°	3673.4	2493.5	792.4	331.3	164.7	112.4	102.7	91.1	79.4	75.6	73.6
62.5°	3857.5	2621.4	802.1	265.4	139.5	102.7	96.9	83.3	71.7	67.8	65.9
65°	3975.7	2760.9	780.8	180.2	114.3	94.9	89.1	77.5	65.9	60.1	60.1
67.5°	3983.4	2826.7	707.2	118.2	93.0	85.2	81.4	69.7	58.1	54.2	52.3
70°	3787.7	2727.9	540.6	93.0	77.5	73.6	73.6	62.0	50.4	46.5	44.6
72.5°	3338.2	2416.0	344.9	75.6	65.9	62.0	62.0	52.3	44.6	38.7	36.8
75°	2634.9	1863.8	184.1	62.0	54.2	52.3	48.4	42.6	36.8	32.9	31.0
77.5°	1210.9	821.5	85.2	44.6	40.7	40.7	36.8	31.0	29.1	25.2	25.2
80°	478.6	279.0	42.6	29.1	27.1	27.1	27.1	21.3	21.3	17.4	15.5
82.5°	131.7	58.1	21.3	17.4	17.4	17.4	15.5	13.6	13.6	11.6	11.6
85°	13.6	9.7	9.7	9.7	9.7	7.7	7.7	5.8	3.9	3.9	3.9
87.5°	5.8	5.8	5.8	5.8	5.8	3.9	1.9	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)