

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: P1211576

Luminaire Tested: **ARCH4-50-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-50-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 435mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6261 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

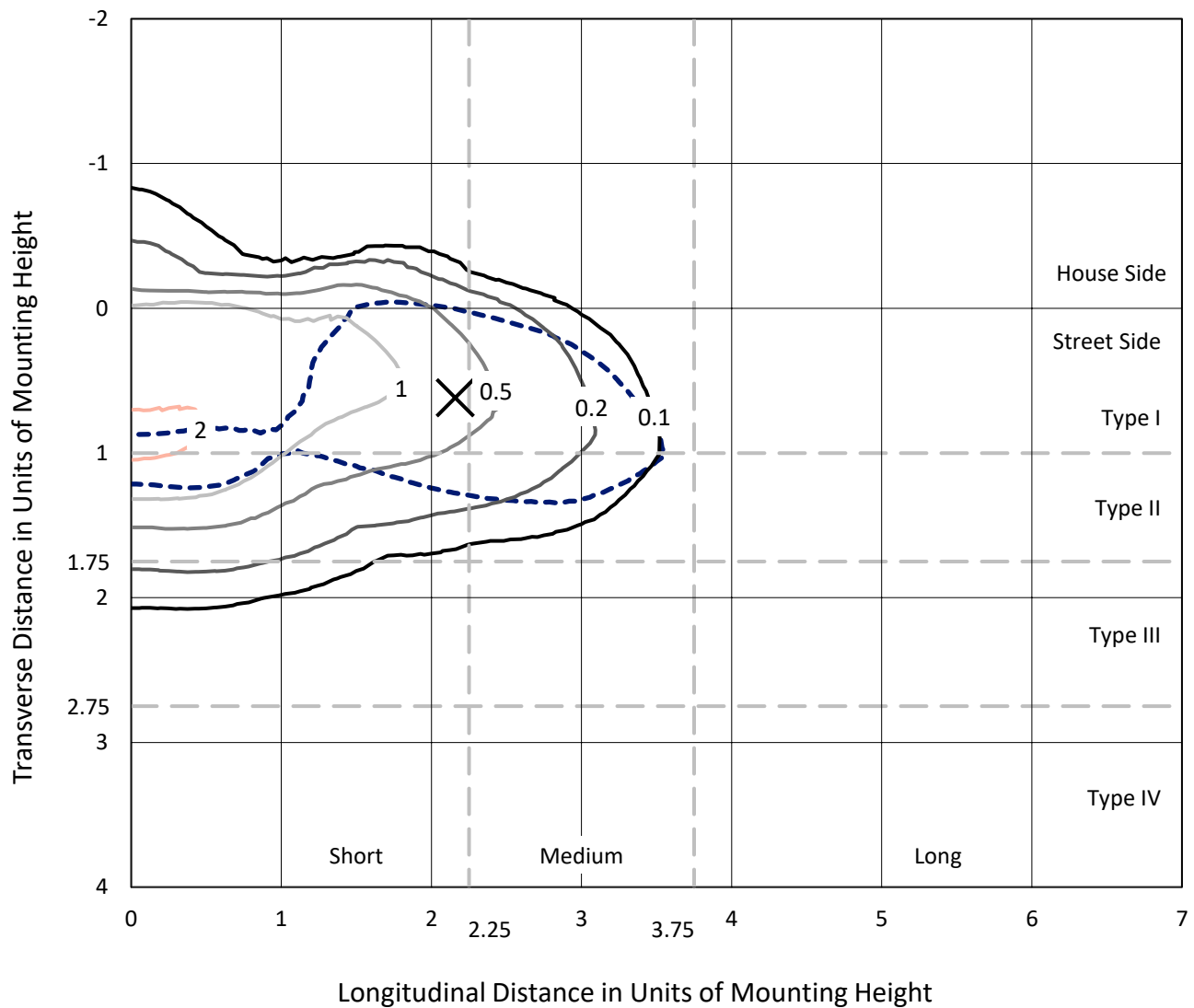
Input Watts (W): 53.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

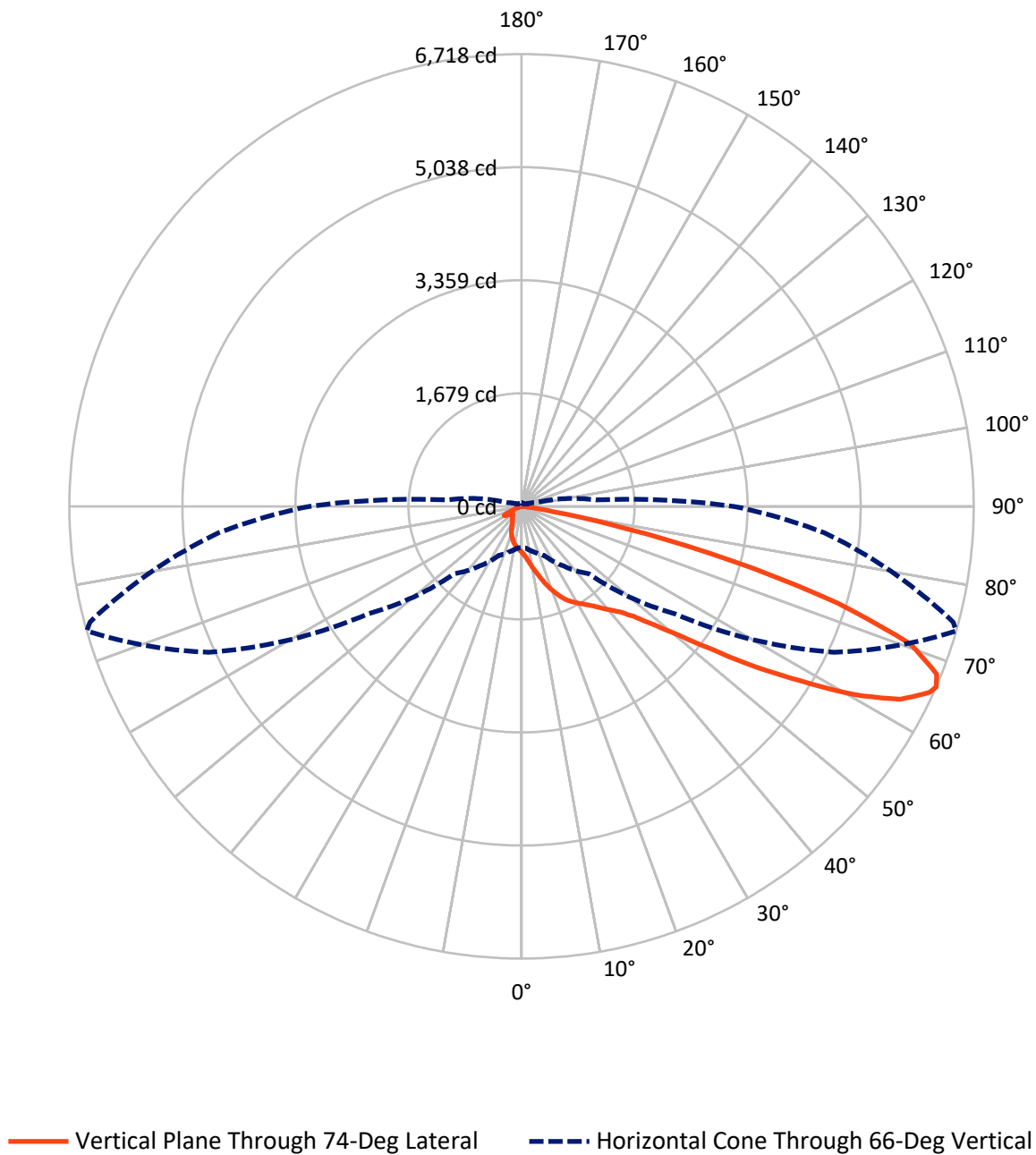
✕ Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	613.8	0.0	613.8
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	5647.2	0.0	5647.2
	% Fixture	90.2	0.0	90.2
Total	Lumens	6261.0	0.0	6261.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	1.1
10°-20°	213.9	3.4
20°-30°	408.1	6.5
30°-40°	715.4	11.4
40°-50°	1226.6	19.6
50°-60°	1595.3	25.5
60°-70°	1444.2	23.1
70°-80°	557.2	8.9
80°-90°	33.5	0.5
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°	6261.0	100.0
0°-180°	6261.0	100.0

Coefficient of Utilization



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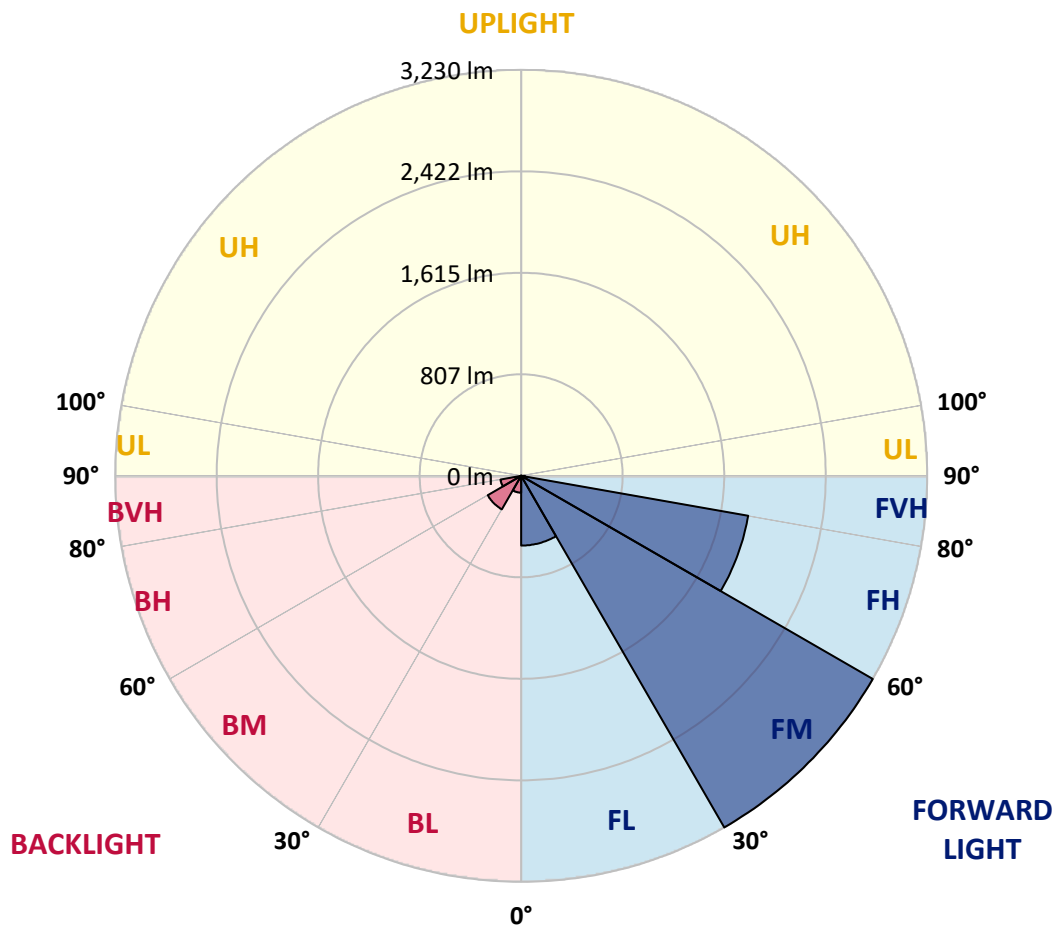
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	554.8	8.9			
FM	(30°-60°)	3229.7	51.6			
FH	(60°-80°)	1833.6	29.3			G2/5000
FVH	(80°-90°)	29.0	0.5			G1/100
BL	(0°-30°)	133.9	2.1	B1/500		
BM	(30°-60°)	307.6	4.9	B1/1000		
BH	(60°-80°)	167.8	2.7	B1/500		G1/500
BVH	(80°-90°)	4.5	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°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	683.4	683.4	683.4	683.4	683.4	683.4	683.4	683.4	683.4	683.4	683.4
2.5°	820.6	813.8	801.5	800.3	790.2	777.9	756.5	734.0	718.3	716.0	696.9
5°	982.4	979.1	966.7	958.8	939.7	910.5	861.0	811.6	770.0	765.5	722.8
7.5°	1025.2	1027.4	1029.7	1037.5	1030.8	1017.3	980.2	910.5	845.3	835.2	761.0
10°	1031.9	1029.7	1029.7	1039.8	1058.9	1078.0	1073.5	1013.9	929.6	917.3	813.8
12.5°	1105.0	1108.3	1100.5	1096.0	1092.6	1102.7	1136.4	1110.6	1018.4	1008.3	877.9
15°	1199.4	1198.3	1187.0	1187.0	1176.9	1160.1	1181.4	1200.5	1125.2	1112.8	951.0
17.5°	1268.0	1272.5	1271.3	1278.1	1274.7	1252.2	1241.0	1280.3	1235.4	1219.6	1034.2
20°	1323.0	1335.4	1339.9	1361.3	1371.4	1355.6	1326.4	1351.1	1341.0	1326.4	1118.5
22.5°	1381.5	1391.6	1399.5	1436.6	1464.7	1461.3	1424.2	1418.6	1443.3	1429.8	1201.6
25°	1439.9	1444.4	1468.1	1513.0	1558.0	1569.2	1531.0	1487.2	1535.5	1523.1	1275.8
27.5°	1504.0	1506.3	1534.4	1589.5	1652.4	1676.0	1645.7	1564.7	1606.3	1606.3	1343.3
30°	1620.9	1643.4	1654.6	1704.1	1759.2	1791.8	1755.8	1646.8	1669.3	1679.4	1414.1
32.5°	1872.7	1876.1	1872.7	1894.1	1905.3	1924.4	1882.8	1739.0	1733.3	1744.6	1483.8
35°	2257.2	2243.7	2207.7	2176.2	2111.0	2075.1	2021.1	1857.0	1812.0	1827.8	1552.4
37.5°	2723.7	2704.5	2622.5	2525.8	2386.4	2242.5	2175.1	2000.9	1912.1	1932.3	1626.5
40°	3168.8	3156.4	3058.6	2939.5	2701.2	2455.0	2312.2	2122.3	2023.3	2031.2	1701.9
42.5°	3535.2	3533.0	3450.9	3326.2	3020.4	2684.3	2474.1	2241.4	2140.3	2152.6	1780.5
45°	3812.9	3791.5	3730.8	3640.9	3329.5	2922.6	2669.7	2422.4	2328.0	2342.6	1898.6
47.5°	3812.9	3816.3	3855.6	3846.6	3545.4	3146.3	2883.3	2650.6	2605.6	2619.1	2093.0
50°	3502.6	3534.1	3709.5	3856.7	3657.8	3320.5	3113.7	2936.1	2982.2	3002.4	2432.5
52.5°	2888.9	2941.7	3246.4	3582.5	3574.6	3408.2	3352.0	3299.2	3506.0	3542.0	2933.9
55°	2195.3	2230.2	2627.0	3068.7	3212.6	3336.3	3560.0	3760.1	4199.6	4191.7	3443.1
57.5°	1640.0	1672.6	2014.4	2504.5	2694.4	3024.9	3666.8	4287.3	4887.5	4917.9	3920.8
60°	1206.1	1230.9	1522.0	1924.4	2198.7	2548.3	3624.0	4806.6	5680.0	5645.1	4342.3
62.5°	892.5	906.0	1116.2	1378.1	1742.3	2076.2	3355.4	5161.8	6312.8	6242.0	4577.3
65°	690.2	694.7	803.7	943.1	1266.8	1614.2	2955.2	5215.7	6662.4	6587.1	4572.8
66°	614.9	618.2	698.1	806.0	1078.0	1413.0	2779.9	5129.2	6717.5	6637.7	4516.6
67.5°	516.0	513.7	560.9	631.7	809.3	1090.4	2468.5	4876.3	6652.3	6611.9	4336.7
70°	382.2	383.3	406.9	423.8	473.2	603.6	1782.8	4229.9	6130.7	6128.5	3843.2
72.5°	283.3	286.6	304.6	308.0	295.6	327.1	1027.4	3364.4	4904.4	4905.5	2873.2
75°	212.5	218.1	223.7	225.9	214.7	206.8	464.2	2263.9	3226.1	3202.5	1626.5
77.5°	161.9	164.1	168.6	165.2	163.0	142.8	193.3	1103.8	1592.8	1451.2	527.2
80°	118.0	118.0	122.5	118.0	116.9	102.3	105.7	354.1	467.6	388.9	113.5
82.5°	74.2	73.1	76.4	75.3	73.1	65.2	61.8	98.9	107.9	96.7	55.1
85°	41.6	40.5	39.3	38.2	34.8	29.2	33.7	37.1	49.5	50.6	39.3
87.5°	14.6	14.6	13.5	12.4	10.1	10.1	12.4	12.4	18.0	18.0	20.2
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°	683.4	683.4	683.4	683.4	683.4	683.4	683.4	683.4	683.4	683.4	683.4
2.5°	687.9	675.6	657.6	634.0	617.1	600.3	582.3	572.2	557.5	554.2	558.7
5°	700.3	677.8	632.9	583.4	540.7	502.5	466.5	445.1	423.8	415.9	419.3
7.5°	726.2	687.9	611.5	531.7	460.9	403.5	360.8	336.1	317.0	309.1	311.4
10°	764.4	705.9	591.3	473.2	382.2	321.5	285.5	269.8	258.5	254.0	255.2
12.5°	810.5	731.8	565.4	414.8	314.7	261.9	245.1	241.7	239.4	237.2	238.3
15°	862.2	754.3	535.1	357.5	261.9	232.7	227.1	225.9	224.8	224.8	224.8
17.5°	916.1	774.5	501.3	303.5	228.2	214.7	211.3	211.3	211.3	212.5	212.5
20°	966.7	790.2	462.0	255.2	209.1	197.8	195.6	195.6	196.7	197.8	197.8
22.5°	1016.2	797.0	415.9	221.4	193.3	183.2	179.9	179.9	179.9	181.0	181.0
25°	1058.9	797.0	369.8	200.1	179.9	169.7	165.2	164.1	165.2	165.2	165.2
27.5°	1094.9	793.6	324.9	185.5	166.4	156.2	151.8	150.6	152.9	154.0	154.0
30°	1133.1	789.1	288.9	172.0	155.1	145.0	140.5	140.5	143.9	148.4	148.4
32.5°	1170.2	792.5	260.8	160.7	143.9	136.0	131.5	132.6	139.4	146.1	146.1
35°	1209.5	799.2	243.9	152.9	136.0	128.1	124.8	128.1	134.9	141.6	141.6
37.5°	1248.9	807.1	233.8	146.1	129.3	121.4	119.2	123.6	131.5	138.3	139.4
40°	1290.4	813.8	222.6	139.4	124.8	115.8	114.7	119.2	129.3	136.0	137.1
42.5°	1342.2	827.3	209.1	133.8	120.3	109.0	110.2	113.5	123.6	133.8	134.9
45°	1443.3	870.0	195.6	128.1	114.7	105.7	103.4	105.7	116.9	128.1	130.4
47.5°	1633.3	966.7	181.0	122.5	109.0	103.4	94.4	96.7	106.8	119.2	120.3
50°	1997.5	1172.4	173.1	116.9	104.5	95.5	85.4	85.4	93.3	104.5	104.5
52.5°	2565.2	1541.1	177.6	112.4	98.9	87.7	77.6	76.4	80.9	88.8	88.8
55°	3177.8	1945.8	194.5	107.9	92.2	83.2	71.9	66.3	69.7	74.2	74.2
57.5°	3663.4	2149.2	240.6	105.7	84.3	79.8	65.2	57.3	60.7	65.2	65.2
60°	3877.0	2030.1	292.3	107.9	78.7	74.2	58.5	50.6	56.2	60.7	61.8
62.5°	3703.9	1671.5	313.6	102.3	70.8	66.3	57.3	47.2	54.0	57.3	58.5
65°	3329.5	1270.2	245.1	88.8	65.2	57.3	51.7	45.0	50.6	54.0	54.0
66°	3151.9	1107.2	209.1	82.1	62.9	54.0	49.5	45.0	49.5	51.7	52.8
67.5°	2876.5	873.4	155.1	71.9	58.5	49.5	46.1	42.7	47.2	49.5	49.5
70°	2249.3	520.5	93.3	56.2	50.6	43.8	41.6	39.3	42.7	43.8	43.8
72.5°	1408.5	247.3	59.6	41.6	42.7	41.6	34.8	37.1	38.2	39.3	39.3
75°	682.3	97.8	40.5	30.4	34.8	39.3	28.1	32.6	33.7	36.0	34.8
77.5°	190.0	47.2	25.9	22.5	30.4	30.4	21.4	25.9	30.4	38.2	34.8
80°	55.1	30.4	16.9	16.9	21.4	21.4	14.6	18.0	20.2	22.5	23.6
82.5°	38.2	20.2	11.2	12.4	12.4	13.5	9.0	9.0	11.2	11.2	12.4
85°	30.4	9.0	6.7	7.9	5.6	6.7	4.5	4.5	5.6	4.5	4.5
87.5°	12.4	4.5	4.5	4.5	3.4	3.4	2.2	1.1	1.1	1.1	1.1
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)