

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: P1210394

Luminaire Tested: **ARCH3-110-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210394
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: ARCH3-110-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11299 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 111.9
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



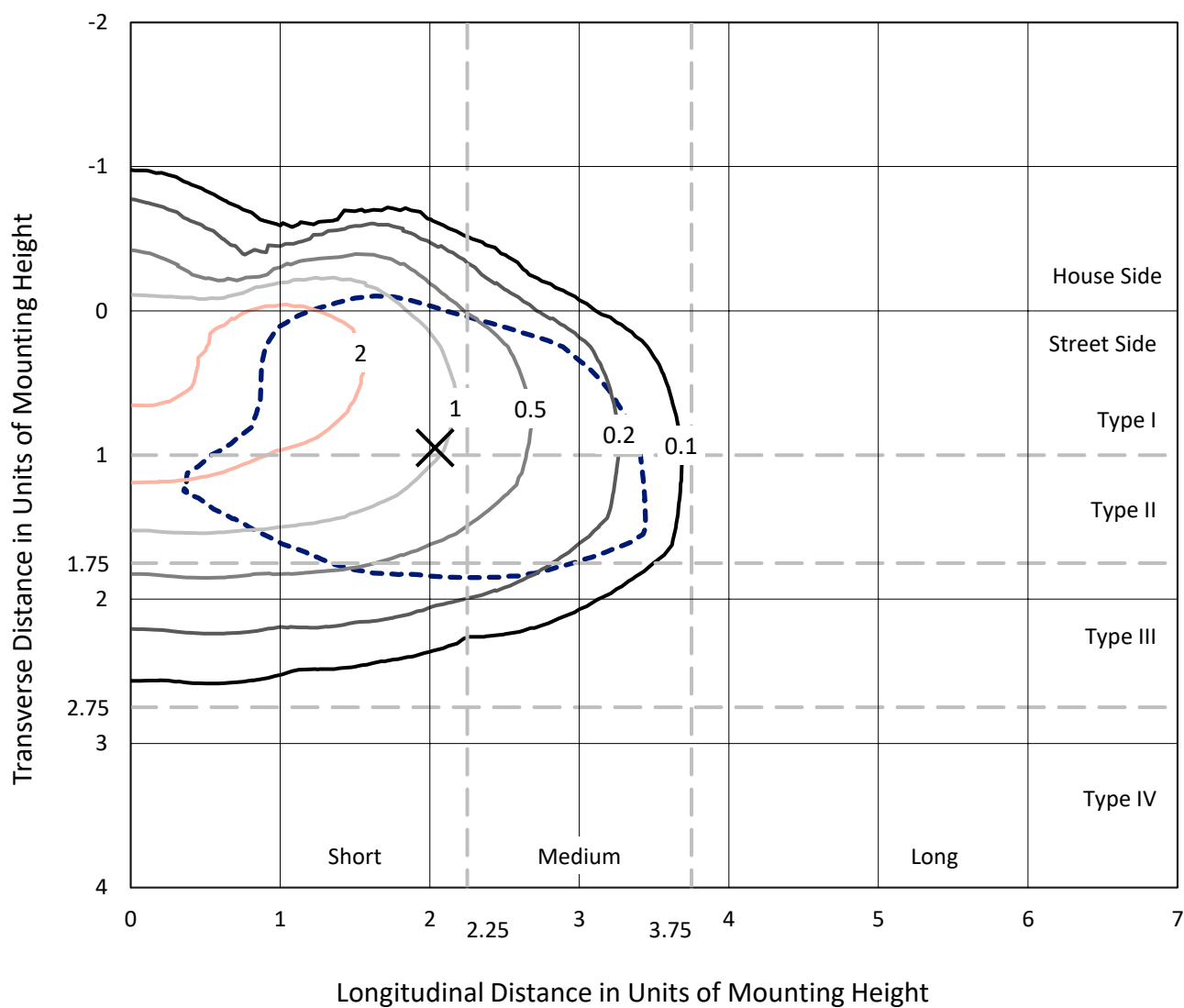
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Iso-Footcandle Lines of Horizontal Illumination

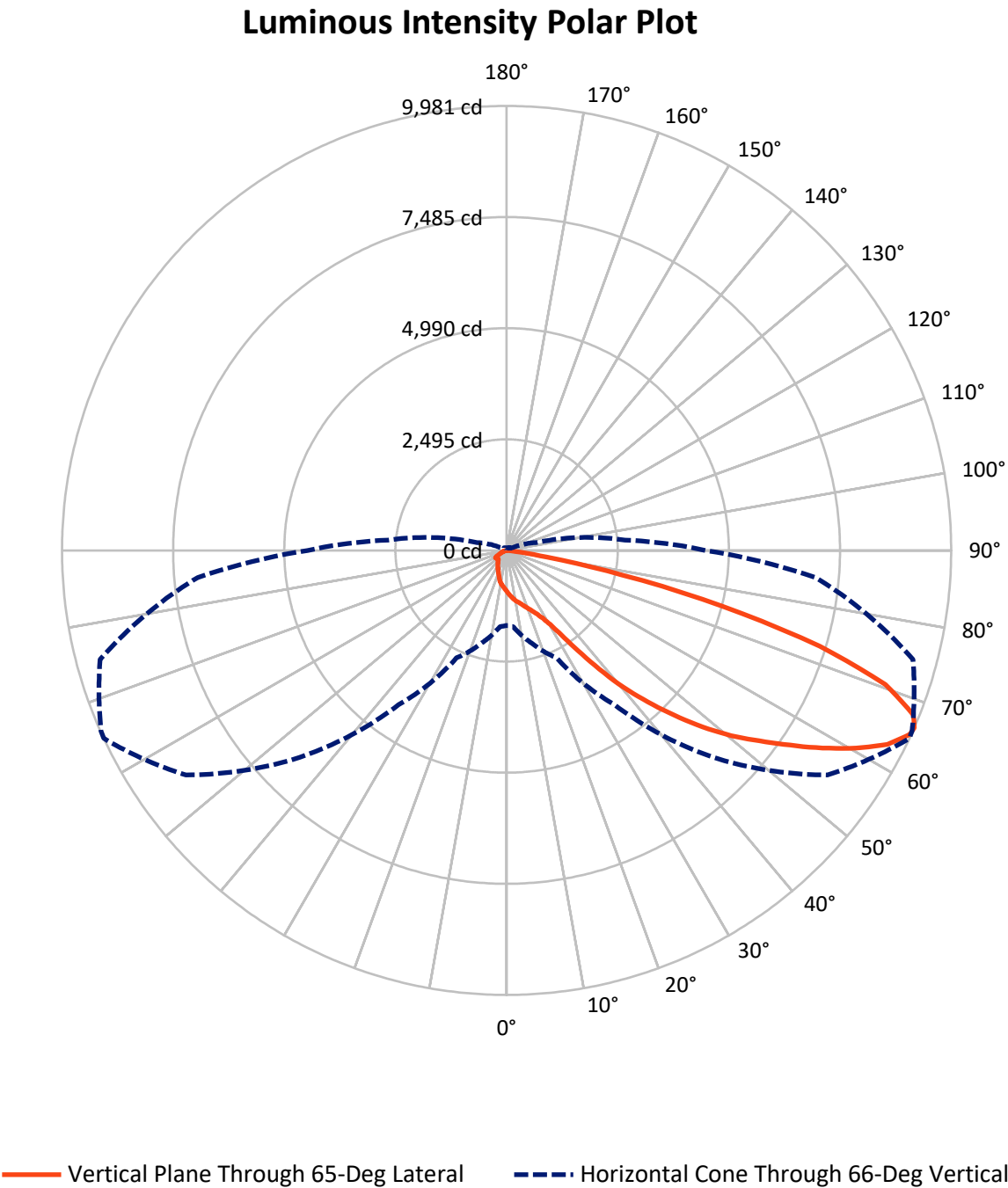
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1333.5	0.0	1333.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	9965.5	0.0	9965.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	11299.0	0.0	11299.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.3	0.8
10°-20°	258.3	2.3
20°-30°	472.9	4.2
30°-40°	960.8	8.5
40°-50°	2029.0	18.0
50°-60°	3119.2	27.6
60°-70°	3139.7	27.8
70°-80°	1173.2	10.4
80°-90°	58.6	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°	11299.0	100.0
0°-180°	11299.0	100.0

Coefficient of Utilization



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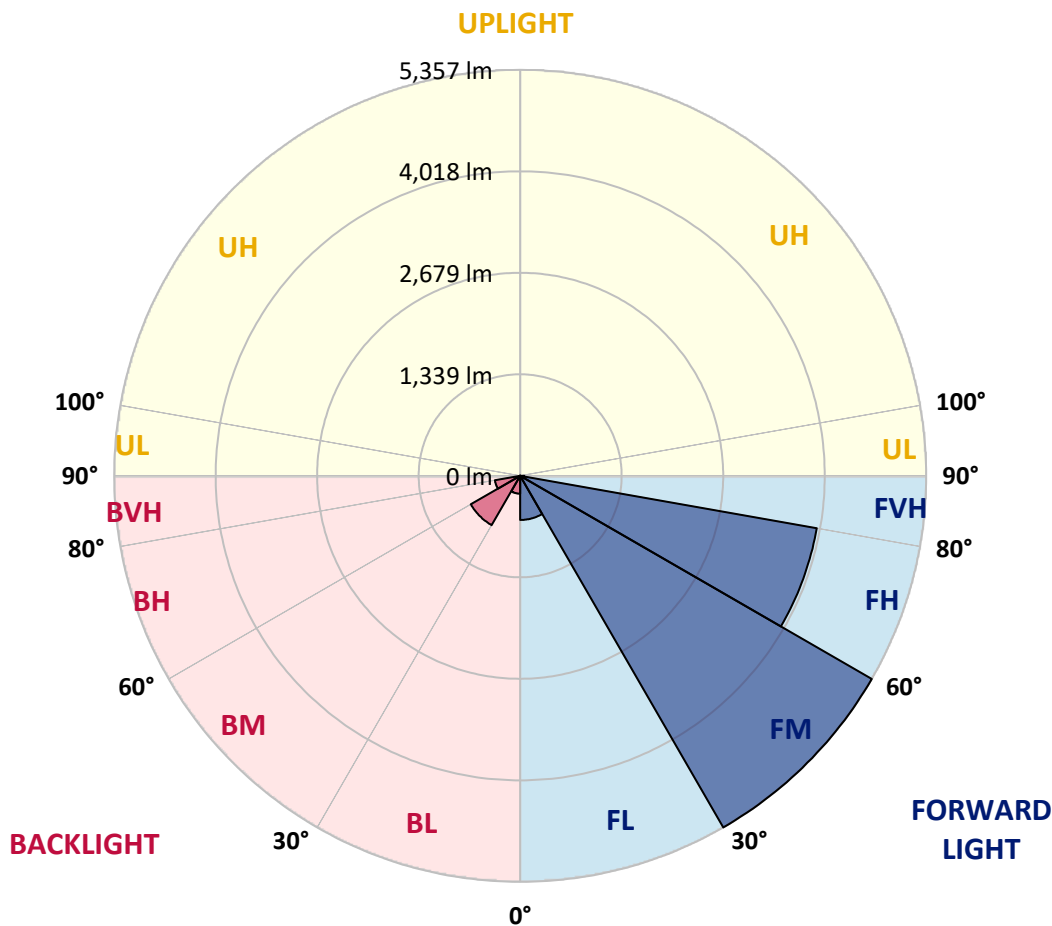
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	582.4	5.2			
FM	(30°-60°)	5357.2	47.4			
FH	(60°-80°)	3974.1	35.2			G2/5000
FVH	(80°-90°)	51.7	0.5			G1/100
BL	(0°-30°)	236.0	2.1	B1/500		
BM	(30°-60°)	751.8	6.7	B1/1000		
BH	(60°-80°)	338.8	3.0	B1/500		G1/500
BVH	(80°-90°)	6.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	920.6	920.6	920.6	920.6	920.6	920.6	920.6	920.6	920.6	920.6	920.6
2.5°	1049.7	1051.8	1047.7	1039.5	1031.3	1021.0	1004.6	978.0	973.9	955.4	934.9
5°	1121.5	1125.6	1119.4	1117.4	1113.3	1098.9	1076.4	1037.4	1033.3	996.4	949.3
7.5°	1146.1	1152.2	1148.1	1148.1	1148.1	1142.0	1131.7	1096.9	1090.7	1043.6	971.8
10°	1164.5	1168.6	1166.6	1174.8	1180.9	1176.8	1170.7	1150.2	1144.0	1096.9	1002.6
12.5°	1193.2	1195.3	1197.3	1201.4	1211.7	1215.8	1213.7	1195.3	1191.2	1158.4	1041.5
15°	1219.9	1219.9	1221.9	1240.4	1254.7	1262.9	1265.0	1250.6	1246.5	1219.9	1090.7
17.5°	1244.5	1246.5	1252.7	1273.2	1297.8	1314.2	1324.4	1318.3	1312.1	1291.6	1148.1
20°	1281.4	1285.5	1291.6	1320.3	1344.9	1371.6	1392.1	1390.1	1388.0	1373.7	1215.8
22.5°	1344.9	1349.0	1359.3	1386.0	1410.6	1443.4	1478.2	1476.2	1470.0	1459.8	1295.7
25°	1441.3	1441.3	1447.5	1470.0	1500.8	1539.7	1572.5	1578.7	1572.5	1566.4	1396.2
27.5°	1562.3	1564.3	1564.3	1588.9	1617.6	1666.8	1707.8	1714.0	1714.0	1707.8	1531.5
30°	1730.4	1724.2	1720.1	1740.6	1771.4	1843.2	1914.9	1927.2	1921.1	1931.3	1722.2
32.5°	2019.5	2009.2	1974.4	1978.5	1996.9	2095.3	2216.3	2259.3	2257.3	2275.7	2029.7
35°	2419.3	2398.8	2347.5	2304.5	2302.4	2409.0	2593.5	2755.5	2753.5	2817.0	2497.2
37.5°	2870.3	2897.0	2800.6	2726.8	2704.2	2788.3	3026.1	3376.7	3395.2	3505.9	3110.2
40°	3473.1	3489.5	3366.5	3261.9	3155.3	3186.0	3499.7	4045.1	4077.9	4200.9	3723.2
42.5°	3997.9	4014.3	3942.6	3815.5	3680.2	3622.7	3977.4	4652.0	4678.6	4848.8	4354.7
45°	4354.7	4367.0	4391.6	4403.9	4250.1	4131.2	4561.7	5275.2	5308.0	5504.9	4971.8
47.5°	4633.5	4643.8	4693.0	4816.0	4785.2	4690.9	5156.3	5923.1	5931.3	6150.7	5572.5
50°	4762.7	4787.3	4908.2	5096.9	5232.2	5258.8	5802.1	6536.1	6558.7	6767.8	6140.4
52.5°	4619.2	4627.4	4932.8	5287.5	5560.2	5830.8	6450.0	7104.0	7169.6	7325.5	6650.9
55°	4135.3	4194.8	4658.1	5281.4	5818.5	6374.1	7143.0	7717.0	7776.5	7874.9	7099.9
57.5°	3573.5	3639.1	4203.0	5016.9	5929.2	6876.5	7784.7	8369.0	8410.0	8436.7	7512.0
60°	3087.6	3149.1	3729.4	4510.5	5818.5	7231.1	8381.3	9016.9	9051.7	8980.0	7719.1
62.5°	2491.0	2552.5	3136.8	3840.1	5383.9	7302.9	8824.2	9593.0	9607.3	9412.6	7592.0
65°	1878.0	1919.0	2407.0	3009.7	4623.3	6921.6	8924.6	9951.8	9937.4	9537.6	7210.6
66°	1683.2	1718.1	2148.6	2661.2	4227.6	6573.0	8789.3	9980.5	9966.1	9445.4	6960.5
67.5°	1451.6	1461.8	1816.5	2177.3	3536.6	5832.9	8377.2	9849.3	9861.6	9191.2	6503.3
70°	1133.8	1131.7	1336.7	1515.1	2415.2	4149.7	6987.2	9023.0	9082.5	8231.6	5545.9
72.5°	725.8	701.2	820.1	926.7	1406.5	2409.0	5094.8	7354.2	7454.6	6466.4	4131.2
75°	432.6	408.0	436.7	463.4	674.5	1158.4	2995.4	5004.6	5101.0	4145.6	2458.2
77.5°	323.9	313.7	315.7	293.2	299.3	434.6	1367.5	2644.8	2714.5	1697.6	932.9
80°	248.1	221.4	207.1	217.3	196.8	172.2	508.5	910.3	953.4	401.8	194.8
82.5°	166.1	143.5	133.3	145.6	125.1	96.4	123.0	176.3	172.2	108.7	75.9
85°	86.1	73.8	73.8	73.8	63.6	47.2	53.3	71.8	71.8	57.4	45.1
87.5°	24.6	22.6	26.7	24.6	18.5	18.5	20.5	24.6	24.6	22.6	20.5
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°	920.6	920.6	920.6	920.6	920.6	920.6	920.6	920.6	920.6	920.6	920.6
2.5°	918.5	910.3	887.7	871.3	854.9	840.6	824.2	820.1	811.9	813.9	809.8
5°	924.7	902.1	863.1	826.2	797.5	772.9	742.2	729.9	713.5	707.3	703.2
7.5°	932.9	900.0	842.6	791.4	742.2	693.0	643.8	615.1	596.6	588.4	582.3
10°	951.3	908.2	832.4	752.4	668.4	598.7	549.5	529.0	516.7	514.6	512.6
12.5°	975.9	920.6	822.1	703.2	592.5	526.9	496.2	490.0	488.0	488.0	485.9
15°	1012.8	941.1	805.7	645.8	533.1	488.0	473.6	463.4	459.3	459.3	459.3
17.5°	1049.7	965.7	781.1	586.4	492.1	463.4	449.0	442.8	438.7	440.8	438.7
20°	1096.9	994.4	748.3	535.1	465.4	442.8	428.5	422.3	420.3	420.3	420.3
22.5°	1150.2	1027.2	707.3	496.2	442.8	422.3	408.0	401.8	397.7	399.8	399.8
25°	1221.9	1068.2	664.3	457.2	420.3	401.8	385.4	377.2	377.2	379.3	381.3
27.5°	1314.2	1117.4	621.2	432.6	399.8	381.3	362.9	354.7	356.7	360.8	360.8
30°	1449.5	1185.0	578.2	405.9	377.2	356.7	340.3	332.1	336.2	344.4	344.4
32.5°	1642.2	1295.7	541.3	375.2	344.4	321.9	305.5	299.3	309.6	326.0	326.0
35°	1986.7	1498.7	518.7	344.4	309.6	282.9	262.4	256.3	270.6	291.1	291.1
37.5°	2448.0	1824.7	526.9	317.8	280.9	250.1	227.6	219.4	229.6	248.1	254.2
40°	2962.6	2218.3	598.7	295.2	254.2	223.5	200.9	192.7	198.9	207.1	209.1
42.5°	3477.2	2636.6	734.0	278.8	233.7	200.9	180.4	174.3	178.4	180.4	182.5
45°	3989.7	3050.7	904.1	268.6	215.3	182.5	162.0	162.0	164.0	164.0	164.0
47.5°	4475.6	3454.6	1082.5	266.5	198.9	164.0	147.6	149.7	149.7	151.7	151.7
50°	4934.9	3815.5	1262.9	272.7	184.5	147.6	135.3	135.3	135.3	137.4	135.3
52.5°	5318.3	4131.2	1451.6	282.9	170.2	135.3	123.0	123.0	123.0	125.1	123.0
55°	5681.2	4418.2	1644.3	297.3	157.9	125.1	112.8	108.7	108.7	110.7	108.7
57.5°	5976.4	4608.9	1826.7	299.3	147.6	114.8	104.6	98.4	98.4	98.4	98.4
60°	5988.7	4498.2	1880.1	262.4	135.3	104.6	94.3	86.1	88.2	88.2	88.2
62.5°	5597.1	3915.9	1511.0	196.8	121.0	94.3	86.1	77.9	77.9	77.9	77.9
65°	4828.3	3046.6	885.7	155.8	104.6	84.1	75.9	69.7	69.7	69.7	67.7
66°	4467.4	2671.4	678.6	141.5	98.4	82.0	73.8	67.7	65.6	63.6	63.6
67.5°	3879.0	2111.7	424.4	125.1	90.2	75.9	67.7	61.5	59.5	57.4	57.4
70°	2921.6	1340.8	207.1	96.4	77.9	65.6	59.5	53.3	51.3	49.2	47.2
72.5°	2050.2	785.2	108.7	73.8	63.6	57.4	51.3	45.1	43.1	41.0	41.0
75°	1158.4	379.3	71.8	53.3	51.3	47.2	43.1	36.9	34.9	34.9	34.9
77.5°	438.7	131.2	49.2	39.0	41.0	36.9	30.8	30.8	28.7	30.8	28.7
80°	114.8	57.4	30.8	28.7	30.8	26.7	22.6	24.6	24.6	24.6	24.6
82.5°	61.5	32.8	18.5	20.5	18.5	18.5	14.4	16.4	18.5	16.4	18.5
85°	43.1	16.4	10.3	10.3	8.2	8.2	6.2	8.2	10.3	8.2	8.2
87.5°	22.6	6.2	6.2	6.2	6.2	4.1	2.1	0.0	2.1	2.1	2.1
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)