

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: P1210078

Luminaire Tested: **ARCH2-100-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-100-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9090 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

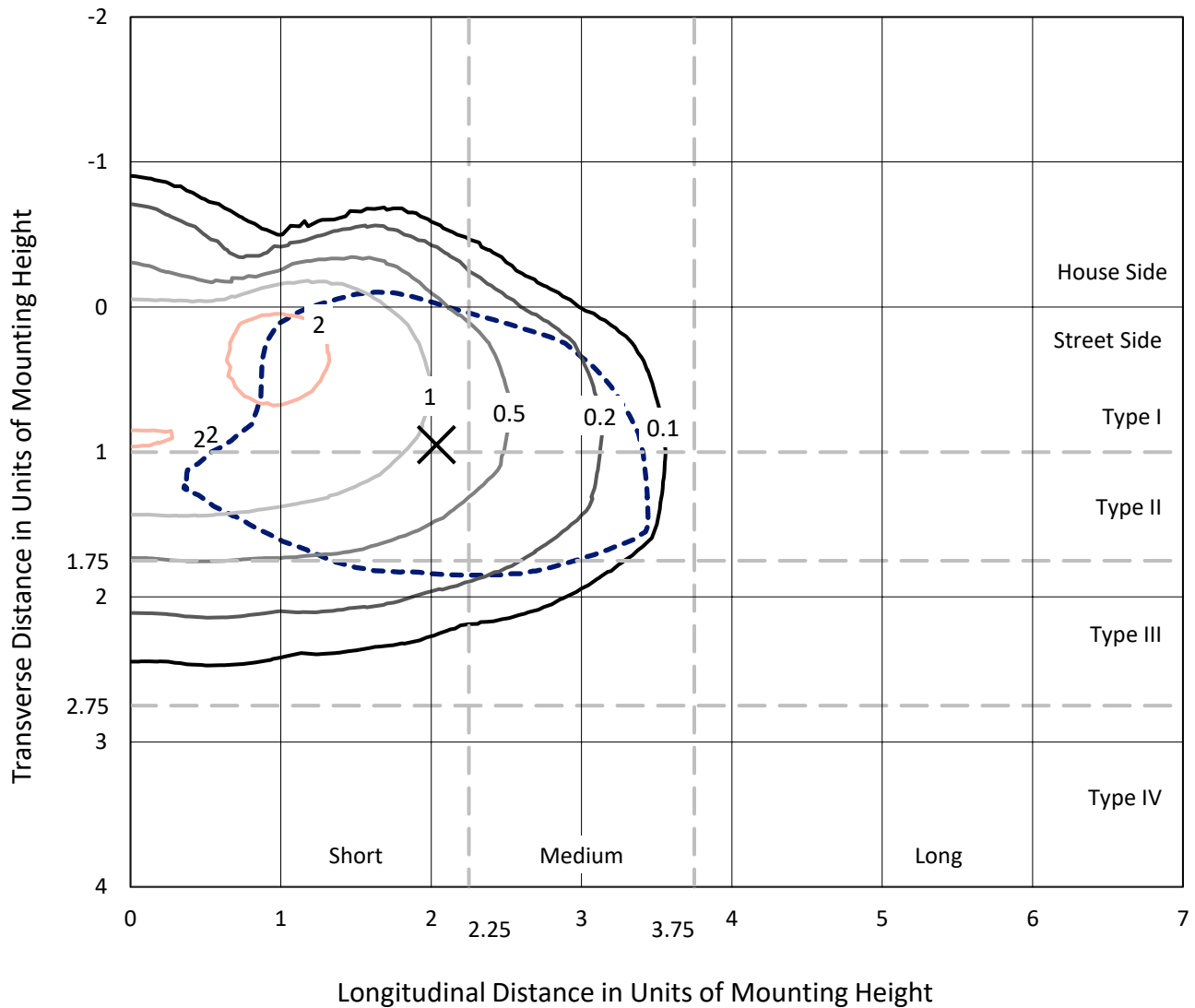
Input Watts (W): 103.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

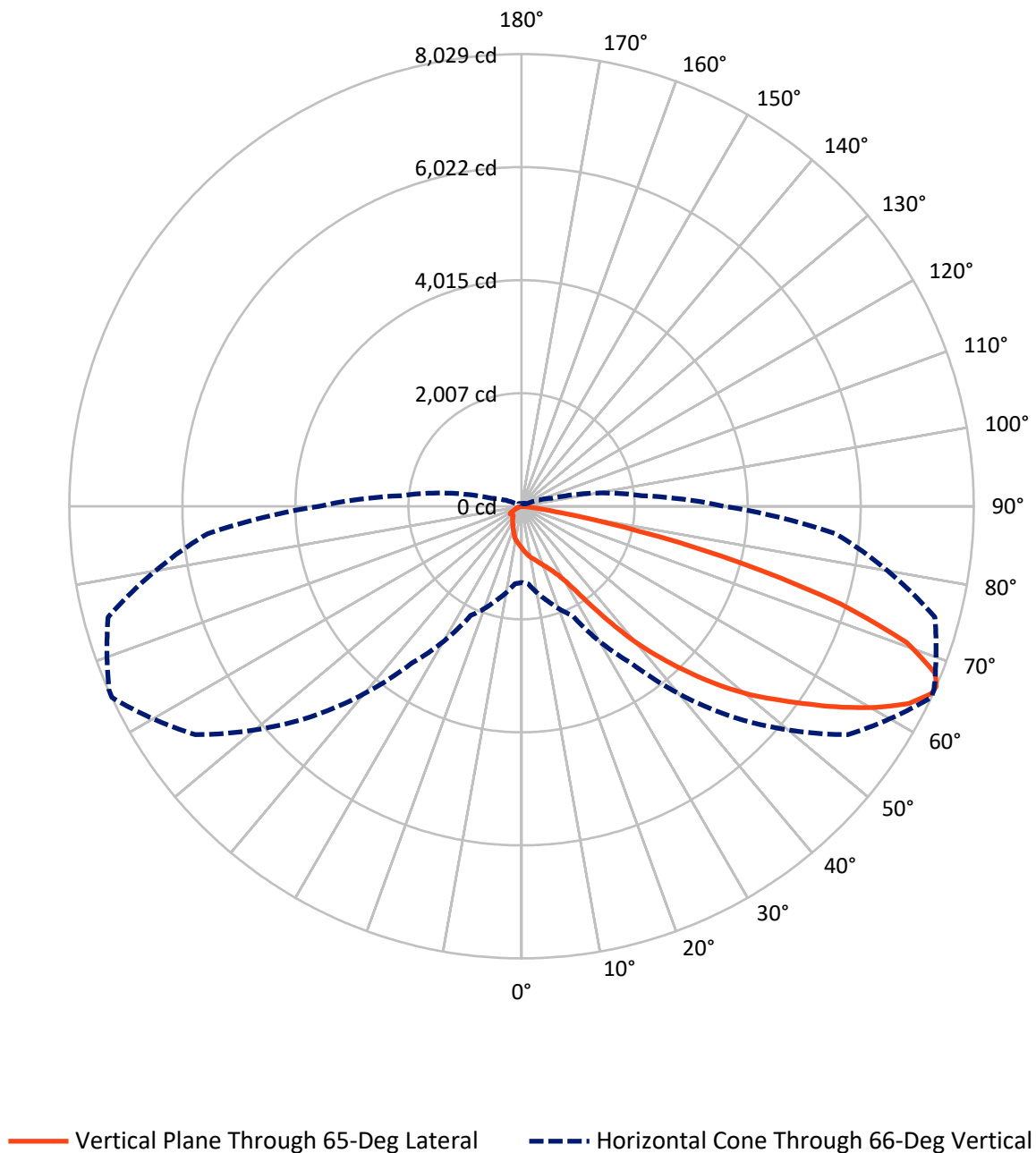
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1072.8	0.0	1072.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	8017.2	0.0	8017.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	9090.0	0.0	9090.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	0.8
10°-20°	207.8	2.3
20°-30°	380.4	4.2
30°-40°	773.0	8.5
40°-50°	1632.3	18.0
50°-60°	2509.4	27.6
60°-70°	2525.9	27.8
70°-80°	943.8	10.4
80°-90°	47.1	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°	9090.0	100.0
0°-180°	9090.0	100.0

Coefficient of Utilization



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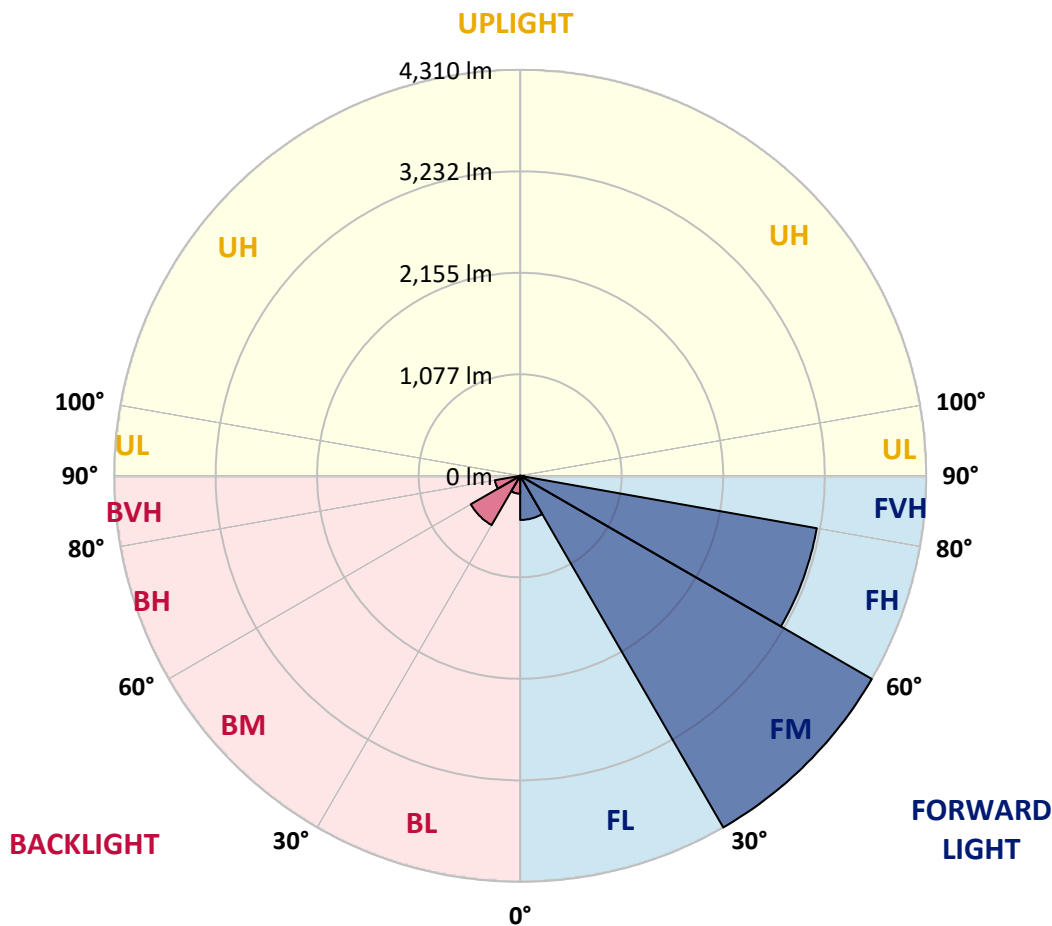
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	468.6	5.2			
FM	(30°-60°)	4309.8	47.4			
FH	(60°-80°)	3197.2	35.2			G2/5000
FVH	(80°-90°)	41.6	0.5			G1/100
BL	(0°-30°)	189.9	2.1	B1/500		
BM	(30°-60°)	604.9	6.7	B1/1000		
BH	(60°-80°)	272.5	3.0	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6
2.5°	844.5	846.1	842.8	836.2	829.6	821.4	808.2	786.8	783.5	768.6	752.1
5°	902.2	905.5	900.6	898.9	895.6	884.1	865.9	834.6	831.3	801.6	763.7
7.5°	922.0	927.0	923.7	923.7	923.7	918.7	910.5	882.4	877.5	839.5	781.8
10°	936.9	940.2	938.5	945.1	950.1	946.8	941.8	925.3	920.4	882.4	806.6
12.5°	959.9	961.6	963.2	966.5	974.8	978.1	976.4	961.6	958.3	931.9	837.9
15°	981.4	981.4	983.0	997.9	1009.4	1016.0	1017.7	1006.1	1002.8	981.4	877.5
17.5°	1001.2	1002.8	1007.8	1024.3	1044.1	1057.3	1065.5	1060.6	1055.6	1039.1	923.7
20°	1030.9	1034.2	1039.1	1062.2	1082.0	1103.4	1119.9	1118.3	1116.6	1105.1	978.1
22.5°	1082.0	1085.3	1093.6	1115.0	1134.8	1161.2	1189.2	1187.6	1182.6	1174.4	1042.4
25°	1159.5	1159.5	1164.5	1182.6	1207.4	1238.7	1265.1	1270.0	1265.1	1260.1	1123.2
27.5°	1256.8	1258.5	1258.5	1278.3	1301.4	1341.0	1373.9	1378.9	1378.9	1373.9	1232.1
30°	1392.1	1387.1	1383.8	1400.3	1425.1	1482.8	1540.5	1550.4	1545.5	1553.7	1385.5
32.5°	1624.7	1616.4	1588.4	1591.7	1606.5	1685.7	1783.0	1817.6	1816.0	1830.8	1632.9
35°	1946.3	1929.8	1888.6	1853.9	1852.3	1938.0	2086.5	2216.8	2215.1	2266.3	2009.0
37.5°	2309.2	2330.6	2253.1	2193.7	2175.6	2243.2	2434.5	2716.6	2731.4	2820.5	2502.1
40°	2794.1	2807.3	2708.3	2624.2	2538.4	2563.2	2815.5	3254.3	3280.7	3379.6	2995.3
42.5°	3216.3	3229.5	3171.8	3069.5	2960.7	2914.5	3199.8	3742.5	3763.9	3900.8	3503.3
45°	3503.3	3513.2	3533.0	3542.9	3419.2	3323.5	3669.9	4243.9	4270.3	4428.6	3999.8
47.5°	3727.6	3735.9	3775.5	3874.4	3849.7	3773.8	4148.2	4765.1	4771.7	4948.2	4483.1
50°	3831.5	3851.3	3948.7	4100.4	4209.3	4230.7	4667.8	5258.3	5276.4	5444.7	4939.9
52.5°	3716.1	3722.7	3968.4	4253.8	4473.2	4690.9	5189.0	5715.2	5767.9	5893.3	5350.6
55°	3326.8	3374.7	3747.4	4248.8	4681.0	5128.0	5746.5	6208.3	6256.2	6335.3	5711.9
57.5°	2874.9	2927.7	3381.3	4036.1	4770.1	5532.1	6262.8	6732.8	6765.8	6787.3	6043.4
60°	2484.0	2533.5	3000.3	3628.7	4681.0	5817.4	6742.7	7254.0	7282.1	7224.4	6210.0
62.5°	2004.0	2053.5	2523.6	3089.3	4331.3	5875.2	7099.0	7717.5	7729.1	7572.4	6107.7
65°	1510.8	1543.8	1936.4	2421.3	3719.4	5568.4	7179.8	8006.2	7994.6	7673.0	5800.9
66°	1354.2	1382.2	1728.6	2140.9	3401.1	5288.0	7071.0	8029.3	8017.7	7598.8	5599.7
67.5°	1167.8	1176.0	1461.4	1751.7	2845.2	4692.5	6739.4	7923.7	7933.6	7394.2	5231.9
70°	912.1	910.5	1075.4	1218.9	1943.0	3338.4	5621.1	7259.0	7306.8	6622.3	4461.6
72.5°	583.9	564.1	659.8	745.5	1131.5	1938.0	4098.8	5916.4	5997.2	5202.2	3323.5
75°	348.0	328.2	351.3	372.8	542.7	931.9	2409.8	4026.2	4103.7	3335.1	1977.6
77.5°	260.6	252.4	254.0	235.9	240.8	349.7	1100.1	2127.7	2183.8	1365.7	750.5
80°	199.6	178.1	166.6	174.8	158.3	138.5	409.1	732.3	767.0	323.3	156.7
82.5°	133.6	115.5	107.2	117.1	100.6	77.5	99.0	141.8	138.5	87.4	61.0
85°	69.3	59.4	59.4	59.4	51.1	37.9	42.9	57.7	57.7	46.2	36.3
87.5°	19.8	18.1	21.4	19.8	14.8	14.8	16.5	19.8	19.8	18.1	16.5
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°	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6	740.6
2.5°	738.9	732.3	714.2	701.0	687.8	676.3	663.1	659.8	653.2	654.8	651.5
5°	743.9	725.7	694.4	664.7	641.6	621.8	597.1	587.2	574.0	569.0	565.7
7.5°	750.5	724.1	677.9	636.7	597.1	557.5	517.9	494.8	480.0	473.4	468.4
10°	765.3	730.7	669.7	605.3	537.7	481.6	442.0	425.5	415.6	414.0	412.3
12.5°	785.1	740.6	661.4	565.7	476.7	423.9	399.2	394.2	392.6	392.6	390.9
15°	814.8	757.1	648.2	519.6	428.8	392.6	381.0	372.8	369.5	369.5	369.5
17.5°	844.5	776.9	628.4	471.7	395.9	372.8	361.2	356.3	353.0	354.6	353.0
20°	882.4	800.0	602.0	430.5	374.4	356.3	344.7	339.8	338.1	338.1	338.1
22.5°	925.3	826.3	569.0	399.2	356.3	339.8	328.2	323.3	320.0	321.6	321.6
25°	983.0	859.3	534.4	367.8	338.1	323.3	310.1	303.5	303.5	305.1	306.8
27.5°	1057.3	898.9	499.8	348.0	321.6	306.8	291.9	285.3	287.0	290.3	290.3
30°	1166.1	953.4	465.1	326.6	303.5	287.0	273.8	267.2	270.5	277.1	277.1
32.5°	1321.2	1042.4	435.4	301.8	277.1	259.0	245.8	240.8	249.1	262.3	262.3
35°	1598.3	1205.7	417.3	277.1	249.1	227.6	211.1	206.2	217.7	234.2	234.2
37.5°	1969.4	1468.0	423.9	255.7	226.0	201.2	183.1	176.5	184.7	199.6	204.5
40°	2383.4	1784.6	481.6	237.5	204.5	179.8	161.6	155.0	160.0	166.6	168.2
42.5°	2797.4	2121.1	590.5	224.3	188.0	161.6	145.1	140.2	143.5	145.1	146.8
45°	3209.7	2454.3	727.4	216.1	173.2	146.8	130.3	130.3	132.0	132.0	132.0
47.5°	3600.6	2779.2	870.9	214.4	160.0	132.0	118.8	120.4	120.4	122.1	122.1
50°	3970.1	3069.5	1016.0	219.4	148.4	118.8	108.9	108.9	108.9	110.5	108.9
52.5°	4278.5	3323.5	1167.8	227.6	136.9	108.9	99.0	99.0	99.0	100.6	99.0
55°	4570.5	3554.5	1322.8	239.2	127.0	100.6	90.7	87.4	87.4	89.1	87.4
57.5°	4808.0	3707.8	1469.6	240.8	118.8	92.4	84.1	79.2	79.2	79.2	79.2
60°	4817.9	3618.8	1512.5	211.1	108.9	84.1	75.9	69.3	70.9	70.9	70.9
62.5°	4502.9	3150.3	1215.6	158.3	97.3	75.9	69.3	62.7	62.7	62.7	62.7
65°	3884.3	2451.0	712.5	125.4	84.1	67.6	61.0	56.1	56.1	56.1	54.4
66°	3594.0	2149.2	546.0	113.8	79.2	66.0	59.4	54.4	52.8	51.1	51.1
67.5°	3120.7	1698.9	341.4	100.6	72.6	61.0	54.4	49.5	47.8	46.2	46.2
70°	2350.4	1078.7	166.6	77.5	62.7	52.8	47.8	42.9	41.2	39.6	37.9
72.5°	1649.4	631.7	87.4	59.4	51.1	46.2	41.2	36.3	34.6	33.0	33.0
75°	931.9	305.1	57.7	42.9	41.2	37.9	34.6	29.7	28.0	28.0	28.0
77.5°	353.0	105.6	39.6	31.3	33.0	29.7	24.7	24.7	23.1	24.7	23.1
80°	92.4	46.2	24.7	23.1	24.7	21.4	18.1	19.8	19.8	19.8	19.8
82.5°	49.5	26.4	14.8	16.5	14.8	14.8	11.5	13.2	14.8	13.2	14.8
85°	34.6	13.2	8.2	8.2	6.6	6.6	4.9	6.6	8.2	6.6	6.6
87.5°	18.1	4.9	4.9	4.9	4.9	3.3	1.6	0.0	1.6	1.6	1.6
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)