

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: P1210106

Luminaire Tested: **ARCH2-110-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210106
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: ARCH2-110-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA 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: 9087 lumens
Efficiency: N/A
Efficacy: 83.0 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): 109.5
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



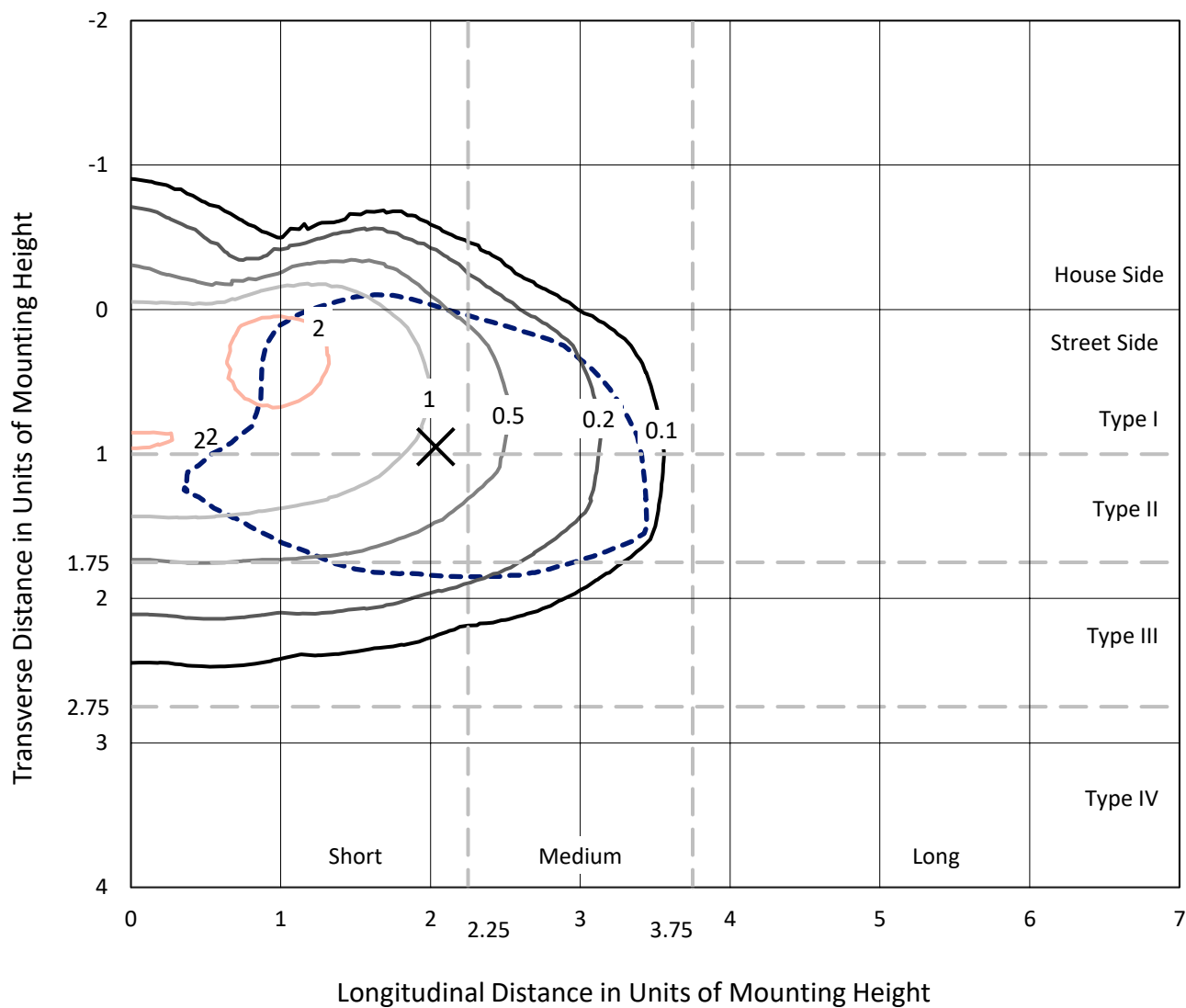
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

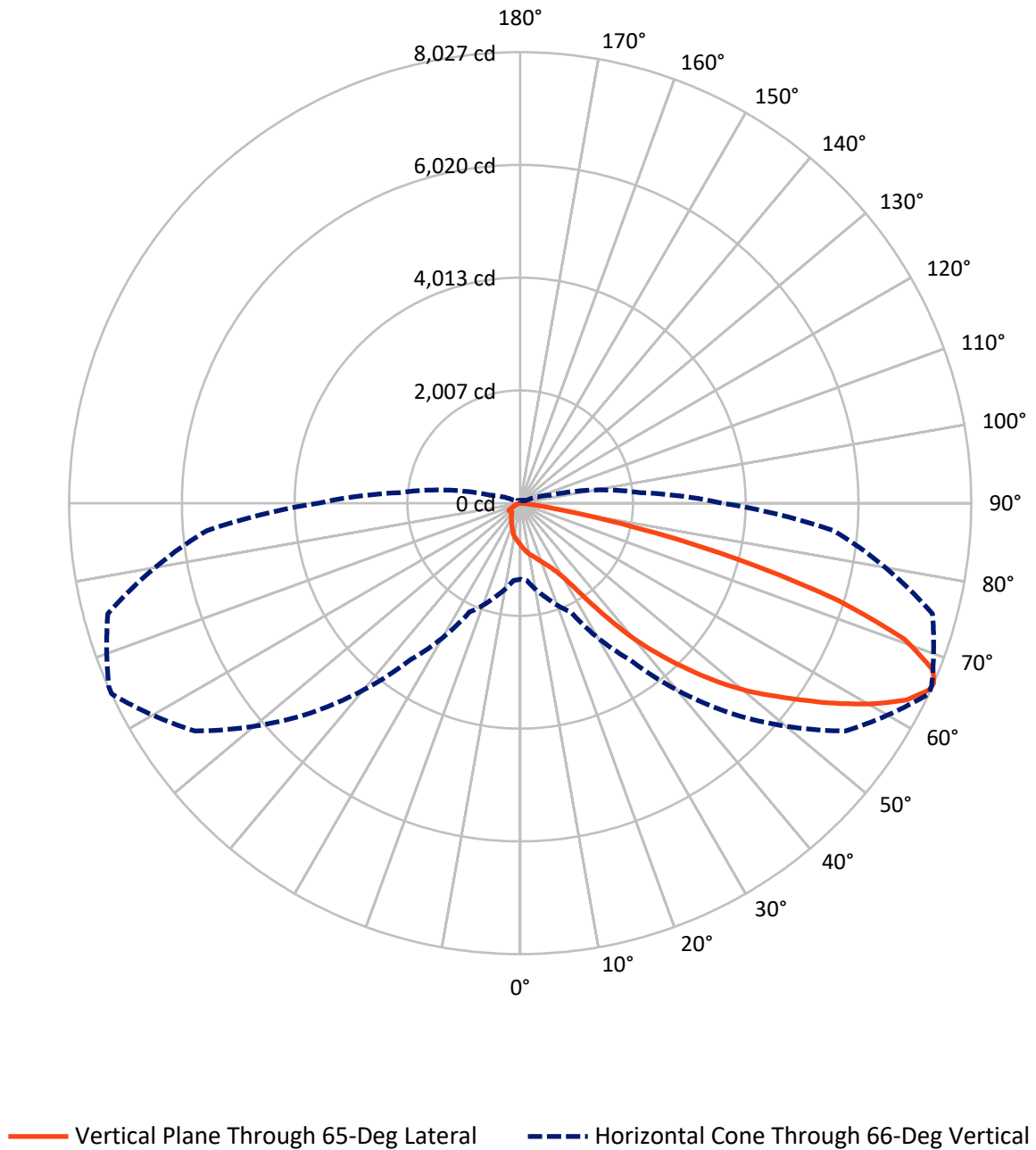


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc

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	1072.4	0.0	1072.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	8014.5	0.0	8014.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	9087.0	0.0	9087.0
	% 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°	380.3	4.2
30°-40°	772.7	8.5
40°-50°	1631.8	18.0
50°-60°	2508.6	27.6
60°-70°	2525.1	27.8
70°-80°	943.5	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°	9087.0	100.0
0°-180°	9087.0	100.0

Coefficient of Utilization



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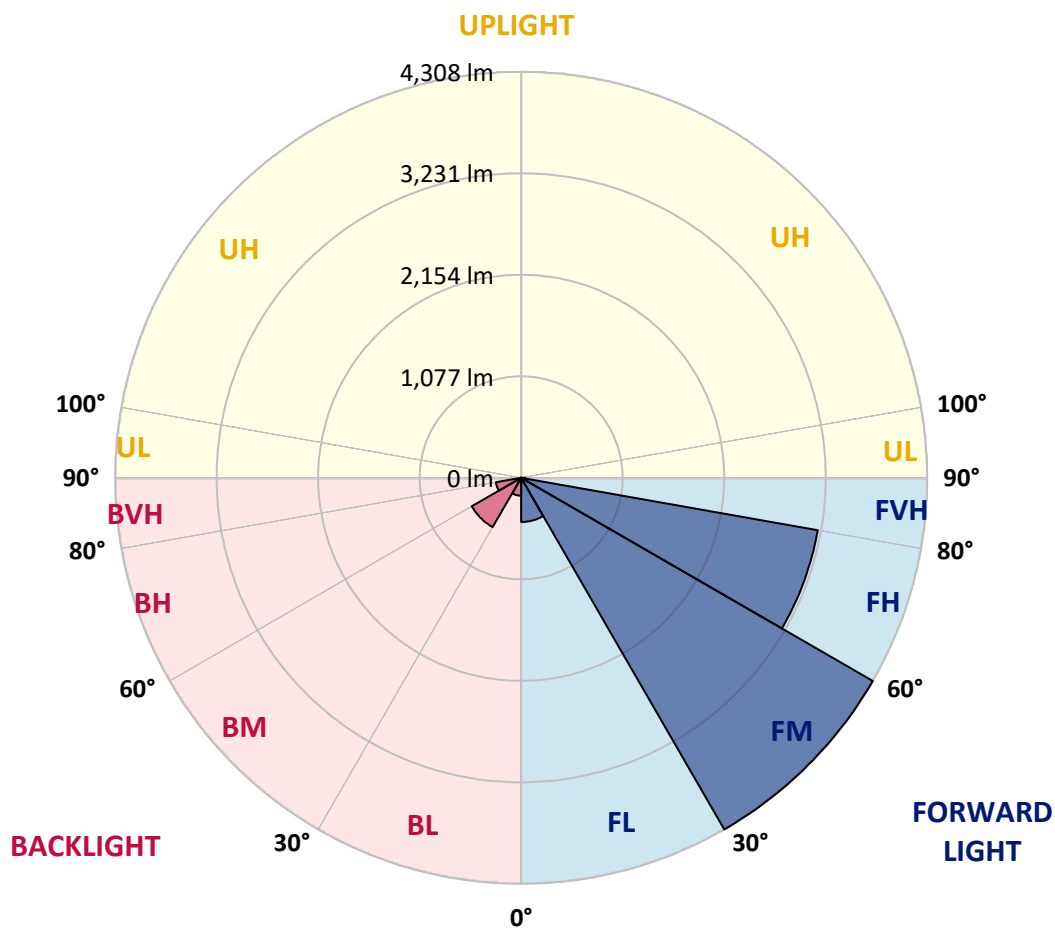
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	468.4	5.2			
FM	(30°-60°)	4308.4	47.4			
FH	(60°-80°)	3196.1	35.2			G2/5000
FVH	(80°-90°)	41.6	0.5			G1/100
BL	(0°-30°)	189.8	2.1	B1/500		
BM	(30°-60°)	604.7	6.7	B1/1000		
BH	(60°-80°)	272.4	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°	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3
2.5°	844.2	845.9	842.6	836.0	829.4	821.1	807.9	786.5	783.2	768.4	751.9
5°	901.9	905.2	900.3	898.6	895.3	883.8	865.6	834.3	831.0	801.3	763.4
7.5°	921.7	926.7	923.4	923.4	923.4	918.4	910.2	882.1	877.2	839.3	781.6
10°	936.5	939.8	938.2	944.8	949.7	946.4	941.5	925.0	920.1	882.1	806.3
12.5°	959.6	961.3	962.9	966.2	974.5	977.8	976.1	961.3	958.0	931.6	837.6
15°	981.1	981.1	982.7	997.6	1009.1	1015.7	1017.3	1005.8	1002.5	981.1	877.2
17.5°	1000.9	1002.5	1007.4	1023.9	1043.7	1056.9	1065.2	1060.2	1055.3	1038.8	923.4
20°	1030.5	1033.8	1038.8	1061.9	1081.6	1103.1	1119.6	1117.9	1116.3	1104.7	977.8
22.5°	1081.6	1084.9	1093.2	1114.6	1134.4	1160.8	1188.8	1187.2	1182.2	1174.0	1042.1
25°	1159.1	1159.1	1164.1	1182.2	1207.0	1238.3	1264.7	1269.6	1264.7	1259.7	1122.9
27.5°	1256.4	1258.1	1258.1	1277.9	1300.9	1340.5	1373.5	1378.4	1378.4	1373.5	1231.7
30°	1391.6	1386.7	1383.4	1399.9	1424.6	1482.3	1540.0	1549.9	1545.0	1553.2	1385.0
32.5°	1624.1	1615.9	1587.8	1591.1	1606.0	1685.1	1782.4	1817.0	1815.4	1830.2	1632.4
35°	1945.6	1929.2	1887.9	1853.3	1851.7	1937.4	2085.8	2216.1	2214.4	2265.5	2008.3
37.5°	2308.4	2329.8	2252.3	2193.0	2174.8	2242.4	2433.7	2715.7	2730.5	2819.5	2501.3
40°	2793.2	2806.3	2707.4	2623.3	2537.6	2562.3	2814.6	3253.2	3279.6	3378.5	2994.3
42.5°	3215.3	3228.5	3170.7	3068.5	2959.7	2913.5	3198.8	3741.2	3762.7	3899.5	3502.2
45°	3502.2	3512.1	3531.8	3541.7	3418.1	3322.4	3668.7	4242.5	4268.9	4427.2	3998.5
47.5°	3726.4	3734.7	3774.2	3873.2	3848.4	3772.6	4146.9	4763.5	4770.1	4946.6	4481.6
50°	3830.3	3850.1	3947.4	4099.0	4207.9	4229.3	4666.3	5256.5	5274.7	5442.9	4938.3
52.5°	3714.9	3721.5	3967.1	4252.4	4471.7	4689.3	5187.3	5713.3	5766.0	5891.4	5348.9
55°	3325.7	3373.6	3746.2	4247.4	4679.4	5126.3	5744.6	6206.3	6254.1	6333.2	5710.0
57.5°	2874.0	2926.7	3380.1	4034.7	4768.5	5530.3	6260.7	6730.6	6763.6	6785.0	6041.4
60°	2483.2	2532.6	2999.3	3627.5	4679.4	5815.5	6740.5	7251.7	7279.7	7222.0	6207.9
62.5°	2003.4	2052.8	2522.7	3088.3	4329.9	5873.2	7096.7	7715.0	7726.5	7569.9	6105.7
65°	1510.3	1543.3	1935.8	2420.5	3718.2	5566.5	7177.5	8003.5	7992.0	7670.5	5799.0
66°	1353.7	1381.7	1728.0	2140.2	3399.9	5286.2	7068.6	8026.6	8015.1	7596.3	5597.9
67.5°	1167.4	1175.6	1460.9	1751.1	2844.3	4691.0	6737.2	7921.1	7931.0	7391.8	5230.2
70°	911.8	910.2	1075.1	1218.5	1942.3	3337.3	5619.3	7256.6	7304.4	6620.1	4460.1
72.5°	583.7	563.9	659.5	745.3	1131.1	1937.4	4097.4	5914.4	5995.2	5200.5	3322.4
75°	347.9	328.1	351.2	372.6	542.5	931.6	2409.0	4024.8	4102.3	3334.0	1977.0
77.5°	260.5	252.3	253.9	235.8	240.7	349.6	1099.8	2127.0	2183.1	1365.2	750.2
80°	199.5	178.1	166.5	174.8	158.3	138.5	408.9	732.1	766.7	323.2	156.6
82.5°	133.6	115.4	107.2	117.1	100.6	77.5	98.9	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°	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3	740.3
2.5°	738.7	732.1	714.0	700.8	687.6	676.0	662.8	659.5	652.9	654.6	651.3
5°	743.6	725.5	694.2	664.5	641.4	621.6	596.9	587.0	573.8	568.9	565.6
7.5°	750.2	723.8	677.7	636.5	596.9	557.3	517.7	494.7	479.8	473.2	468.3
10°	765.1	730.4	669.4	605.1	537.5	481.5	441.9	425.4	415.5	413.9	412.2
12.5°	784.9	740.3	661.2	565.6	476.5	423.8	399.0	394.1	392.4	392.4	390.8
15°	814.5	756.8	648.0	519.4	428.7	392.4	380.9	372.6	369.3	369.3	369.3
17.5°	844.2	776.6	628.2	471.6	395.7	372.6	361.1	356.2	352.9	354.5	352.9
20°	882.1	799.7	601.8	430.4	374.3	356.2	344.6	339.7	338.0	338.0	338.0
22.5°	925.0	826.1	568.9	399.0	356.2	339.7	328.1	323.2	319.9	321.5	321.5
25°	982.7	859.1	534.2	367.7	338.0	323.2	310.0	303.4	303.4	305.0	306.7
27.5°	1056.9	898.6	499.6	347.9	321.5	306.7	291.8	285.3	286.9	290.2	290.2
30°	1165.7	953.0	465.0	326.5	303.4	286.9	273.7	267.1	270.4	277.0	277.0
32.5°	1320.7	1042.1	435.3	301.7	277.0	258.9	245.7	240.7	249.0	262.2	262.2
35°	1597.7	1205.3	417.2	277.0	249.0	227.5	211.1	206.1	217.6	234.1	234.1
37.5°	1968.7	1467.5	423.8	255.6	225.9	201.2	183.0	176.4	184.7	199.5	204.5
40°	2382.6	1784.1	481.5	237.4	204.5	179.7	161.6	155.0	159.9	166.5	168.2
42.5°	2796.5	2120.4	590.3	224.2	188.0	161.6	145.1	140.2	143.5	145.1	146.7
45°	3208.7	2453.5	727.1	216.0	173.1	146.7	130.3	130.3	131.9	131.9	131.9
47.5°	3599.4	2778.3	870.6	214.4	159.9	131.9	118.7	120.4	120.4	122.0	122.0
50°	3968.8	3068.5	1015.7	219.3	148.4	118.7	108.8	108.8	108.8	110.5	108.8
52.5°	4277.1	3322.4	1167.4	227.5	136.9	108.8	98.9	98.9	98.9	100.6	98.9
55°	4569.0	3553.3	1322.4	239.1	127.0	100.6	90.7	87.4	87.4	89.0	87.4
57.5°	4806.4	3706.6	1469.1	240.7	118.7	92.3	84.1	79.1	79.1	79.1	79.1
60°	4816.3	3617.6	1512.0	211.1	108.8	84.1	75.8	69.3	70.9	70.9	70.9
62.5°	4501.4	3149.3	1215.2	158.3	97.3	75.8	69.3	62.7	62.7	62.7	62.7
65°	3883.0	2450.2	712.3	125.3	84.1	67.6	61.0	56.1	56.1	56.1	54.4
66°	3592.8	2148.5	545.8	113.8	79.1	66.0	59.4	54.4	52.8	51.1	51.1
67.5°	3119.6	1698.3	341.3	100.6	72.5	61.0	54.4	49.5	47.8	46.2	46.2
70°	2349.6	1078.3	166.5	77.5	62.7	52.8	47.8	42.9	41.2	39.6	37.9
72.5°	1648.9	631.5	87.4	59.4	51.1	46.2	41.2	36.3	34.6	33.0	33.0
75°	931.6	305.0	57.7	42.9	41.2	37.9	34.6	29.7	28.0	28.0	28.0
77.5°	352.9	105.5	39.6	31.3	33.0	29.7	24.7	24.7	23.1	24.7	23.1
80°	92.3	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)