

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: P1209980

Luminaire Tested: **ARCH1-40-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209980
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: ARCH1-40-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

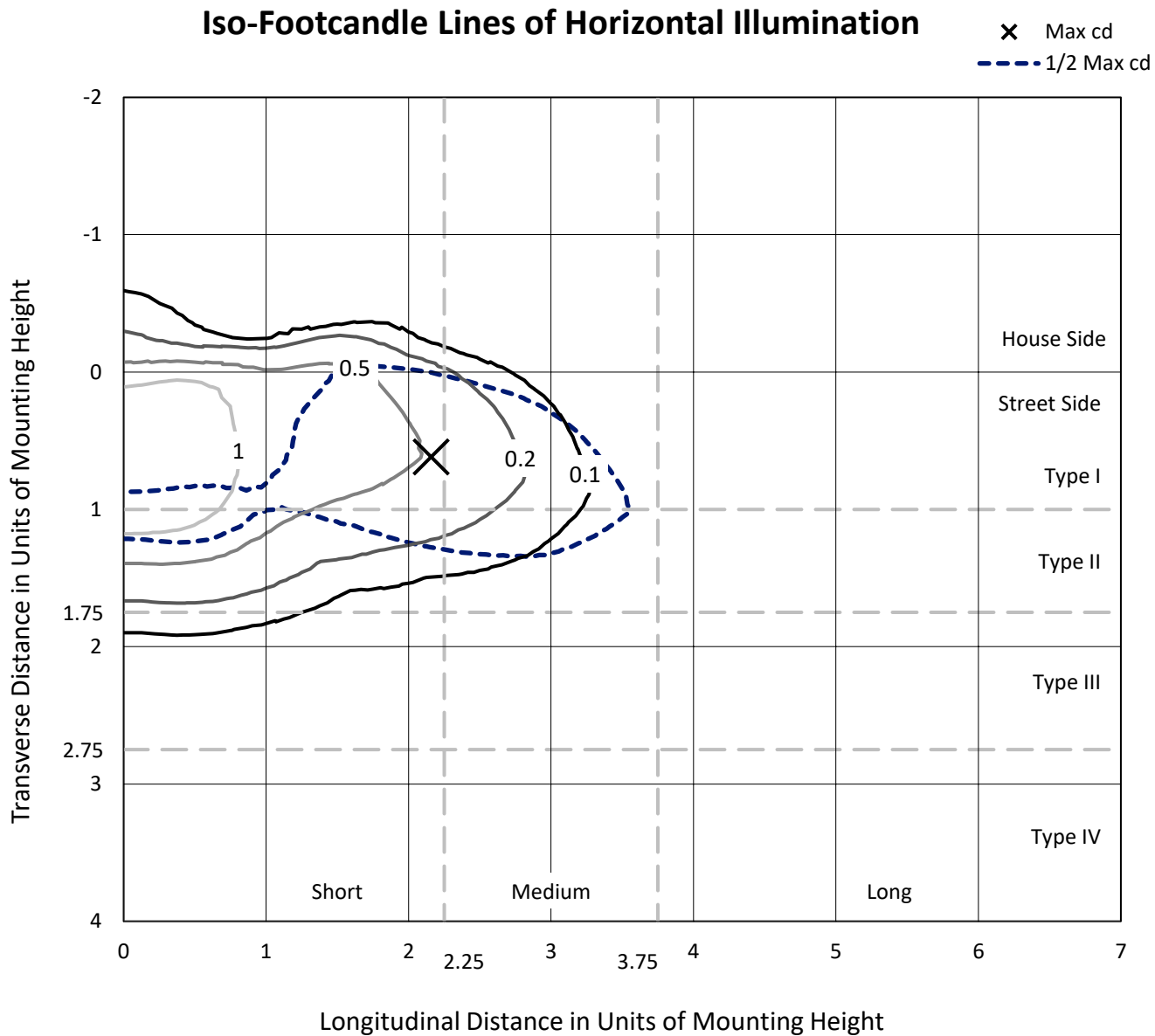
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4103 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 43
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

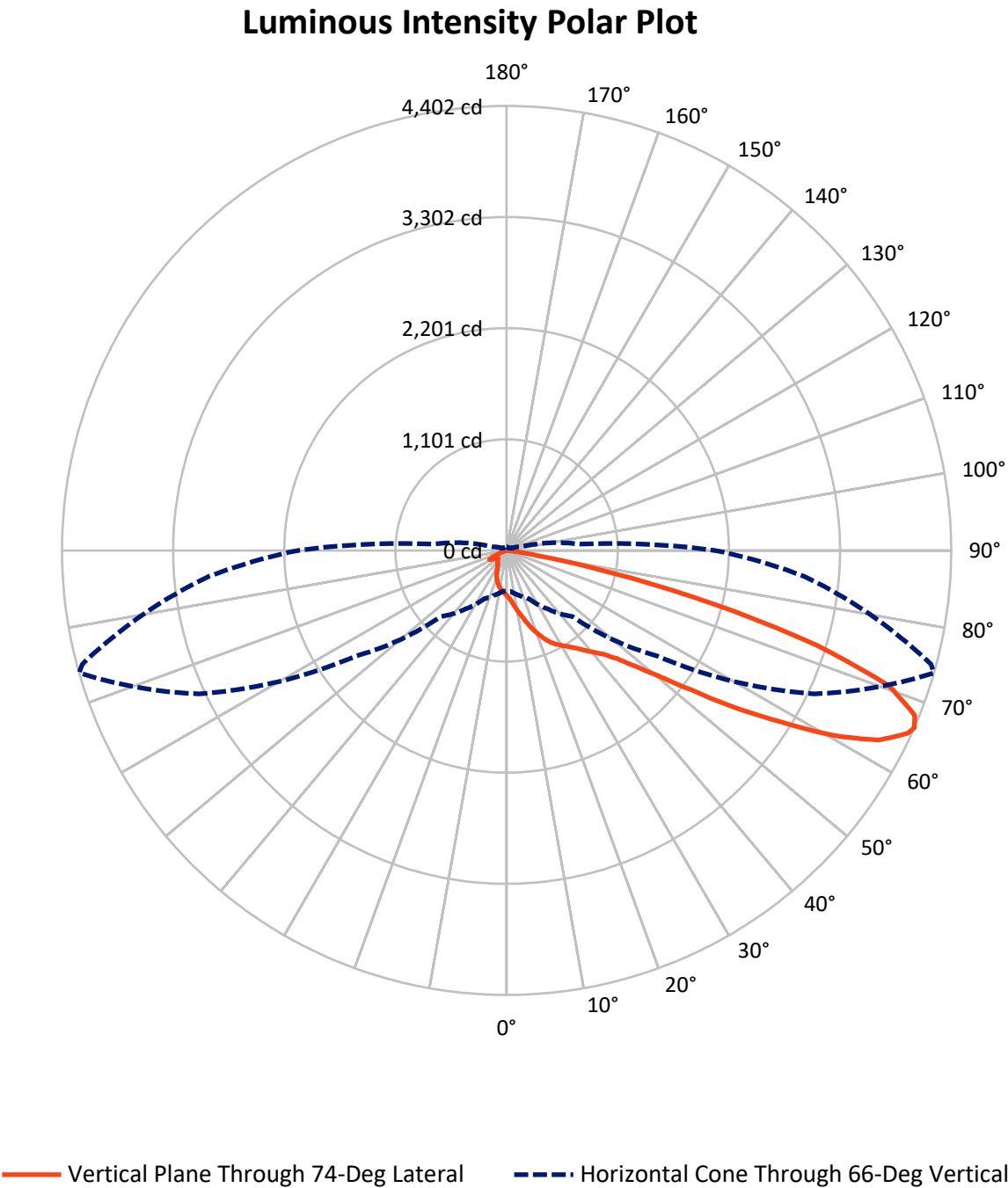


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Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	402.2	0.0	402.2
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	3700.8	0.0	3700.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	4103.0	0.0	4103.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.7	1.1
10°-20°	140.1	3.4
20°-30°	267.5	6.5
30°-40°	468.8	11.4
40°-50°	803.9	19.6
50°-60°	1045.5	25.5
60°-70°	946.4	23.1
70°-80°	365.2	8.9
80°-90°	22.0	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°	4103.0	100.0
0°-180°	4103.0	100.0

Coefficient of Utilization



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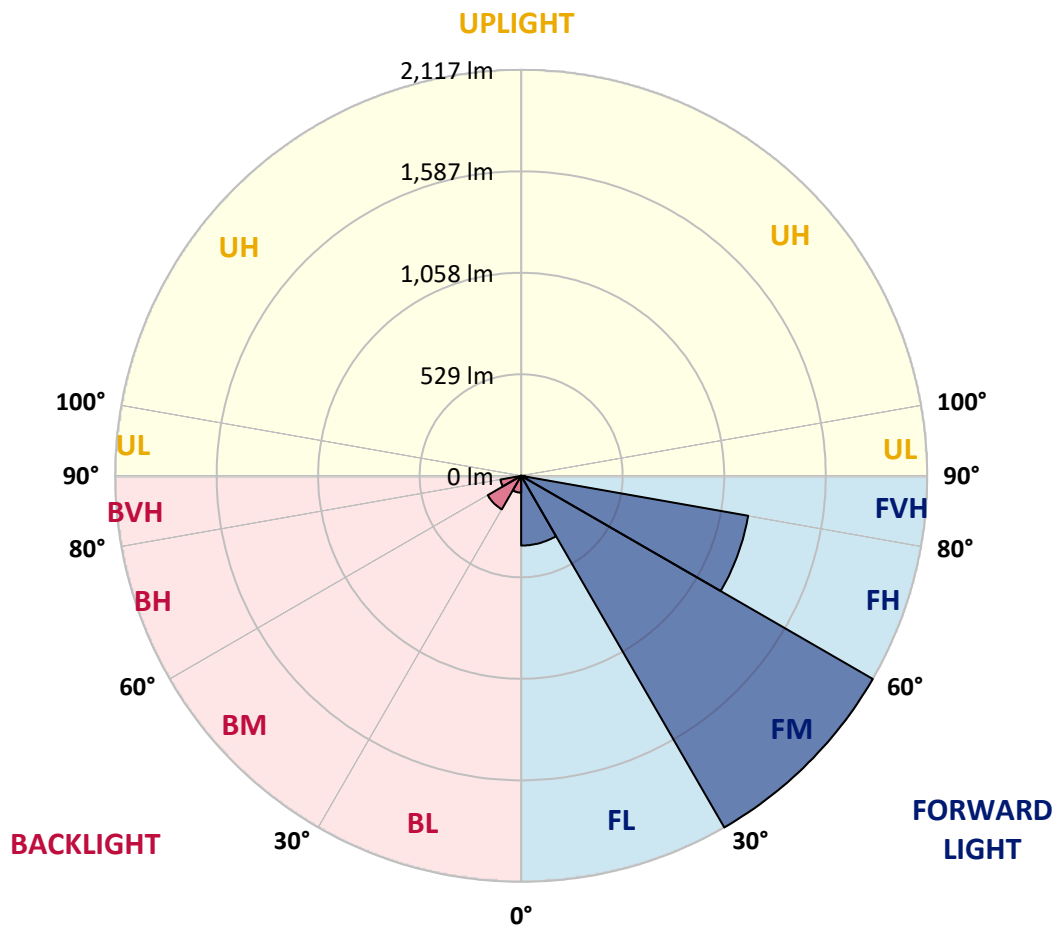
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	363.6	8.9			
FM	(30°-60°)	2116.5	51.6			
FH	(60°-80°)	1201.6	29.3			G1/1800
FVH	(80°-90°)	19.0	0.5			G1/100
BL	(0°-30°)	87.7	2.1	B0/110		
BM	(30°-60°)	201.6	4.9	B0/220		
BH	(60°-80°)	110.0	2.7	B0/110		G0/110
BVH	(80°-90°)	2.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9
2.5°	537.7	533.3	525.2	524.5	517.9	509.8	495.8	481.0	470.7	469.2	456.7
5°	643.8	641.6	633.5	628.4	615.8	596.7	564.3	531.9	504.6	501.7	473.7
7.5°	671.8	673.3	674.8	679.9	675.5	666.7	642.4	596.7	554.0	547.3	498.7
10°	676.2	674.8	674.8	681.4	693.9	706.4	703.5	664.5	609.2	601.1	533.3
12.5°	724.1	726.3	721.2	718.2	716.0	722.6	744.7	727.8	667.4	660.8	575.3
15°	786.0	785.3	777.9	777.9	771.3	760.2	774.2	786.7	737.4	729.3	623.2
17.5°	830.9	833.9	833.1	837.6	835.4	820.6	813.3	839.0	809.6	799.3	677.7
20°	867.0	875.1	878.1	892.1	898.7	888.4	869.2	885.4	878.8	869.2	733.0
22.5°	905.3	912.0	917.1	941.4	959.8	957.6	933.3	929.6	945.8	937.0	787.5
25°	943.6	946.6	962.1	991.5	1021.0	1028.4	1003.3	974.6	1006.3	998.1	836.1
27.5°	985.6	987.1	1005.5	1041.6	1082.9	1098.3	1078.4	1025.4	1052.7	1052.7	880.3
30°	1062.2	1077.0	1084.3	1116.7	1152.8	1174.2	1150.6	1079.2	1093.9	1100.5	926.7
32.5°	1227.2	1229.5	1227.2	1241.2	1248.6	1261.1	1233.9	1139.6	1135.9	1143.3	972.4
35°	1479.2	1470.3	1446.8	1426.1	1383.4	1359.8	1324.5	1216.9	1187.5	1197.8	1017.3
37.5°	1784.9	1772.4	1718.6	1655.2	1563.9	1469.6	1425.4	1311.2	1253.0	1266.3	1065.9
40°	2076.6	2068.5	2004.4	1926.3	1770.1	1608.8	1515.3	1390.8	1326.0	1331.1	1115.3
42.5°	2316.7	2315.3	2261.5	2179.7	1979.4	1759.1	1621.3	1468.9	1402.6	1410.7	1166.8
45°	2498.7	2484.7	2444.9	2386.0	2181.9	1915.3	1749.5	1587.5	1525.6	1535.2	1244.2
47.5°	2498.7	2500.9	2526.7	2520.8	2323.4	2061.9	1889.5	1737.0	1707.5	1716.4	1371.6
50°	2295.4	2316.0	2430.9	2527.4	2397.0	2176.0	2040.5	1924.1	1954.3	1967.6	1594.1
52.5°	1893.2	1927.8	2127.4	2347.7	2342.5	2233.5	2196.7	2162.0	2297.6	2321.2	1922.6
55°	1438.7	1461.5	1721.5	2011.0	2105.3	2186.4	2332.9	2464.1	2752.1	2746.9	2256.3
57.5°	1074.8	1096.1	1320.1	1641.2	1765.7	1982.3	2402.9	2809.5	3202.9	3222.8	2569.4
60°	790.4	806.6	997.4	1261.1	1440.9	1670.0	2374.9	3149.9	3722.2	3699.4	2845.6
62.5°	584.9	593.7	731.5	903.1	1141.8	1360.6	2198.9	3382.7	4137.0	4090.6	2999.6
65°	452.3	455.2	526.7	618.0	830.2	1057.8	1936.6	3418.0	4366.1	4316.7	2996.7
66°	402.9	405.2	457.5	528.2	706.4	926.0	1821.7	3361.3	4402.2	4349.9	2959.8
67.5°	338.1	336.6	367.6	414.0	530.4	714.5	1617.7	3195.6	4359.4	4332.9	2842.0
70°	250.5	251.2	266.7	277.7	310.1	395.6	1168.3	2772.0	4017.6	4016.2	2518.6
72.5°	185.6	187.8	199.6	201.8	193.7	214.4	673.3	2204.8	3214.0	3214.7	1882.9
75°	139.2	142.9	146.6	148.1	140.7	135.5	304.2	1483.6	2114.2	2098.7	1065.9
77.5°	106.1	107.5	110.5	108.3	106.8	93.6	126.7	723.4	1043.8	951.0	345.5
80°	77.3	77.3	80.3	77.3	76.6	67.0	69.2	232.0	306.4	254.9	74.4
82.5°	48.6	47.9	50.1	49.4	47.9	42.7	40.5	64.8	70.7	63.4	36.1
85°	27.3	26.5	25.8	25.0	22.8	19.2	22.1	24.3	32.4	33.1	25.8
87.5°	9.6	9.6	8.8	8.1	6.6	6.6	8.1	8.1	11.8	11.8	13.3
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°	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9
2.5°	450.8	442.7	430.9	415.5	404.4	393.4	381.6	375.0	365.4	363.2	366.1
5°	458.9	444.2	414.7	382.3	354.3	329.3	305.7	291.7	277.7	272.6	274.8
7.5°	475.9	450.8	400.7	348.4	302.0	264.5	236.5	220.3	207.7	202.6	204.0
10°	500.9	462.6	387.5	310.1	250.5	210.7	187.1	176.8	169.4	166.5	167.2
12.5°	531.1	479.6	370.5	271.8	206.3	171.6	160.6	158.4	156.9	155.4	156.2
15°	565.0	494.3	350.6	234.3	171.6	152.5	148.8	148.1	147.3	147.3	147.3
17.5°	600.4	507.5	328.5	198.9	149.5	140.7	138.5	138.5	138.5	139.2	139.2
20°	633.5	517.9	302.8	167.2	137.0	129.6	128.2	128.2	128.9	129.6	129.6
22.5°	665.9	522.3	272.6	145.1	126.7	120.1	117.9	117.9	117.9	118.6	118.6
25°	693.9	522.3	242.4	131.1	117.9	111.2	108.3	107.5	108.3	108.3	108.3
27.5°	717.5	520.1	212.9	121.5	109.0	102.4	99.4	98.7	100.2	100.9	100.9
30°	742.5	517.1	189.3	112.7	101.7	95.0	92.1	92.1	94.3	97.2	97.2
32.5°	766.8	519.3	170.9	105.3	94.3	89.1	86.2	86.9	91.3	95.8	95.8
35°	792.6	523.8	159.9	100.2	89.1	84.0	81.8	84.0	88.4	92.8	92.8
37.5°	818.4	528.9	153.2	95.8	84.7	79.6	78.1	81.0	86.2	90.6	91.3
40°	845.7	533.3	145.9	91.3	81.8	75.9	75.1	78.1	84.7	89.1	89.9
42.5°	879.5	542.2	137.0	87.7	78.8	71.5	72.2	74.4	81.0	87.7	88.4
45°	945.8	570.2	128.2	84.0	75.1	69.2	67.8	69.2	76.6	84.0	85.5
47.5°	1070.3	633.5	118.6	80.3	71.5	67.8	61.9	63.4	70.0	78.1	78.8
50°	1309.0	768.3	113.4	76.6	68.5	62.6	56.0	56.0	61.1	68.5	68.5
52.5°	1681.0	1009.9	116.4	73.7	64.8	57.5	50.8	50.1	53.0	58.2	58.2
55°	2082.5	1275.1	127.4	70.7	60.4	54.5	47.1	43.5	45.7	48.6	48.6
57.5°	2400.7	1408.5	157.6	69.2	55.2	52.3	42.7	37.6	39.8	42.7	42.7
60°	2540.7	1330.4	191.5	70.7	51.6	48.6	38.3	33.1	36.8	39.8	40.5
62.5°	2427.2	1095.4	205.5	67.0	46.4	43.5	37.6	30.9	35.4	37.6	38.3
65°	2181.9	832.4	160.6	58.2	42.7	37.6	33.9	29.5	33.1	35.4	35.4
66°	2065.5	725.6	137.0	53.8	41.3	35.4	32.4	29.5	32.4	33.9	34.6
67.5°	1885.1	572.4	101.7	47.1	38.3	32.4	30.2	28.0	30.9	32.4	32.4
70°	1474.0	341.1	61.1	36.8	33.1	28.7	27.3	25.8	28.0	28.7	28.7
72.5°	923.0	162.1	39.0	27.3	28.0	27.3	22.8	24.3	25.0	25.8	25.8
75°	447.1	64.1	26.5	19.9	22.8	25.8	18.4	21.4	22.1	23.6	22.8
77.5°	124.5	30.9	16.9	14.7	19.9	19.9	14.0	16.9	19.9	25.0	22.8
80°	36.1	19.9	11.0	11.0	14.0	14.0	9.6	11.8	13.3	14.7	15.5
82.5°	25.0	13.3	7.4	8.1	8.1	8.8	5.9	5.9	7.4	7.4	8.1
85°	19.9	5.9	4.4	5.2	3.7	4.4	2.9	2.9	3.7	2.9	2.9
87.5°	8.1	2.9	2.9	2.9	2.2	2.2	1.5	0.7	0.7	0.7	0.7
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)