

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: P1210342

Luminaire Tested: **ARCH2-90-740-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210342
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: ARCH2-90-740-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 695mA 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: 8959 lumens
Efficiency: N/A
Efficacy: 95.6 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

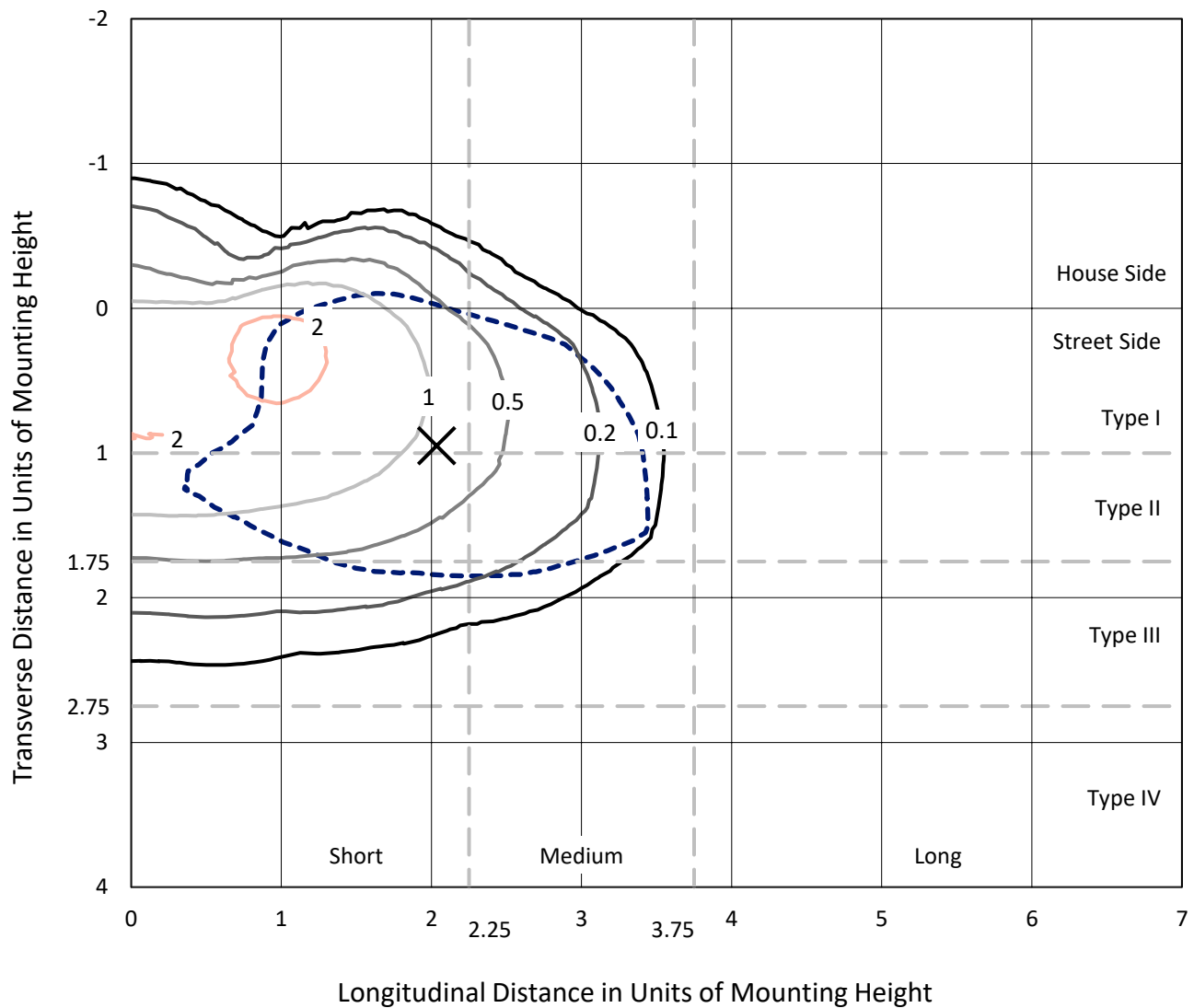
Input Watts (W): 93.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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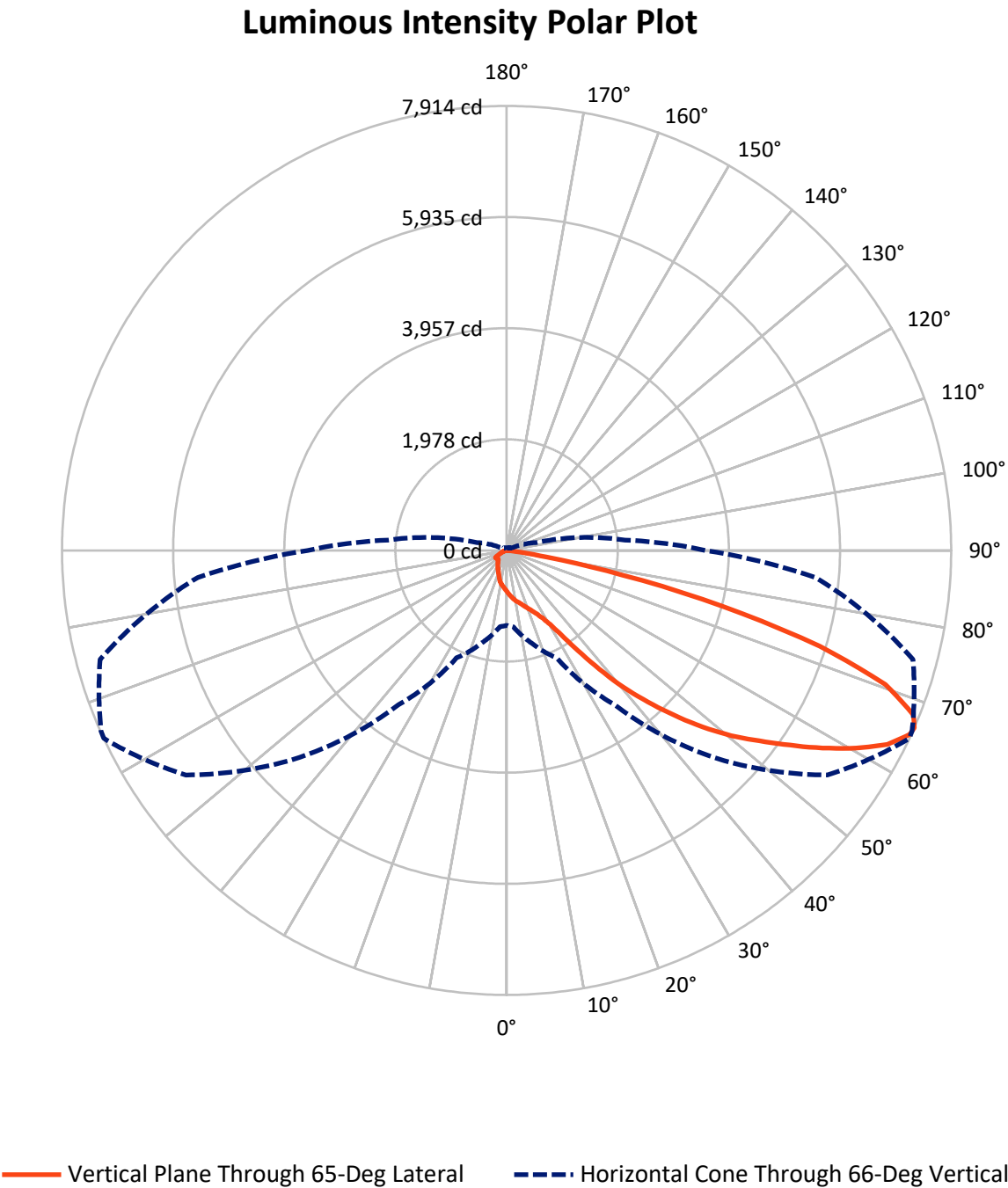
Iso-Footcandle Lines of Horizontal Illumination

✕ 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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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1057.3	0.0	1057.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	7901.7	0.0	7901.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	8959.0	0.0	8959.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	0.8
10°-20°	204.8	2.3
20°-30°	374.9	4.2
30°-40°	761.8	8.5
40°-50°	1608.8	18.0
50°-60°	2473.2	27.6
60°-70°	2489.5	27.8
70°-80°	930.2	10.4
80°-90°	46.5	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°	8959.0	100.0
0°-180°	8959.0	100.0

Coefficient of Utilization



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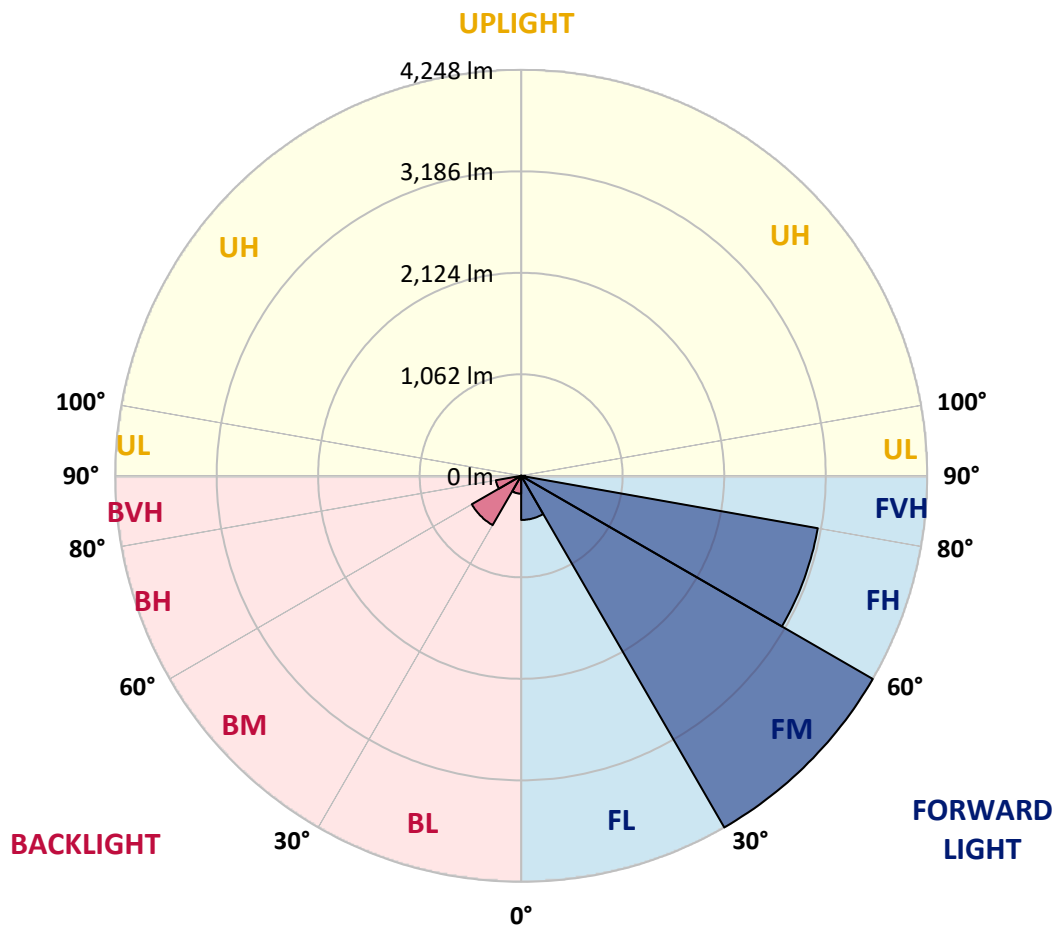
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	461.8	5.2			
FM	(30°-60°)	4247.7	47.4			
FH	(60°-80°)	3151.1	35.2			G2/5000
FVH	(80°-90°)	41.0	0.5			G1/100
BL	(0°-30°)	187.1	2.1	B1/500		
BM	(30°-60°)	596.1	6.7	B1/1000		
BH	(60°-80°)	268.6	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°	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9
2.5°	832.3	833.9	830.7	824.2	817.7	809.6	796.6	775.4	772.2	757.5	741.3
5°	889.2	892.5	887.6	886.0	882.7	871.3	853.5	822.6	819.3	790.1	752.7
7.5°	908.7	913.6	910.4	910.4	910.4	905.5	897.3	869.7	864.8	827.4	770.5
10°	923.4	926.6	925.0	931.5	936.4	933.1	928.2	912.0	907.1	869.7	794.9
12.5°	946.1	947.7	949.4	952.6	960.7	964.0	962.4	947.7	944.5	918.5	825.8
15°	967.2	967.2	968.9	983.5	994.9	1001.4	1003.0	991.6	988.4	967.2	864.8
17.5°	986.8	988.4	993.3	1009.5	1029.0	1042.0	1050.2	1045.3	1040.4	1024.1	910.4
20°	1016.0	1019.3	1024.1	1046.9	1066.4	1087.5	1103.8	1102.2	1100.5	1089.2	964.0
22.5°	1066.4	1069.7	1077.8	1098.9	1118.4	1144.4	1172.1	1170.5	1165.6	1157.4	1027.4
25°	1142.8	1142.8	1147.7	1165.6	1190.0	1220.8	1246.9	1251.7	1246.9	1242.0	1107.1
27.5°	1238.7	1240.4	1240.4	1259.9	1282.6	1321.6	1354.1	1359.0	1359.0	1354.1	1214.3
30°	1372.0	1367.2	1363.9	1380.2	1404.5	1461.4	1518.3	1528.1	1523.2	1531.3	1365.5
32.5°	1601.2	1593.1	1565.5	1568.7	1583.4	1661.4	1757.3	1791.4	1789.8	1804.4	1609.4
35°	1918.2	1902.0	1861.3	1827.2	1825.6	1910.1	2056.4	2184.8	2183.2	2233.6	1980.0
37.5°	2275.9	2297.0	2220.6	2162.1	2144.2	2210.9	2399.4	2677.4	2692.0	2779.8	2466.1
40°	2753.8	2766.8	2669.3	2586.4	2501.8	2526.2	2774.9	3207.4	3233.4	3330.9	2952.1
42.5°	3170.0	3183.0	3126.1	3025.3	2918.0	2872.5	3153.7	3688.5	3709.7	3844.6	3452.8
45°	3452.8	3462.6	3482.1	3491.8	3369.9	3275.6	3617.0	4182.7	4208.7	4364.8	3942.1
47.5°	3673.9	3682.0	3721.1	3818.6	3794.2	3719.4	4088.5	4696.4	4702.9	4876.9	4418.5
50°	3776.3	3795.8	3891.8	4041.3	4148.6	4169.7	4600.5	5182.5	5200.4	5366.2	4868.8
52.5°	3662.5	3669.0	3911.3	4192.5	4408.7	4623.3	5114.2	5632.8	5684.8	5808.4	5273.5
55°	3278.9	3326.0	3693.4	4187.6	4613.5	5054.1	5663.7	6118.9	6166.0	6244.0	5629.5
57.5°	2833.5	2885.5	3332.5	3977.9	4701.3	5452.4	6172.5	6635.8	6668.3	6689.5	5956.3
60°	2448.2	2497.0	2957.0	3576.4	4613.5	5733.6	6645.6	7149.5	7177.1	7120.2	6120.5
62.5°	1975.1	2023.9	2487.2	3044.8	4268.9	5790.5	6996.7	7606.3	7617.7	7463.3	6019.7
65°	1489.1	1521.6	1908.5	2386.4	3665.8	5488.1	7076.4	7890.8	7879.4	7562.4	5717.3
66°	1334.6	1362.3	1703.7	2110.1	3352.0	5211.8	6969.1	7913.6	7902.2	7489.3	5519.0
67.5°	1150.9	1159.1	1440.3	1726.4	2804.2	4624.9	6642.3	7809.5	7819.3	7287.7	5156.5
70°	899.0	897.3	1059.9	1201.3	1915.0	3290.3	5540.1	7154.4	7201.5	6526.9	4397.3
72.5°	575.5	556.0	650.3	734.8	1115.2	1910.1	4039.7	5831.1	5910.8	5127.2	3275.6
75°	343.0	323.5	346.3	367.4	534.8	918.5	2375.0	3968.2	4044.6	3287.0	1949.1
77.5°	256.8	248.7	250.3	232.5	237.3	344.6	1084.3	2097.1	2152.3	1346.0	739.7
80°	196.7	175.6	164.2	172.3	156.1	136.6	403.2	721.8	755.9	318.6	154.4
82.5°	131.7	113.8	105.7	115.4	99.2	76.4	97.5	139.8	136.6	86.2	60.1
85°	68.3	58.5	58.5	58.5	50.4	37.4	42.3	56.9	56.9	45.5	35.8
87.5°	19.5	17.9	21.1	19.5	14.6	14.6	16.3	19.5	19.5	17.9	16.3
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°	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9	729.9
2.5°	728.3	721.8	703.9	690.9	677.9	666.5	653.5	650.3	643.7	645.4	642.1
5°	733.2	715.3	684.4	655.1	632.4	612.9	588.5	578.7	565.7	560.8	557.6
7.5°	739.7	713.7	668.1	627.5	588.5	549.5	510.4	487.7	473.1	466.6	461.7
10°	754.3	720.2	660.0	596.6	530.0	474.7	435.7	419.4	409.7	408.0	406.4
12.5°	773.8	729.9	651.9	557.6	469.8	417.8	393.4	388.5	386.9	386.9	385.3
15°	803.1	746.2	638.9	512.1	422.7	386.9	375.5	367.4	364.1	364.1	364.1
17.5°	832.3	765.7	619.4	464.9	390.2	367.4	356.0	351.1	347.9	349.5	347.9
20°	869.7	788.4	593.4	424.3	369.0	351.1	339.8	334.9	333.3	333.3	333.3
22.5°	912.0	814.4	560.8	393.4	351.1	334.9	323.5	318.6	315.4	317.0	317.0
25°	968.9	847.0	526.7	362.5	333.3	318.6	305.6	299.1	299.1	300.7	302.4
27.5°	1042.0	886.0	492.6	343.0	317.0	302.4	287.7	281.2	282.9	286.1	286.1
30°	1149.3	939.6	458.4	321.9	299.1	282.9	269.9	263.4	266.6	273.1	273.1
32.5°	1302.1	1027.4	429.2	297.5	273.1	255.2	242.2	237.3	245.5	258.5	258.5
35°	1575.2	1188.3	411.3	273.1	245.5	224.3	208.1	203.2	214.6	230.8	230.8
37.5°	1941.0	1446.8	417.8	252.0	222.7	198.3	180.4	173.9	182.1	196.7	201.6
40°	2349.0	1758.9	474.7	234.1	201.6	177.2	159.3	152.8	157.7	164.2	165.8
42.5°	2757.1	2090.6	582.0	221.1	185.3	159.3	143.1	138.2	141.4	143.1	144.7
45°	3163.5	2418.9	716.9	213.0	170.7	144.7	128.4	128.4	130.1	130.1	130.1
47.5°	3548.7	2739.2	858.3	211.3	157.7	130.1	117.0	118.7	118.7	120.3	120.3
50°	3912.9	3025.3	1001.4	216.2	146.3	117.0	107.3	107.3	107.3	108.9	107.3
52.5°	4216.9	3275.6	1150.9	224.3	134.9	107.3	97.5	97.5	97.5	99.2	97.5
55°	4504.6	3503.2	1303.8	235.7	125.2	99.2	89.4	86.2	86.2	87.8	86.2
57.5°	4738.7	3654.4	1448.4	237.3	117.0	91.0	82.9	78.0	78.0	78.0	78.0
60°	4748.5	3566.6	1490.7	208.1	107.3	82.9	74.8	68.3	69.9	69.9	69.9
62.5°	4438.0	3104.9	1198.1	156.1	95.9	74.8	68.3	61.8	61.8	61.8	61.8
65°	3828.4	2415.7	702.3	123.5	82.9	66.7	60.1	55.3	55.3	55.3	53.6
66°	3542.2	2118.2	538.1	112.2	78.0	65.0	58.5	53.6	52.0	50.4	50.4
67.5°	3075.7	1674.4	336.5	99.2	71.5	60.1	53.6	48.8	47.1	45.5	45.5
70°	2316.5	1063.2	164.2	76.4	61.8	52.0	47.1	42.3	40.6	39.0	37.4
72.5°	1625.6	622.6	86.2	58.5	50.4	45.5	40.6	35.8	34.1	32.5	32.5
75°	918.5	300.7	56.9	42.3	40.6	37.4	34.1	29.3	27.6	27.6	27.6
77.5°	347.9	104.0	39.0	30.9	32.5	29.3	24.4	24.4	22.8	24.4	22.8
80°	91.0	45.5	24.4	22.8	24.4	21.1	17.9	19.5	19.5	19.5	19.5
82.5°	48.8	26.0	14.6	16.3	14.6	14.6	11.4	13.0	14.6	13.0	14.6
85°	34.1	13.0	8.1	8.1	6.5	6.5	4.9	6.5	8.1	6.5	6.5
87.5°	17.9	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)