

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: P1210810

Luminaire Tested: **ARCH3-80-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210810
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: ARCH3-80-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 650mA 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: 8706 lumens
Efficiency: N/A
Efficacy: 106.3 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

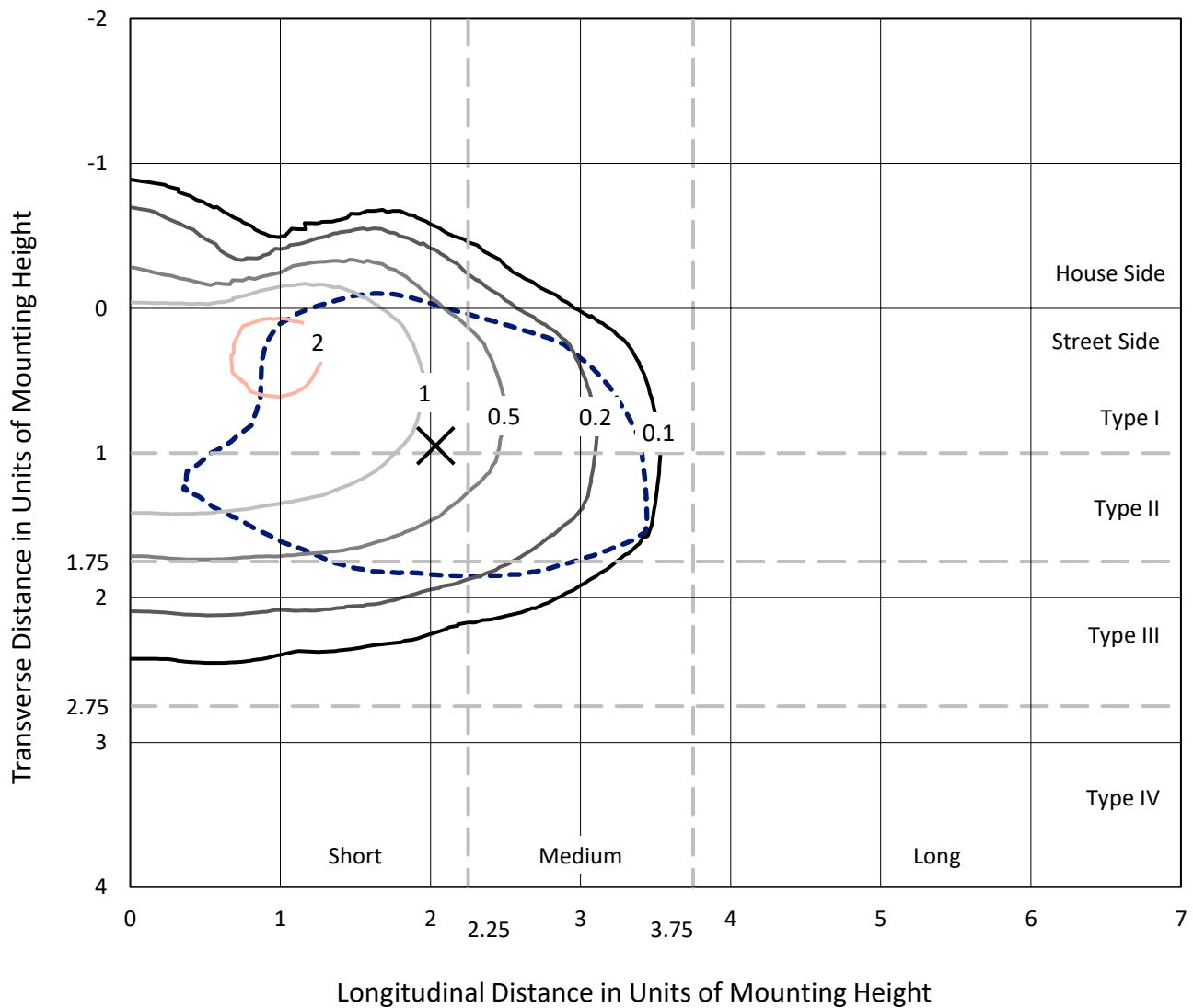
Input Watts (W): 81.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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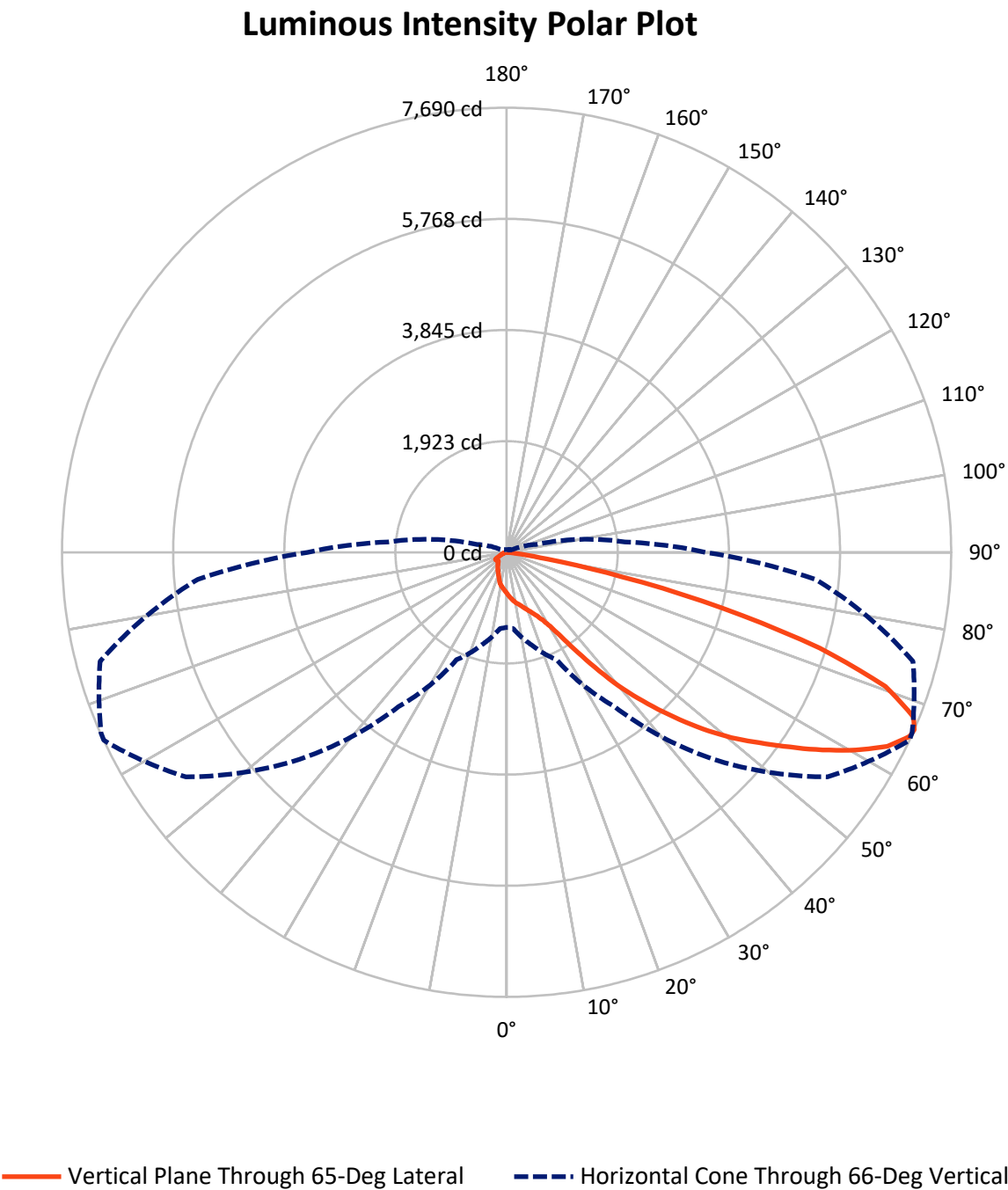
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1027.5	0.0	1027.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	7678.5	0.0	7678.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	8706.0	0.0	8706.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	0.8
10°-20°	199.1	2.3
20°-30°	364.3	4.2
30°-40°	740.3	8.5
40°-50°	1563.4	18.0
50°-60°	2403.4	27.6
60°-70°	2419.2	27.8
70°-80°	903.9	10.4
80°-90°	45.2	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°	8706.0	100.0
0°-180°	8706.0	100.0

Coefficient of Utilization



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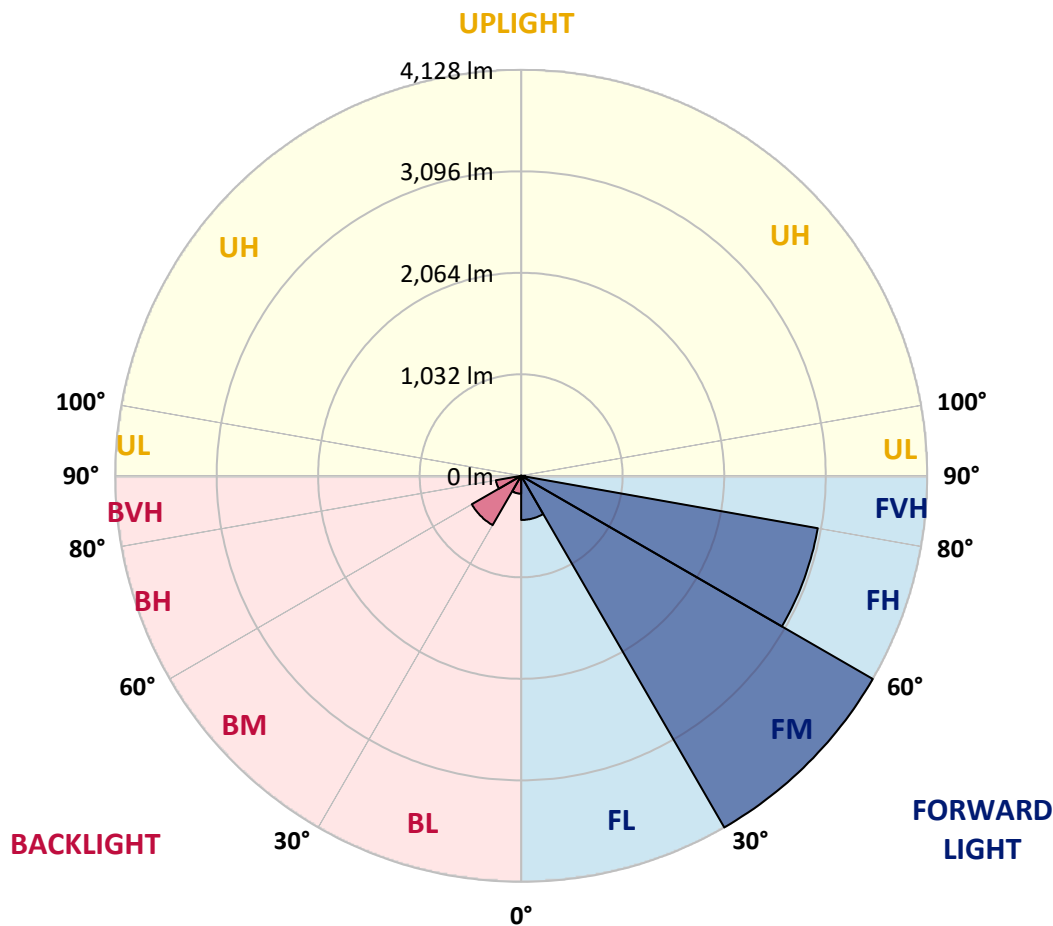
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	448.8	5.2			
FM	(30°-60°)	4127.8	47.4			
FH	(60°-80°)	3062.1	35.2			G2/5000
FVH	(80°-90°)	39.9	0.5			G1/100
BL	(0°-30°)	181.9	2.1	B1/500		
BM	(30°-60°)	579.3	6.7	B1/1000		
BH	(60°-80°)	261.0	3.0	B1/500		G1/500
BVH	(80°-90°)	5.3	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°	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3
2.5°	808.8	810.4	807.2	800.9	794.6	786.7	774.1	753.5	750.4	736.1	720.4
5°	864.1	867.3	862.5	860.9	857.8	846.7	829.4	799.3	796.2	767.7	731.4
7.5°	883.1	887.8	884.6	884.6	884.6	879.9	872.0	845.1	840.4	804.1	748.8
10°	897.3	900.4	898.9	905.2	909.9	906.8	902.0	886.2	881.5	845.1	772.5
12.5°	919.4	921.0	922.6	925.7	933.6	936.8	935.2	921.0	917.8	892.5	802.5
15°	939.9	939.9	941.5	955.7	966.8	973.1	974.7	963.6	960.5	939.9	840.4
17.5°	958.9	960.5	965.2	981.0	1000.0	1012.6	1020.5	1015.8	1011.0	995.2	884.6
20°	987.3	990.5	995.2	1017.3	1036.3	1056.8	1072.6	1071.0	1069.5	1058.4	936.8
22.5°	1036.3	1039.5	1047.4	1067.9	1086.8	1112.1	1139.0	1137.4	1132.7	1124.8	998.4
25°	1110.5	1110.5	1115.3	1132.7	1156.4	1186.4	1211.6	1216.4	1211.6	1206.9	1075.8
27.5°	1203.7	1205.3	1205.3	1224.3	1246.4	1284.3	1315.9	1320.6	1320.6	1315.9	1180.1
30°	1333.3	1328.5	1325.4	1341.2	1364.9	1420.2	1475.5	1484.9	1480.2	1488.1	1327.0
32.5°	1556.0	1548.1	1521.3	1524.4	1538.6	1614.5	1707.7	1740.9	1739.3	1753.5	1563.9
35°	1864.1	1848.3	1808.8	1775.6	1774.0	1856.2	1998.3	2123.1	2121.6	2170.5	1924.1
37.5°	2211.6	2232.1	2157.9	2101.0	2083.7	2148.4	2331.7	2601.8	2616.0	2701.3	2396.4
40°	2676.0	2688.7	2593.9	2513.3	2431.2	2454.9	2696.6	3116.8	3142.1	3236.8	2868.8
42.5°	3080.5	3093.1	3037.8	2939.9	2835.6	2791.4	3064.7	3584.4	3604.9	3736.0	3355.3
45°	3355.3	3364.8	3383.8	3393.2	3274.8	3183.1	3514.9	4064.6	4089.9	4241.5	3830.8
47.5°	3570.2	3578.1	3616.0	3710.8	3687.1	3614.4	3973.0	4563.8	4570.1	4739.2	4293.7
50°	3669.7	3688.6	3781.8	3927.2	4031.4	4052.0	4470.6	5036.1	5053.5	5214.7	4731.3
52.5°	3559.1	3565.4	3800.8	4074.1	4284.2	4492.7	4969.8	5473.7	5524.3	5644.3	5124.6
55°	3186.3	3232.1	3589.1	4069.4	4483.2	4911.3	5503.7	5946.1	5991.9	6067.7	5470.6
57.5°	2753.5	2804.0	3238.4	3865.6	4568.5	5298.4	5998.2	6448.4	6480.0	6500.5	5788.1
60°	2379.1	2426.4	2873.5	3475.4	4483.2	5571.7	6457.9	6947.6	6974.5	6919.2	5947.6
62.5°	1919.4	1966.8	2417.0	2958.8	4148.3	5627.0	6799.1	7391.5	7402.6	7252.5	5849.7
65°	1447.0	1478.6	1854.6	2319.0	3562.3	5333.1	6876.5	7668.0	7656.9	7348.9	5555.9
66°	1296.9	1323.8	1655.5	2050.5	3257.4	5064.6	6772.3	7690.1	7679.0	7277.8	5363.1
67.5°	1118.4	1126.3	1399.6	1677.7	2725.0	4494.3	6454.7	7589.0	7598.5	7081.9	5010.9
70°	873.6	872.0	1030.0	1167.4	1860.9	3197.4	5383.7	6952.3	6998.2	6342.6	4273.1
72.5°	559.2	540.3	631.9	714.0	1083.7	1856.2	3925.6	5666.5	5743.9	4982.4	3183.1
75°	333.3	314.4	336.5	357.0	519.7	892.5	2308.0	3856.1	3930.3	3194.2	1894.1
77.5°	249.6	241.7	243.3	225.9	230.6	334.9	1053.7	2037.8	2091.5	1308.0	718.8
80°	191.1	170.6	159.6	167.5	151.7	132.7	391.8	701.4	734.6	309.6	150.1
82.5°	128.0	110.6	102.7	112.2	96.4	74.2	94.8	135.9	132.7	83.7	58.4
85°	66.3	56.9	56.9	56.9	49.0	36.3	41.1	55.3	55.3	44.2	34.8
87.5°	19.0	17.4	20.5	19.0	14.2	14.2	15.8	19.0	19.0	17.4	15.8
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°	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3
2.5°	707.7	701.4	684.0	671.4	658.7	647.7	635.0	631.9	625.6	627.1	624.0
5°	712.5	695.1	665.1	636.6	614.5	595.6	571.9	562.4	549.7	545.0	541.8
7.5°	718.8	693.5	649.3	609.8	571.9	533.9	496.0	473.9	459.7	453.4	448.6
10°	733.0	699.8	641.4	579.8	515.0	461.3	423.4	407.6	398.1	396.5	394.9
12.5°	751.9	709.3	633.5	541.8	456.5	406.0	382.3	377.6	376.0	376.0	374.4
15°	780.4	725.1	620.8	497.6	410.7	376.0	364.9	357.0	353.9	353.9	353.9
17.5°	808.8	744.0	601.9	451.8	379.1	357.0	346.0	341.2	338.1	339.6	338.1
20°	845.1	766.2	576.6	412.3	358.6	341.2	330.2	325.4	323.8	323.8	323.8
22.5°	886.2	791.4	545.0	382.3	341.2	325.4	314.4	309.6	306.5	308.0	308.0
25°	941.5	823.0	511.8	352.3	323.8	309.6	297.0	290.7	290.7	292.2	293.8
27.5°	1012.6	860.9	478.7	333.3	308.0	293.8	279.6	273.3	274.9	278.0	278.0
30°	1116.9	913.1	445.5	312.8	290.7	274.9	262.2	255.9	259.1	265.4	265.4
32.5°	1265.4	998.4	417.0	289.1	265.4	248.0	235.4	230.6	238.5	251.2	251.2
35°	1530.7	1154.8	399.7	265.4	238.5	218.0	202.2	197.5	208.5	224.3	224.3
37.5°	1886.2	1406.0	406.0	244.9	216.4	192.7	175.3	169.0	176.9	191.1	195.9
40°	2282.7	1709.3	461.3	227.5	195.9	172.2	154.8	148.5	153.2	159.6	161.1
42.5°	2679.2	2031.5	565.5	214.8	180.1	154.8	139.0	134.3	137.4	139.0	140.6
45°	3074.1	2350.6	696.7	206.9	165.9	140.6	124.8	124.8	126.4	126.4	126.4
47.5°	3448.5	2661.8	834.1	205.4	153.2	126.4	113.7	115.3	115.3	116.9	116.9
50°	3802.4	2939.9	973.1	210.1	142.2	113.7	104.3	104.3	104.3	105.8	104.3
52.5°	4097.8	3183.1	1118.4	218.0	131.1	104.3	94.8	94.8	94.8	96.4	94.8
55°	4377.4	3404.3	1266.9	229.1	121.6	96.4	86.9	83.7	83.7	85.3	83.7
57.5°	4604.9	3551.2	1407.5	230.6	113.7	88.5	80.6	75.8	75.8	75.8	75.8
60°	4614.4	3465.9	1448.6	202.2	104.3	80.6	72.7	66.3	67.9	67.9	67.9
62.5°	4312.6	3017.3	1164.3	151.7	93.2	72.7	66.3	60.0	60.0	60.0	60.0
65°	3720.2	2347.5	682.4	120.1	80.6	64.8	58.4	53.7	53.7	53.7	52.1
66°	3442.2	2058.4	522.9	109.0	75.8	63.2	56.9	52.1	50.6	49.0	49.0
67.5°	2988.8	1627.1	327.0	96.4	69.5	58.4	52.1	47.4	45.8	44.2	44.2
70°	2251.1	1033.1	159.6	74.2	60.0	50.6	45.8	41.1	39.5	37.9	36.3
72.5°	1579.7	605.0	83.7	56.9	49.0	44.2	39.5	34.8	33.2	31.6	31.6
75°	892.5	292.2	55.3	41.1	39.5	36.3	33.2	28.4	26.9	26.9	26.9
77.5°	338.1	101.1	37.9	30.0	31.6	28.4	23.7	23.7	22.1	23.7	22.1
80°	88.5	44.2	23.7	22.1	23.7	20.5	17.4	19.0	19.0	19.0	19.0
82.5°	47.4	25.3	14.2	15.8	14.2	14.2	11.1	12.6	14.2	12.6	14.2
85°	33.2	12.6	7.9	7.9	6.3	6.3	4.7	6.3	7.9	6.3	6.3
87.5°	17.4	4.7	4.7	4.7	4.7	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)