

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: P1210074

Luminaire Tested: **ARCH2-100-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210074
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: ARCH2-100-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 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: 8772 lumens
Efficiency: N/A
Efficacy: 84.9 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



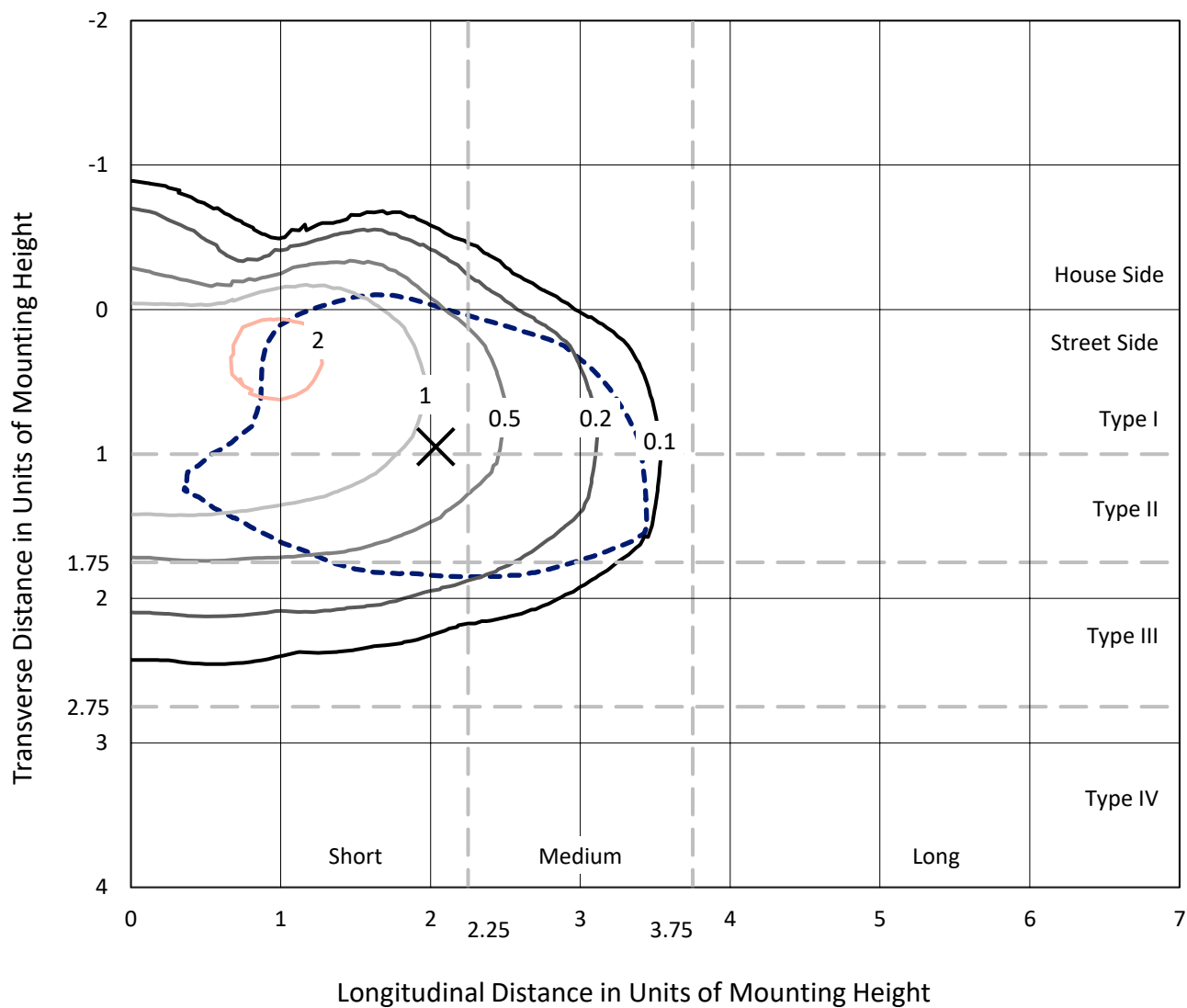
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Iso-Footcandle Lines of Horizontal Illumination

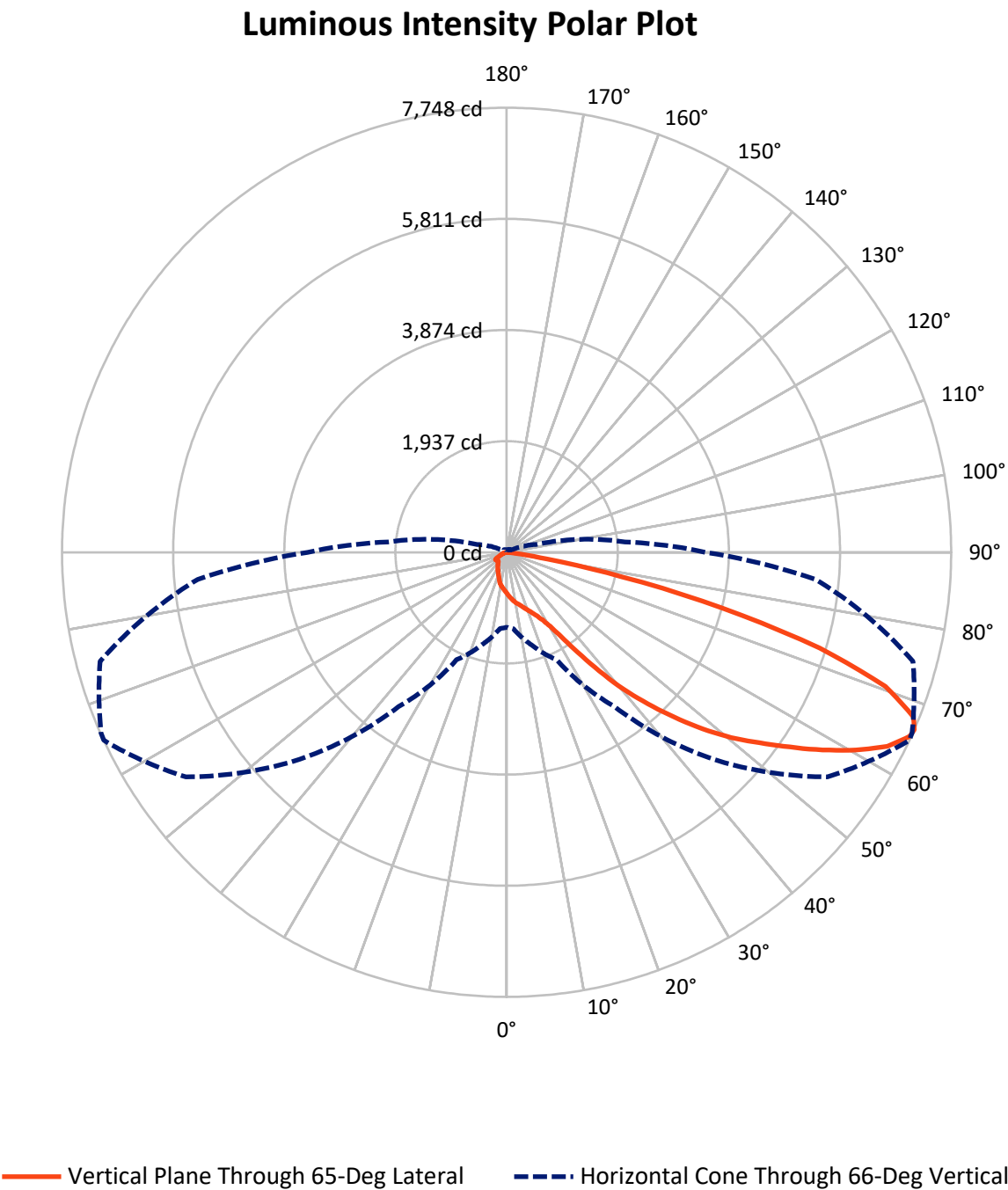
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1035.3	0.0	1035.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	7736.7	0.0	7736.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	8772.0	0.0	8772.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	0.8
10°-20°	200.6	2.3
20°-30°	367.1	4.2
30°-40°	745.9	8.5
40°-50°	1575.2	18.0
50°-60°	2421.6	27.6
60°-70°	2437.5	27.8
70°-80°	910.8	10.4
80°-90°	45.5	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°	8772.0	100.0
0°-180°	8772.0	100.0

Coefficient of Utilization



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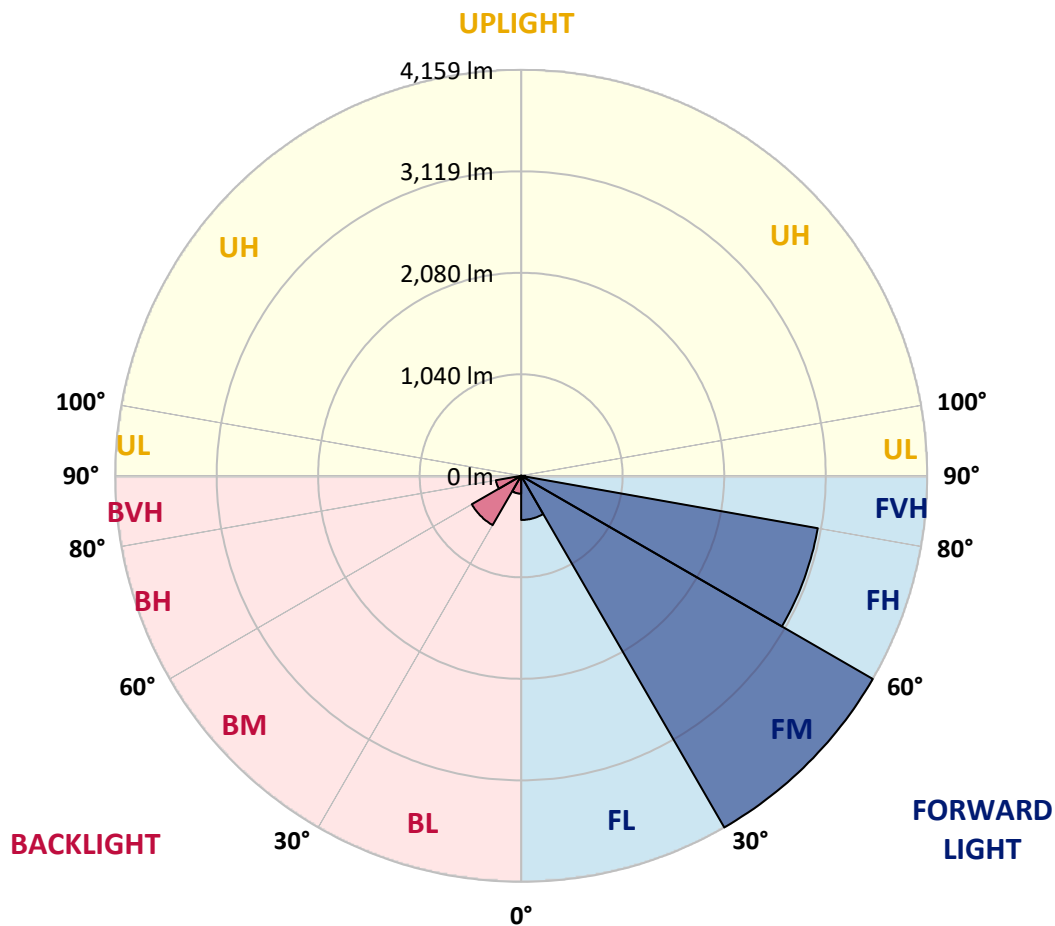
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	452.2	5.2			
FM	(30°-60°)	4159.1	47.4			
FH	(60°-80°)	3085.3	35.2			G2/5000
FVH	(80°-90°)	40.1	0.5			G1/100
BL	(0°-30°)	183.2	2.1	B1/500		
BM	(30°-60°)	583.7	6.7	B1/1000		
BH	(60°-80°)	263.0	3.0	B1/500		G1/500
BVH	(80°-90°)	5.4	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°	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7
2.5°	814.9	816.5	813.4	807.0	800.6	792.7	779.9	759.2	756.1	741.7	725.8
5°	870.7	873.8	869.1	867.5	864.3	853.1	835.6	805.4	802.2	773.6	737.0
7.5°	889.8	894.5	891.3	891.3	891.3	886.6	878.6	851.6	846.8	810.2	754.5
10°	904.1	907.3	905.7	912.0	916.8	913.6	908.9	892.9	888.2	851.6	778.3
12.5°	926.4	928.0	929.6	932.7	940.7	943.9	942.3	928.0	924.8	899.3	808.6
15°	947.1	947.1	948.7	963.0	974.1	980.5	982.1	970.9	967.8	947.1	846.8
17.5°	966.2	967.8	972.5	988.4	1007.5	1020.3	1028.2	1023.5	1018.7	1002.8	891.3
20°	994.8	998.0	1002.8	1025.1	1044.2	1064.8	1080.8	1079.2	1077.6	1066.4	943.9
22.5°	1044.2	1047.3	1055.3	1076.0	1095.1	1120.6	1147.6	1146.0	1141.2	1133.3	1006.0
25°	1119.0	1119.0	1123.7	1141.2	1165.1	1195.4	1220.8	1225.6	1220.8	1216.1	1083.9
27.5°	1212.9	1214.5	1214.5	1233.6	1255.8	1294.0	1325.9	1330.7	1330.7	1325.9	1189.0
30°	1343.4	1338.6	1335.4	1351.3	1375.2	1430.9	1486.6	1496.2	1491.4	1499.4	1337.0
32.5°	1567.8	1559.9	1532.8	1536.0	1550.3	1626.7	1720.6	1754.0	1752.5	1766.8	1575.8
35°	1878.2	1862.3	1822.5	1789.1	1787.5	1870.2	2013.5	2139.2	2137.6	2187.0	1938.7
37.5°	2228.4	2249.1	2174.3	2117.0	2099.4	2164.7	2349.3	2621.5	2635.8	2721.8	2414.6
40°	2696.3	2709.1	2613.6	2532.4	2449.6	2473.5	2717.0	3140.4	3165.9	3261.4	2890.5
42.5°	3103.8	3116.5	3060.8	2962.1	2857.1	2812.5	3087.9	3611.6	3632.2	3764.4	3380.8
45°	3380.8	3390.3	3409.4	3419.0	3299.6	3207.3	3541.5	4095.4	4120.9	4273.7	3859.9
47.5°	3597.2	3605.2	3643.4	3738.9	3715.0	3641.8	4003.1	4598.4	4604.8	4775.1	4326.2
50°	3697.5	3716.6	3810.5	3957.0	4062.0	4082.7	4504.5	5074.3	5091.8	5254.2	4767.1
52.5°	3586.1	3592.5	3829.6	4105.0	4316.7	4526.8	5007.5	5515.2	5566.2	5687.1	5163.5
55°	3210.4	3256.6	3616.3	4100.2	4517.2	4948.6	5545.5	5991.1	6037.3	6113.7	5512.0
57.5°	2774.3	2825.3	3263.0	3894.9	4603.2	5338.5	6043.7	6497.3	6529.1	6549.8	5832.0
60°	2397.1	2444.8	2895.3	3501.7	4517.2	5613.9	6506.9	7000.3	7027.3	6971.6	5992.7
62.5°	1933.9	1981.7	2435.3	2981.2	4179.8	5669.6	6850.7	7447.5	7458.7	7307.5	5894.0
65°	1458.0	1489.8	1868.7	2336.6	3589.3	5373.6	6928.6	7726.1	7714.9	7404.6	5598.0
66°	1306.8	1333.8	1668.1	2066.0	3282.1	5103.0	6823.6	7748.4	7737.2	7332.9	5403.8
67.5°	1126.9	1134.9	1410.2	1690.4	2745.7	4528.4	6503.7	7646.5	7656.1	7135.6	5048.9
70°	880.2	878.6	1037.8	1176.3	1875.0	3221.6	5424.5	7005.1	7051.2	6390.7	4305.5
72.5°	563.5	544.4	636.7	719.4	1091.9	1870.2	3955.4	5709.4	5787.4	5020.2	3207.3
75°	335.8	316.7	339.0	359.7	523.7	899.3	2325.5	3885.3	3960.1	3218.4	1908.4
77.5°	251.5	243.5	245.1	227.6	232.4	337.4	1061.7	2053.3	2107.4	1317.9	724.2
80°	192.6	171.9	160.8	168.7	152.8	133.7	394.7	706.7	740.1	312.0	151.2
82.5°	128.9	111.4	103.5	113.0	97.1	74.8	95.5	136.9	133.7	84.4	58.9
85°	66.9	57.3	57.3	57.3	49.3	36.6	41.4	55.7	55.7	44.6	35.0
87.5°	19.1	17.5	20.7	19.1	14.3	14.3	15.9	19.1	19.1	17.5	15.9
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°	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7
2.5°	713.1	706.7	689.2	676.5	663.7	652.6	639.9	636.7	630.3	631.9	628.7
5°	717.9	700.3	670.1	641.5	619.2	600.1	576.2	566.6	553.9	549.1	546.0
7.5°	724.2	698.8	654.2	614.4	576.2	538.0	499.8	477.5	463.2	456.8	452.0
10°	738.5	705.1	646.2	584.2	518.9	464.8	426.6	410.7	401.1	399.5	397.9
12.5°	757.6	714.7	638.3	546.0	460.0	409.1	385.2	380.4	378.8	378.8	377.2
15°	786.3	730.6	625.5	501.4	413.8	378.8	367.7	359.7	356.5	356.5	356.5
17.5°	814.9	749.7	606.4	455.2	382.0	359.7	348.6	343.8	340.6	342.2	340.6
20°	851.6	772.0	581.0	415.4	361.3	343.8	332.7	327.9	326.3	326.3	326.3
22.5°	892.9	797.4	549.1	385.2	343.8	327.9	316.7	312.0	308.8	310.4	310.4
25°	948.7	829.3	515.7	354.9	326.3	312.0	299.2	292.9	292.9	294.5	296.1
27.5°	1020.3	867.5	482.3	335.8	310.4	296.1	281.7	275.4	277.0	280.1	280.1
30°	1125.3	920.0	448.9	315.2	292.9	277.0	264.2	257.9	261.0	267.4	267.4
32.5°	1274.9	1006.0	420.2	291.3	267.4	249.9	237.2	232.4	240.3	253.1	253.1
35°	1542.4	1163.5	402.7	267.4	240.3	219.7	203.7	199.0	210.1	226.0	226.0
37.5°	1900.5	1416.6	409.1	246.7	218.1	194.2	176.7	170.3	178.3	192.6	197.4
40°	2300.0	1722.2	464.8	229.2	197.4	173.5	156.0	149.6	154.4	160.8	162.4
42.5°	2699.5	2046.9	569.8	216.5	181.5	156.0	140.1	135.3	138.5	140.1	141.7
45°	3097.4	2368.4	701.9	208.5	167.1	141.7	125.7	125.7	127.3	127.3	127.3
47.5°	3474.7	2682.0	840.4	206.9	154.4	127.3	114.6	116.2	116.2	117.8	117.8
50°	3831.2	2962.1	980.5	211.7	143.3	114.6	105.1	105.1	105.1	106.6	105.1
52.5°	4128.9	3207.3	1126.9	219.7	132.1	105.1	95.5	95.5	95.5	97.1	95.5
55°	4410.6	3430.1	1276.5	230.8	122.6	97.1	87.5	84.4	84.4	86.0	84.4
57.5°	4639.8	3578.1	1418.2	232.4	114.6	89.1	81.2	76.4	76.4	76.4	76.4
60°	4649.3	3492.2	1459.6	203.7	105.1	81.2	73.2	66.9	68.4	68.4	68.4
62.5°	4345.3	3040.1	1173.1	152.8	93.9	73.2	66.9	60.5	60.5	60.5	60.5
65°	3748.4	2365.3	687.6	121.0	81.2	65.3	58.9	54.1	54.1	54.1	52.5
66°	3468.3	2074.0	526.9	109.8	76.4	63.7	57.3	52.5	50.9	49.3	49.3
67.5°	3011.5	1639.4	329.5	97.1	70.0	58.9	52.5	47.8	46.2	44.6	44.6
70°	2268.2	1041.0	160.8	74.8	60.5	50.9	46.2	41.4	39.8	38.2	36.6
72.5°	1591.7	609.6	84.4	57.3	49.3	44.6	39.8	35.0	33.4	31.8	31.8
75°	899.3	294.5	55.7	41.4	39.8	36.6	33.4	28.7	27.1	27.1	27.1
77.5°	340.6	101.9	38.2	30.2	31.8	28.7	23.9	23.9	22.3	23.9	22.3
80°	89.1	44.6	23.9	22.3	23.9	20.7	17.5	19.1	19.1	19.1	19.1
82.5°	47.8	25.5	14.3	15.9	14.3	14.3	11.1	12.7	14.3	12.7	14.3
85°	33.4	12.7	8.0	8.0	6.4	6.4	4.8	6.4	8.0	6.4	6.4
87.5°	17.5	4.8	4.8	4.8	4.8	3.2	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)