

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: P1210712

Luminaire Tested: **ARCH3-50-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210712
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: ARCH3-50-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5964 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 53.6
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



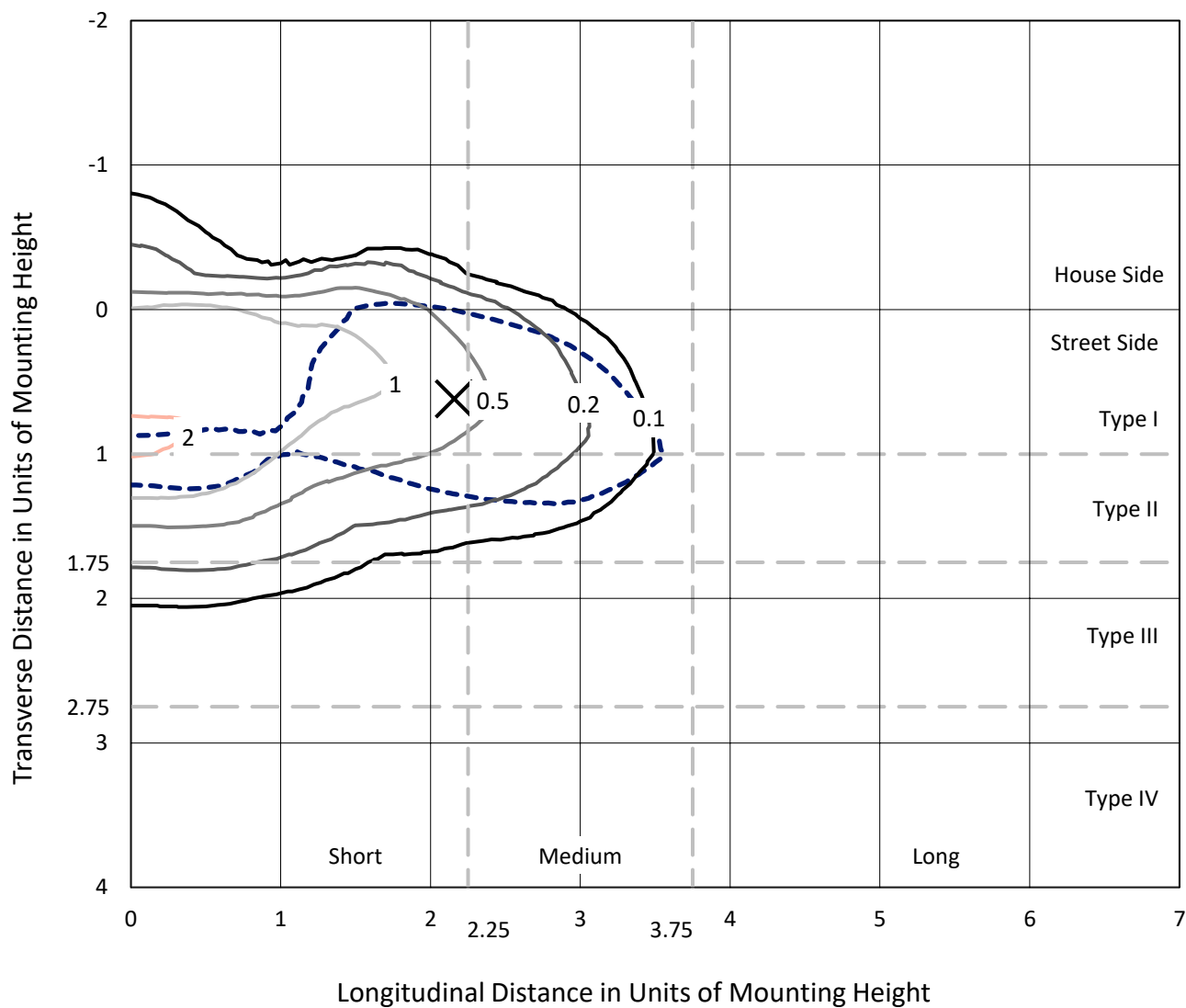
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

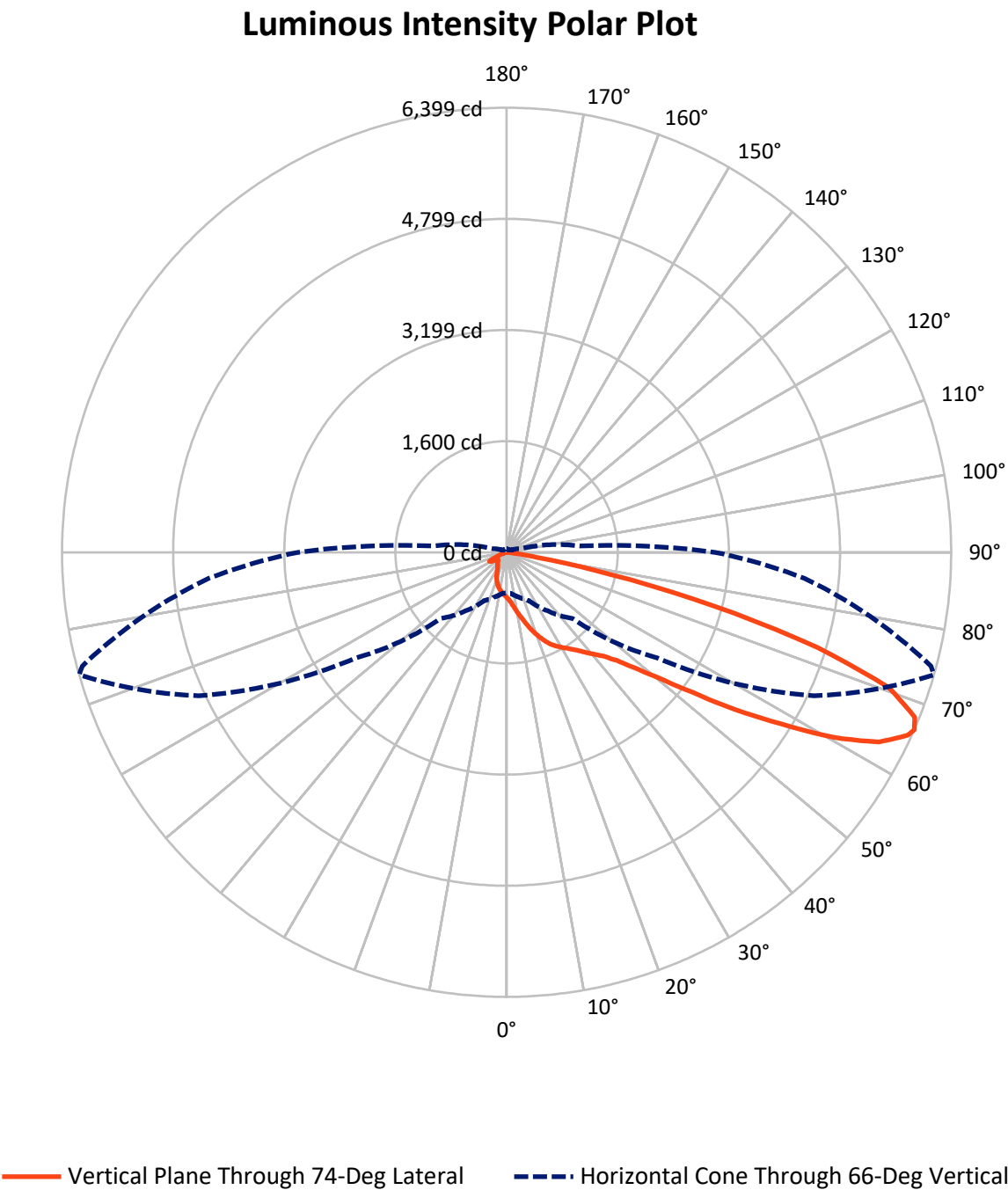
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc

Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	584.7	0.0	584.7
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	5379.3	0.0	5379.3
	% Fixture	90.2	0.0	90.2
Total	Lumens	5964.0	0.0	5964.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	1.1
10°-20°	203.7	3.4
20°-30°	388.8	6.5
30°-40°	681.4	11.4
40°-50°	1168.5	19.6
50°-60°	1519.7	25.5
60°-70°	1375.7	23.1
70°-80°	530.8	8.9
80°-90°	31.9	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°	5964.0	100.0
0°-180°	5964.0	100.0

Coefficient of Utilization



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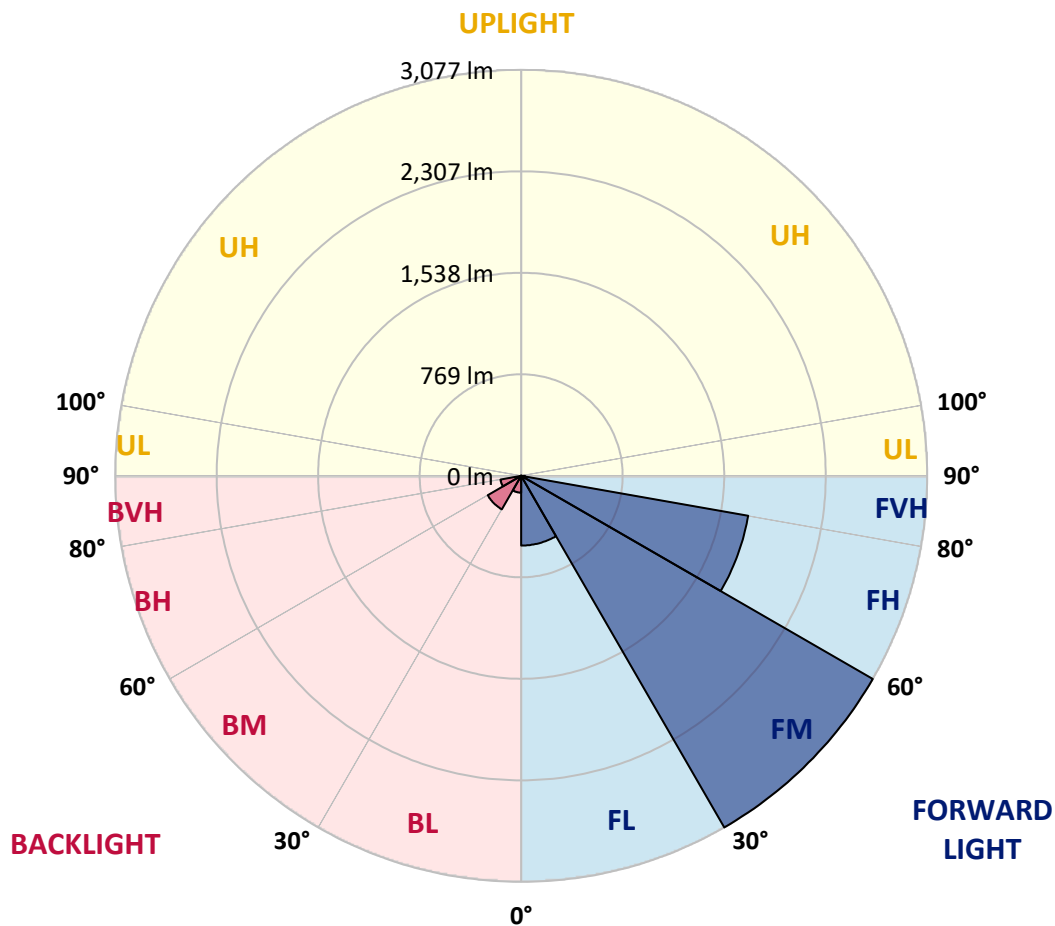
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	528.5	8.9			
FM	(30°-60°)	3076.5	51.6			
FH	(60°-80°)	1746.6	29.3			G1/1800
FVH	(80°-90°)	27.7	0.5			G1/100
BL	(0°-30°)	127.5	2.1	B1/500		
BM	(30°-60°)	293.0	4.9	B1/1000		
BH	(60°-80°)	159.8	2.7	B1/500		G1/500
BVH	(80°-90°)	4.3	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0
2.5°	781.7	775.2	763.5	762.4	752.7	741.0	720.6	699.2	684.2	682.1	663.9
5°	935.8	932.6	920.9	913.4	895.2	867.3	820.2	773.1	733.5	729.2	688.5
7.5°	976.5	978.7	980.8	988.3	981.9	969.0	933.7	867.3	805.2	795.6	724.9
10°	983.0	980.8	980.8	990.5	1008.7	1026.9	1022.6	965.8	885.5	873.7	775.2
12.5°	1052.6	1055.8	1048.3	1044.0	1040.8	1050.4	1082.5	1057.9	970.1	960.5	836.3
15°	1142.5	1141.4	1130.7	1130.7	1121.1	1105.0	1125.4	1143.6	1071.8	1060.1	905.9
17.5°	1207.8	1212.1	1211.0	1217.5	1214.2	1192.8	1182.1	1219.6	1176.8	1161.8	985.1
20°	1260.3	1272.1	1276.3	1296.7	1306.3	1291.3	1263.5	1287.1	1277.4	1263.5	1065.4
22.5°	1316.0	1325.6	1333.1	1368.4	1395.2	1392.0	1356.7	1351.3	1374.9	1362.0	1144.6
25°	1371.6	1375.9	1398.4	1441.2	1484.1	1494.8	1458.4	1416.6	1462.7	1450.9	1215.3
27.5°	1432.7	1434.8	1461.6	1514.1	1574.0	1596.5	1567.6	1490.5	1530.1	1530.1	1279.6
30°	1544.0	1565.5	1576.2	1623.3	1675.7	1706.8	1672.5	1568.7	1590.1	1599.7	1347.0
32.5°	1783.9	1787.1	1783.9	1804.2	1814.9	1833.1	1793.5	1656.5	1651.1	1661.8	1413.4
35°	2150.1	2137.2	2103.0	2073.0	2010.9	1976.6	1925.2	1768.9	1726.1	1741.1	1478.7
37.5°	2594.5	2576.2	2498.1	2406.0	2273.2	2136.2	2071.9	1906.0	1821.4	1840.6	1549.4
40°	3018.5	3006.7	2913.5	2800.0	2573.0	2338.5	2202.6	2021.6	1927.4	1934.9	1621.1
42.5°	3367.5	3365.4	3287.2	3168.4	2877.1	2557.0	2356.7	2135.1	2038.7	2050.5	1696.1
45°	3632.0	3611.7	3553.9	3468.2	3171.6	2784.0	2543.1	2307.5	2217.5	2231.5	1808.5
47.5°	3632.0	3635.2	3672.7	3664.1	3377.2	2997.1	2746.5	2524.9	2482.0	2494.9	1993.8
50°	3336.5	3366.5	3533.5	3673.8	3484.3	3163.0	2966.0	2796.8	2840.7	2860.0	2317.1
52.5°	2751.9	2802.2	3092.4	3412.5	3405.0	3246.5	3193.0	3142.7	3339.7	3374.0	2794.7
55°	2091.2	2124.4	2502.4	2923.2	3060.2	3178.0	3391.1	3581.7	4000.4	3992.9	3279.7
57.5°	1562.2	1593.3	1918.8	2385.7	2566.6	2881.4	3492.8	4083.9	4655.7	4684.6	3734.8
60°	1148.9	1172.5	1449.8	1833.1	2094.4	2427.4	3452.1	4578.6	5410.6	5377.4	4136.3
62.5°	850.2	863.0	1063.3	1312.8	1659.7	1977.7	3196.2	4916.9	6013.4	5945.9	4360.1
65°	657.4	661.7	765.6	898.4	1206.7	1537.6	2815.0	4968.3	6346.4	6274.7	4355.9
66°	585.7	588.9	664.9	767.7	1026.9	1345.9	2648.0	4885.9	6398.9	6322.8	4302.3
67.5°	491.5	489.3	534.3	601.8	770.9	1038.6	2351.4	4645.0	6336.8	6298.2	4131.0
70°	364.1	365.1	387.6	403.7	450.8	575.0	1698.2	4029.3	5839.9	5837.8	3660.9
72.5°	269.8	273.0	290.2	293.4	281.6	311.6	978.7	3204.8	4671.7	4672.8	2736.9
75°	202.4	207.7	213.1	215.2	204.5	197.0	442.2	2156.5	3073.1	3050.6	1549.4
77.5°	154.2	156.3	160.6	157.4	155.3	136.0	184.2	1051.5	1517.3	1382.4	502.2
80°	112.4	112.4	116.7	112.4	111.4	97.4	100.7	337.3	445.4	370.5	108.1
82.5°	70.7	69.6	72.8	71.7	69.6	62.1	58.9	94.2	102.8	92.1	52.5
85°	39.6	38.5	37.5	36.4	33.2	27.8	32.1	35.3	47.1	48.2	37.5
87.5°	13.9	13.9	12.8	11.8	9.6	9.6	11.8	11.8	17.1	17.1	19.3
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°	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0
2.5°	655.3	643.5	626.4	603.9	587.8	571.8	554.7	545.0	531.1	527.9	532.2
5°	667.1	645.7	602.8	555.7	515.0	478.6	444.4	424.0	403.7	396.2	399.4
7.5°	691.7	655.3	582.5	506.5	439.0	384.4	343.7	320.2	302.0	294.5	296.6
10°	728.1	672.4	563.2	450.8	364.1	306.2	272.0	257.0	246.3	242.0	243.1
12.5°	772.0	697.1	538.6	395.1	299.8	249.5	233.4	230.2	228.1	225.9	227.0
15°	821.3	718.5	509.7	340.5	249.5	221.6	216.3	215.2	214.2	214.2	214.2
17.5°	872.7	737.8	477.6	289.1	217.4	204.5	201.3	201.3	201.3	202.4	202.4
20°	920.9	752.7	440.1	243.1	199.2	188.5	186.3	186.3	187.4	188.5	188.5
22.5°	968.0	759.2	396.2	210.9	184.2	174.5	171.3	171.3	171.3	172.4	172.4
25°	1008.7	759.2	352.3	190.6	171.3	161.7	157.4	156.3	157.4	157.4	157.4
27.5°	1042.9	756.0	309.4	176.7	158.5	148.8	144.6	143.5	145.6	146.7	146.7
30°	1079.3	751.7	275.2	163.8	147.8	138.1	133.8	133.8	137.1	141.3	141.3
32.5°	1114.7	754.9	248.4	153.1	137.1	129.6	125.3	126.3	132.8	139.2	139.2
35°	1152.1	761.3	232.4	145.6	129.6	122.1	118.9	122.1	128.5	134.9	134.9
37.5°	1189.6	768.8	222.7	139.2	123.1	115.6	113.5	117.8	125.3	131.7	132.8
40°	1229.2	775.2	212.0	132.8	118.9	110.3	109.2	113.5	123.1	129.6	130.6
42.5°	1278.5	788.1	199.2	127.4	114.6	103.9	104.9	108.1	117.8	127.4	128.5
45°	1374.9	828.8	186.3	122.1	109.2	100.7	98.5	100.7	111.4	122.1	124.2
47.5°	1555.8	920.9	172.4	116.7	103.9	98.5	89.9	92.1	101.7	113.5	114.6
50°	1902.7	1116.8	164.9	111.4	99.6	91.0	81.4	81.4	88.9	99.6	99.6
52.5°	2443.5	1468.0	169.2	107.1	94.2	83.5	73.9	72.8	77.1	84.6	84.6
55°	3027.0	1853.5	185.2	102.8	87.8	79.2	68.5	63.2	66.4	70.7	70.7
57.5°	3489.6	2047.3	229.1	100.7	80.3	76.0	62.1	54.6	57.8	62.1	62.1
60°	3693.1	1933.8	278.4	102.8	75.0	70.7	55.7	48.2	53.5	57.8	58.9
62.5°	3528.2	1592.2	298.7	97.4	67.5	63.2	54.6	45.0	51.4	54.6	55.7
65°	3171.6	1210.0	233.4	84.6	62.1	54.6	49.3	42.8	48.2	51.4	51.4
66°	3002.4	1054.7	199.2	78.2	60.0	51.4	47.1	42.8	47.1	49.3	50.3
67.5°	2740.1	832.0	147.8	68.5	55.7	47.1	43.9	40.7	45.0	47.1	47.1
70°	2142.6	495.8	88.9	53.5	48.2	41.8	39.6	37.5	40.7	41.8	41.8
72.5°	1341.7	235.6	56.8	39.6	40.7	39.6	33.2	35.3	36.4	37.5	37.5
75°	650.0	93.2	38.5	28.9	33.2	37.5	26.8	31.1	32.1	34.3	33.2
77.5°	181.0	45.0	24.6	21.4	28.9	28.9	20.3	24.6	28.9	36.4	33.2
80°	52.5	28.9	16.1	16.1	20.3	20.3	13.9	17.1	19.3	21.4	22.5
82.5°	36.4	19.3	10.7	11.8	11.8	12.8	8.6	8.6	10.7	10.7	11.8
85°	28.9	8.6	6.4	7.5	5.4	6.4	4.3	4.3	5.4	4.3	4.3
87.5°	11.8	4.3	4.3	4.3	3.2	3.2	2.1	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)