

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: P1210280

Luminaire Tested: **ARCH2-70-750-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210280
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: ARCH2-70-750-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7651 lumens
Efficiency: N/A
Efficacy: 104.0 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

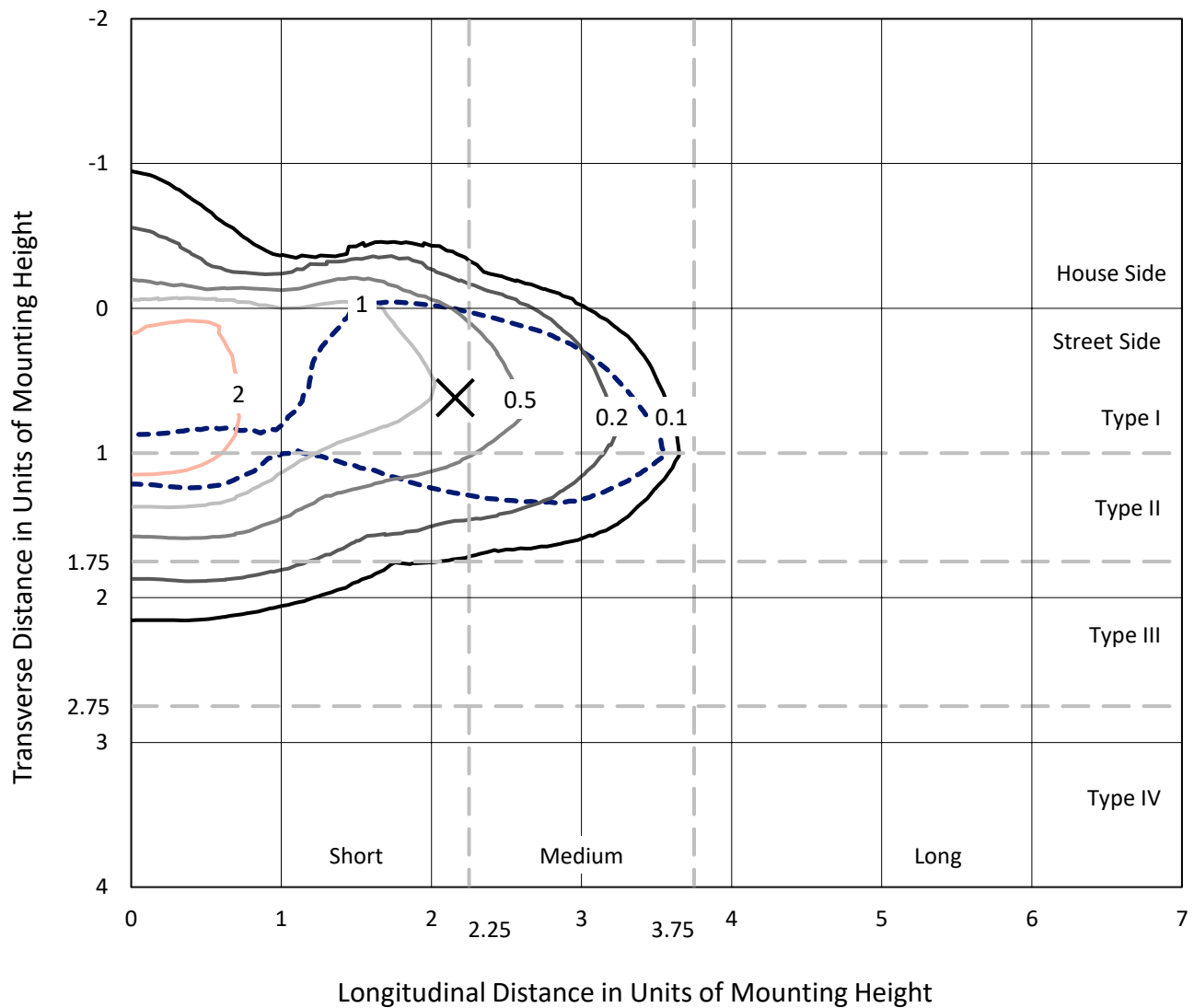
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

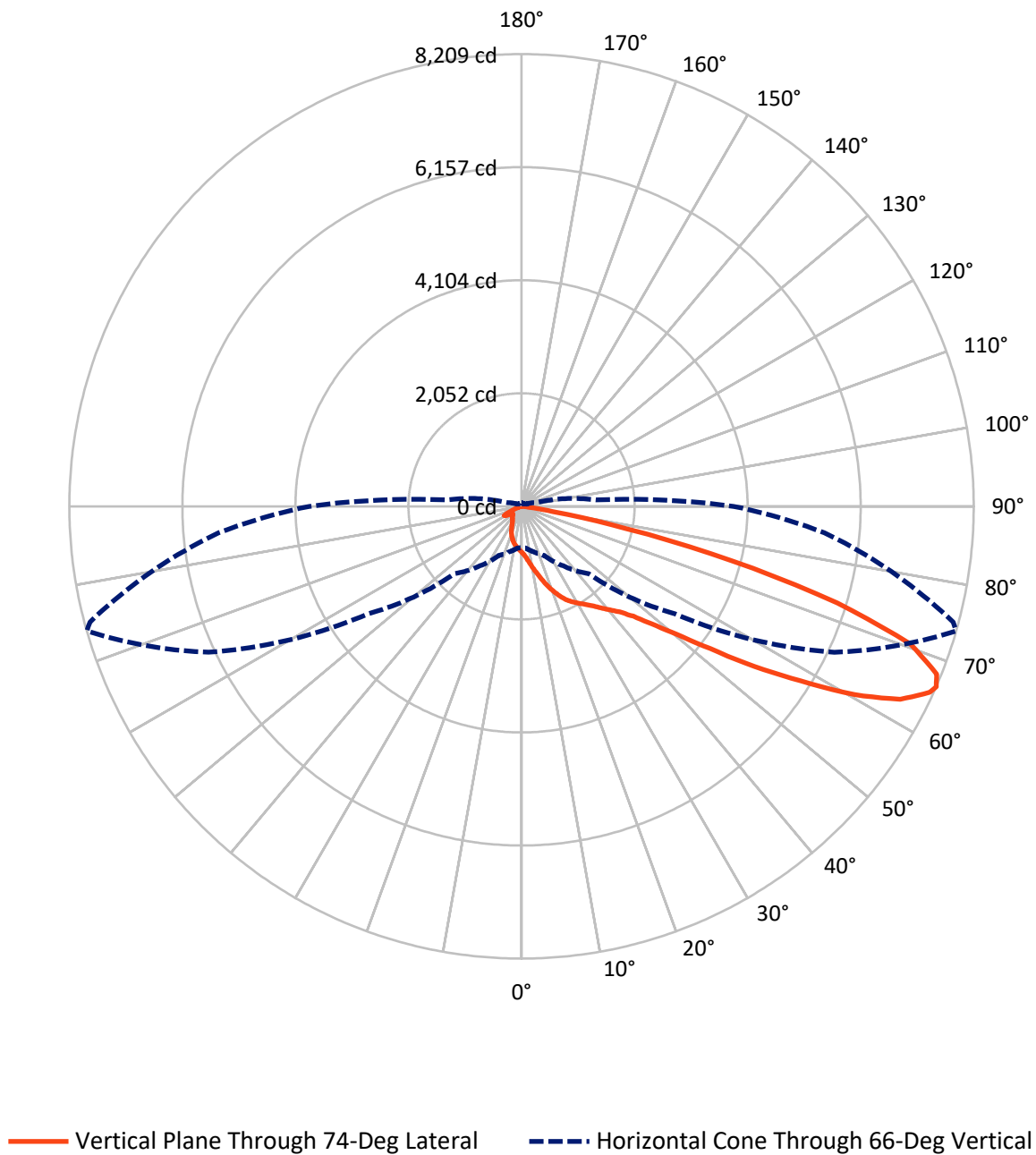
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	750.0	0.0	750.0
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	6901.0	0.0	6901.0
	% Fixture	90.2	0.0	90.2
Total	Lumens	7651.0	0.0	7651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	1.1
10°-20°	261.3	3.4
20°-30°	498.7	6.5
30°-40°	874.2	11.4
40°-50°	1499.0	19.6
50°-60°	1949.5	25.5
60°-70°	1764.8	23.1
70°-80°	681.0	8.9
80°-90°	41.0	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°	7651.0	100.0
0°-180°	7651.0	100.0

Coefficient of Utilization



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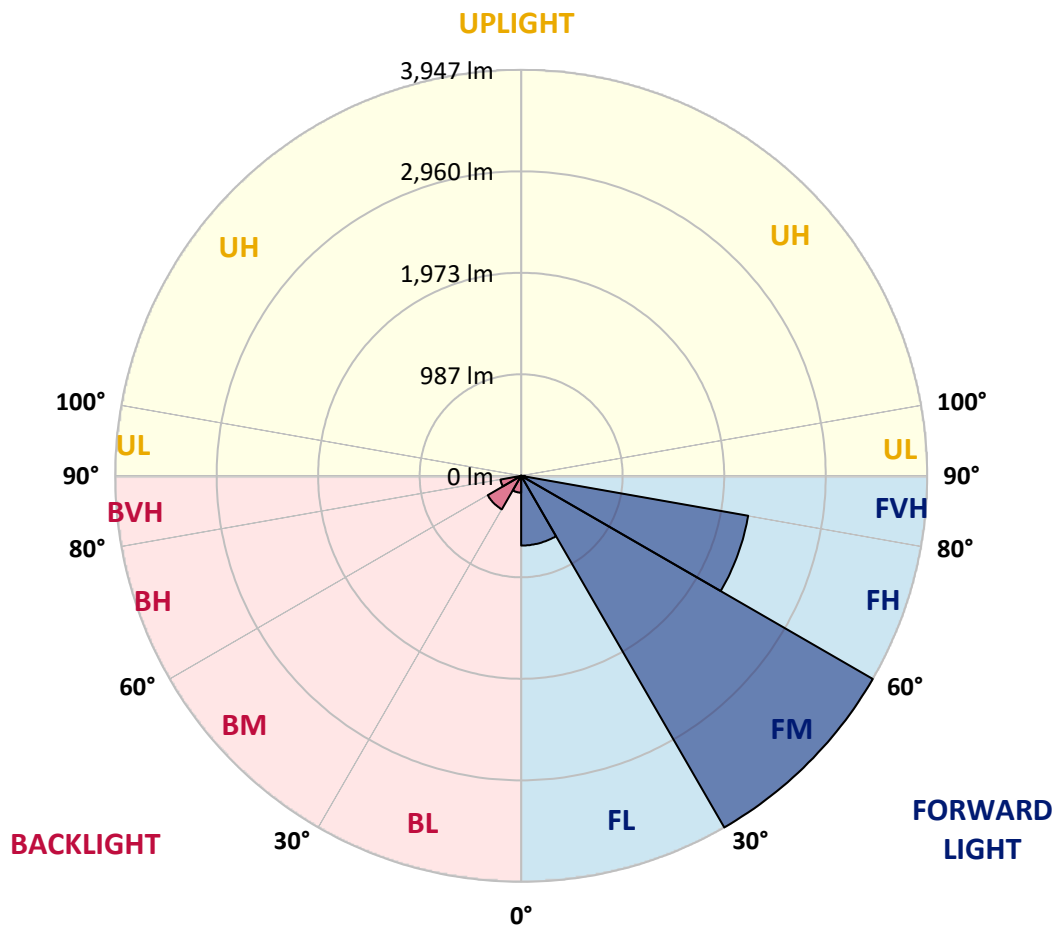
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	678.0	8.9			
FM	(30°-60°)	3946.8	51.6			
FH	(60°-80°)	2240.7	29.3			G2/5000
FVH	(80°-90°)	35.5	0.5			G1/100
BL	(0°-30°)	163.6	2.1	B1/500		
BM	(30°-60°)	375.9	4.9	B1/1000		
BH	(60°-80°)	205.0	2.7	B1/500		G1/500
BVH	(80°-90°)	5.5	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°	835.2	835.2	835.2	835.2	835.2	835.2	835.2	835.2	835.2	835.2	835.2
2.5°	1002.8	994.5	979.4	978.0	965.7	950.6	924.5	897.0	877.8	875.0	851.7
5°	1200.6	1196.4	1181.3	1171.7	1148.4	1112.6	1052.2	991.8	940.9	935.4	883.3
7.5°	1252.8	1255.5	1258.3	1267.9	1259.6	1243.1	1197.8	1112.6	1033.0	1020.6	930.0
10°	1261.0	1258.3	1258.3	1270.6	1294.0	1317.3	1311.8	1239.0	1136.0	1120.9	994.5
12.5°	1350.3	1354.4	1344.8	1339.3	1335.2	1347.5	1388.7	1357.2	1244.5	1232.2	1072.8
15°	1465.7	1464.3	1450.6	1450.6	1438.2	1417.6	1443.7	1467.0	1375.0	1359.9	1162.1
17.5°	1549.5	1555.0	1553.6	1561.8	1557.7	1530.2	1516.5	1564.6	1509.6	1490.4	1263.7
20°	1616.8	1631.9	1637.4	1663.5	1675.8	1656.6	1620.9	1651.1	1638.8	1620.9	1366.8
22.5°	1688.2	1700.6	1710.2	1755.5	1789.9	1785.7	1740.4	1733.5	1763.8	1747.3	1468.4
25°	1759.6	1765.1	1794.0	1848.9	1903.9	1917.6	1870.9	1817.3	1876.4	1861.3	1559.1
27.5°	1837.9	1840.7	1875.0	1942.3	2019.2	2048.1	2011.0	1912.1	1962.9	1962.9	1641.5
30°	1980.8	2008.3	2022.0	2082.4	2149.7	2189.6	2145.6	2012.4	2039.9	2052.2	1728.0
32.5°	2288.5	2292.6	2288.5	2314.6	2328.3	2351.7	2300.8	2125.0	2118.2	2131.9	1813.2
35°	2758.3	2741.8	2697.8	2659.4	2579.7	2535.7	2469.8	2269.3	2214.3	2233.5	1897.0
37.5°	3328.3	3305.0	3204.7	3086.6	2916.2	2740.4	2658.0	2445.1	2336.6	2361.3	1987.7
40°	3872.3	3857.2	3737.7	3592.1	3300.9	3000.0	2825.6	2593.4	2472.6	2482.2	2079.7
42.5°	4320.1	4317.3	4217.1	4064.6	3691.0	3280.3	3023.4	2739.0	2615.4	2630.5	2175.8
45°	4659.4	4633.3	4559.1	4449.2	4068.7	3571.5	3262.4	2960.2	2844.8	2862.7	2320.1
47.5°	4659.4	4663.5	4711.6	4700.6	4332.5	3844.8	3523.4	3239.0	3184.1	3200.6	2557.7
50°	4280.3	4318.7	4533.0	4713.0	4469.8	4057.7	3805.0	3587.9	3644.3	3669.0	2972.6
52.5°	3530.3	3594.8	3967.1	4377.8	4368.2	4164.9	4096.2	4031.6	4284.4	4328.3	3585.2
55°	2682.7	2725.3	3210.2	3750.0	3925.9	4077.0	4350.3	4594.8	5131.9	5122.3	4207.5
57.5°	2004.1	2044.0	2461.6	3060.5	3292.6	3696.5	4480.8	5239.1	5972.6	6009.7	4791.3
60°	1473.9	1504.1	1859.9	2351.7	2686.8	3114.0	4428.6	5873.7	6941.0	6898.4	5306.4
62.5°	1090.7	1107.2	1364.0	1684.1	2129.1	2537.1	4100.3	6307.8	7714.4	7627.8	5593.5
65°	843.4	848.9	982.2	1152.5	1548.1	1972.5	3611.3	6373.7	8141.6	8049.5	5588.0
66°	751.4	755.5	853.0	984.9	1317.3	1726.7	3397.0	6267.9	8208.9	8111.3	5519.3
67.5°	630.5	627.8	685.4	772.0	989.0	1332.4	3016.5	5958.8	8129.2	8079.7	5299.5
70°	467.0	468.4	497.3	517.9	578.3	737.6	2178.6	5169.0	7491.8	7489.1	4696.5
72.5°	346.2	350.3	372.3	376.4	361.3	399.7	1255.5	4111.3	5993.2	5994.6	3511.0
75°	259.6	266.5	273.4	276.1	262.4	252.7	567.3	2766.5	3942.3	3913.5	1987.7
77.5°	197.8	200.6	206.0	201.9	199.2	174.5	236.3	1348.9	1946.4	1773.4	644.2
80°	144.2	144.2	149.7	144.2	142.9	125.0	129.1	432.7	571.4	475.3	138.7
82.5°	90.7	89.3	93.4	92.0	89.3	79.7	75.6	120.9	131.9	118.1	67.3
85°	50.8	49.5	48.1	46.7	42.6	35.7	41.2	45.3	60.4	61.8	48.1
87.5°	17.9	17.9	16.5	15.1	12.4	12.4	15.1	15.1	22.0	22.0	24.7
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°	835.2	835.2	835.2	835.2	835.2	835.2	835.2	835.2	835.2	835.2	835.2
2.5°	840.7	825.6	803.6	774.7	754.1	733.5	711.5	699.2	681.3	677.2	682.7
5°	855.8	828.3	773.4	712.9	660.7	614.0	570.1	544.0	517.9	508.2	512.4
7.5°	887.4	840.7	747.3	649.7	563.2	493.1	440.9	410.7	387.4	377.8	380.5
10°	934.1	862.6	722.5	578.3	467.0	392.9	348.9	329.7	315.9	310.4	311.8
12.5°	990.4	894.2	690.9	506.9	384.6	320.1	299.5	295.3	292.6	289.8	291.2
15°	1053.6	921.7	653.9	436.8	320.1	284.3	277.5	276.1	274.7	274.7	274.7
17.5°	1119.5	946.4	612.6	370.9	278.8	262.4	258.2	258.2	258.2	259.6	259.6
20°	1181.3	965.7	564.6	311.8	255.5	241.8	239.0	239.0	240.4	241.8	241.8
22.5°	1241.8	973.9	508.2	270.6	236.3	223.9	219.8	219.8	219.8	221.2	221.2
25°	1294.0	973.9	451.9	244.5	219.8	207.4	201.9	200.6	201.9	201.9	201.9
27.5°	1337.9	969.8	397.0	226.7	203.3	190.9	185.4	184.1	186.8	188.2	188.2
30°	1384.6	964.3	353.0	210.2	189.6	177.2	171.7	171.7	175.8	181.3	181.3
32.5°	1430.0	968.4	318.7	196.4	175.8	166.2	160.7	162.1	170.3	178.6	178.6
35°	1478.0	976.7	298.1	186.8	166.2	156.6	152.5	156.6	164.8	173.1	173.1
37.5°	1526.1	986.3	285.7	178.6	158.0	148.4	145.6	151.1	160.7	169.0	170.3
40°	1576.9	994.5	272.0	170.3	152.5	141.5	140.1	145.6	158.0	166.2	167.6
42.5°	1640.1	1011.0	255.5	163.5	147.0	133.2	134.6	138.7	151.1	163.5	164.8
45°	1763.8	1063.2	239.0	156.6	140.1	129.1	126.4	129.1	142.9	156.6	159.3
47.5°	1995.9	1181.3	221.2	149.7	133.2	126.4	115.4	118.1	130.5	145.6	147.0
50°	2441.0	1432.7	211.5	142.9	127.7	116.8	104.4	104.4	114.0	127.7	127.7
52.5°	3134.6	1883.3	217.0	137.4	120.9	107.1	94.8	93.4	98.9	108.5	108.5
55°	3883.3	2377.8	237.6	131.9	112.6	101.6	87.9	81.0	85.2	90.7	90.7
57.5°	4476.7	2626.4	294.0	129.1	103.0	97.5	79.7	70.1	74.2	79.7	79.7
60°	4737.7	2480.8	357.1	131.9	96.2	90.7	71.4	61.8	68.7	74.2	75.6
62.5°	4526.1	2042.6	383.2	125.0	86.5	81.0	70.1	57.7	65.9	70.1	71.4
65°	4068.7	1552.2	299.5	108.5	79.7	70.1	63.2	54.9	61.8	65.9	65.9
66°	3851.7	1353.0	255.5	100.3	76.9	65.9	60.4	54.9	60.4	63.2	64.6
67.5°	3515.1	1067.3	189.6	87.9	71.4	60.4	56.3	52.2	57.7	60.4	60.4
70°	2748.7	636.0	114.0	68.7	61.8	53.6	50.8	48.1	52.2	53.6	53.6
72.5°	1721.2	302.2	72.8	50.8	52.2	50.8	42.6	45.3	46.7	48.1	48.1
75°	833.8	119.5	49.5	37.1	42.6	48.1	34.3	39.8	41.2	44.0	42.6
77.5°	232.1	57.7	31.6	27.5	37.1	37.1	26.1	31.6	37.1	46.7	42.6
80°	67.3	37.1	20.6	20.6	26.1	26.1	17.9	22.0	24.7	27.5	28.8
82.5°	46.7	24.7	13.7	15.1	15.1	16.5	11.0	11.0	13.7	13.7	15.1
85°	37.1	11.0	8.2	9.6	6.9	8.2	5.5	5.5	6.9	5.5	5.5
87.5°	15.1	5.5	5.5	5.5	4.1	4.1	2.7	1.4	1.4	1.4	1.4
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)