

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: P1211670

Luminaire Tested: **ARCH4-80-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211670
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: ARCH4-80-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8681 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 83.4
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



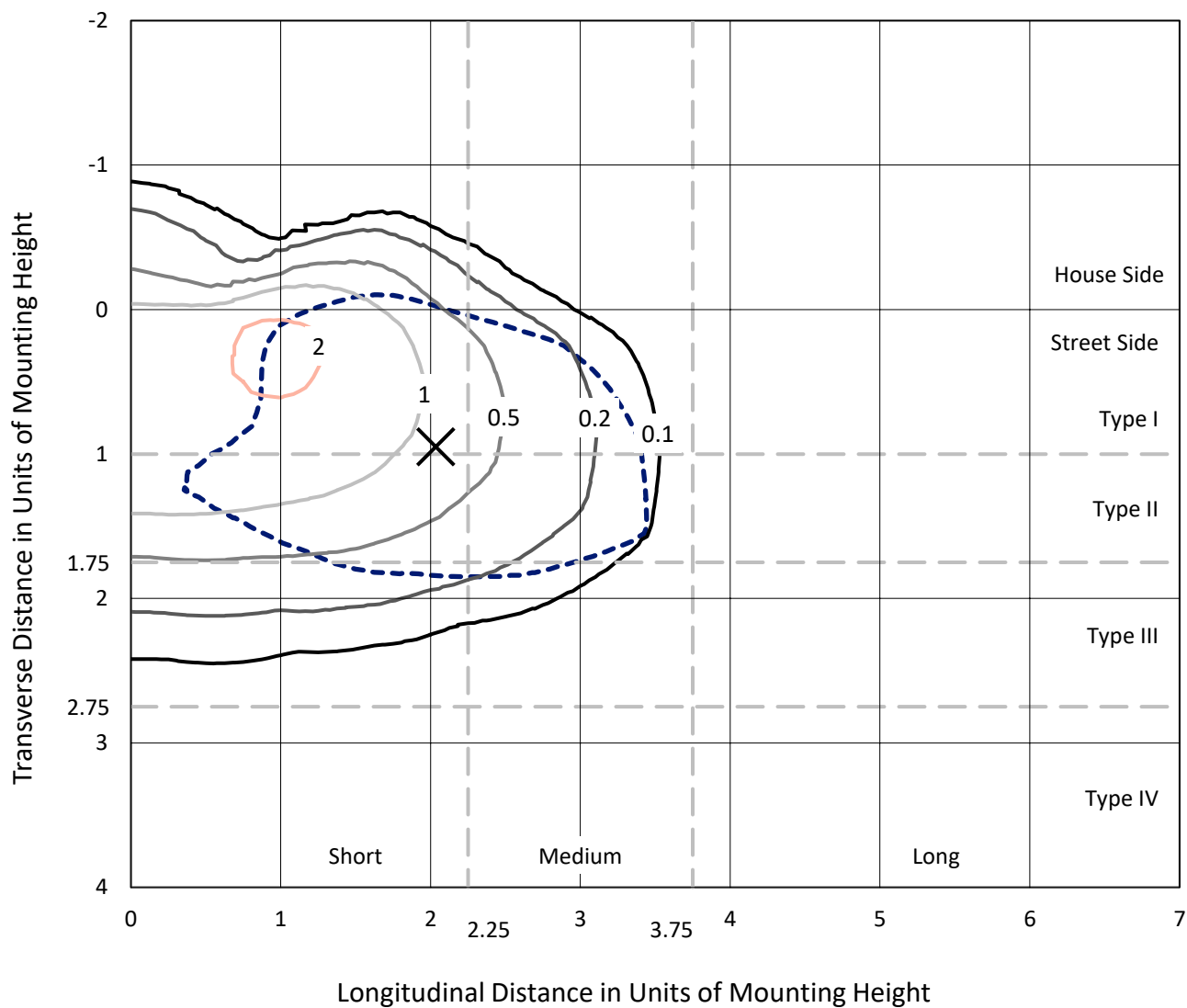
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Iso-Footcandle Lines of Horizontal Illumination

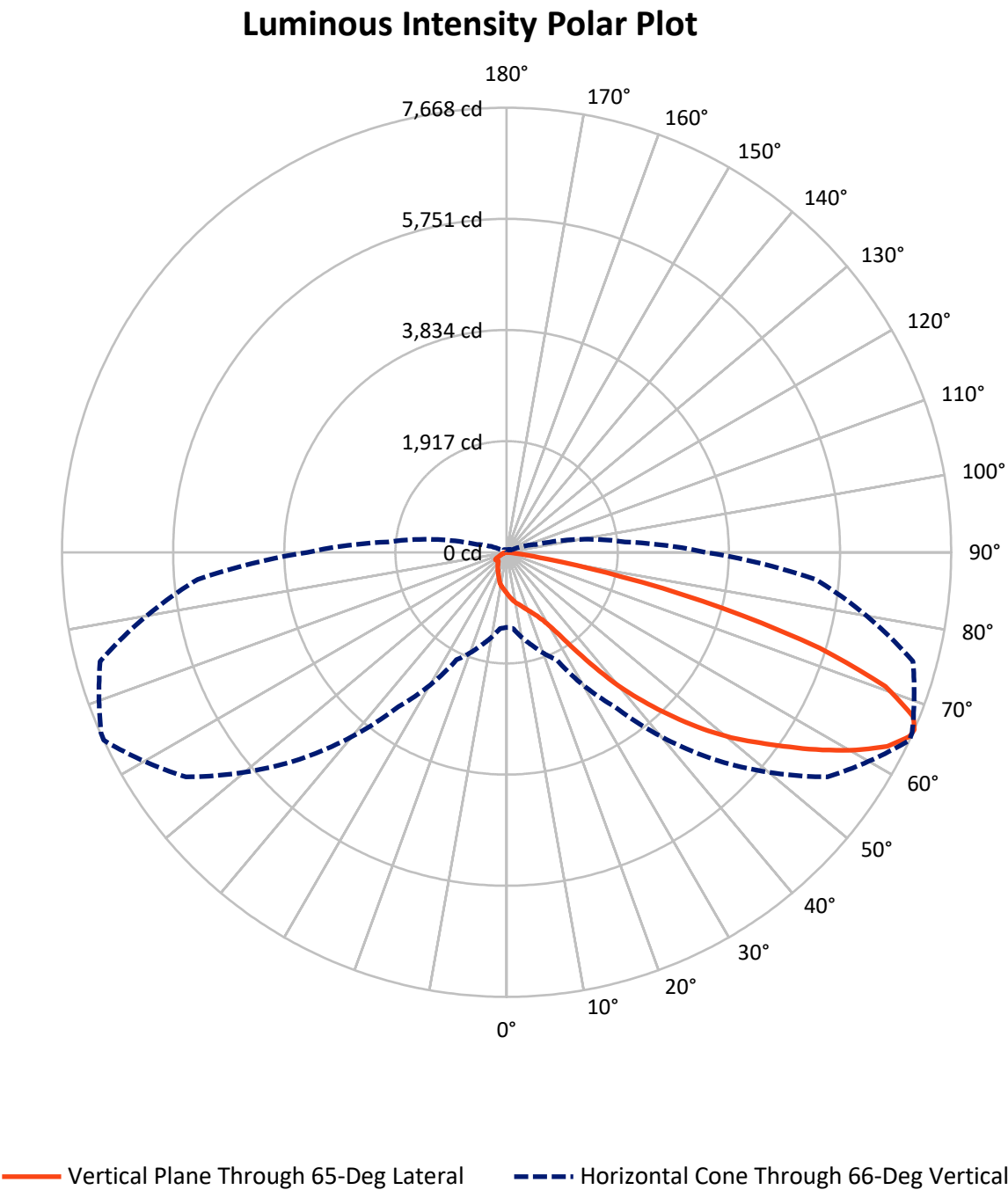
✕ Max cd

--- 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	1024.5	0.0	1024.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	7656.5	0.0	7656.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	8681.0	0.0	8681.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	0.8
10°-20°	198.5	2.3
20°-30°	363.3	4.2
30°-40°	738.2	8.5
40°-50°	1558.9	18.0
50°-60°	2396.5	27.6
60°-70°	2412.2	27.8
70°-80°	901.3	10.4
80°-90°	45.0	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°	8681.0	100.0
0°-180°	8681.0	100.0

Coefficient of Utilization



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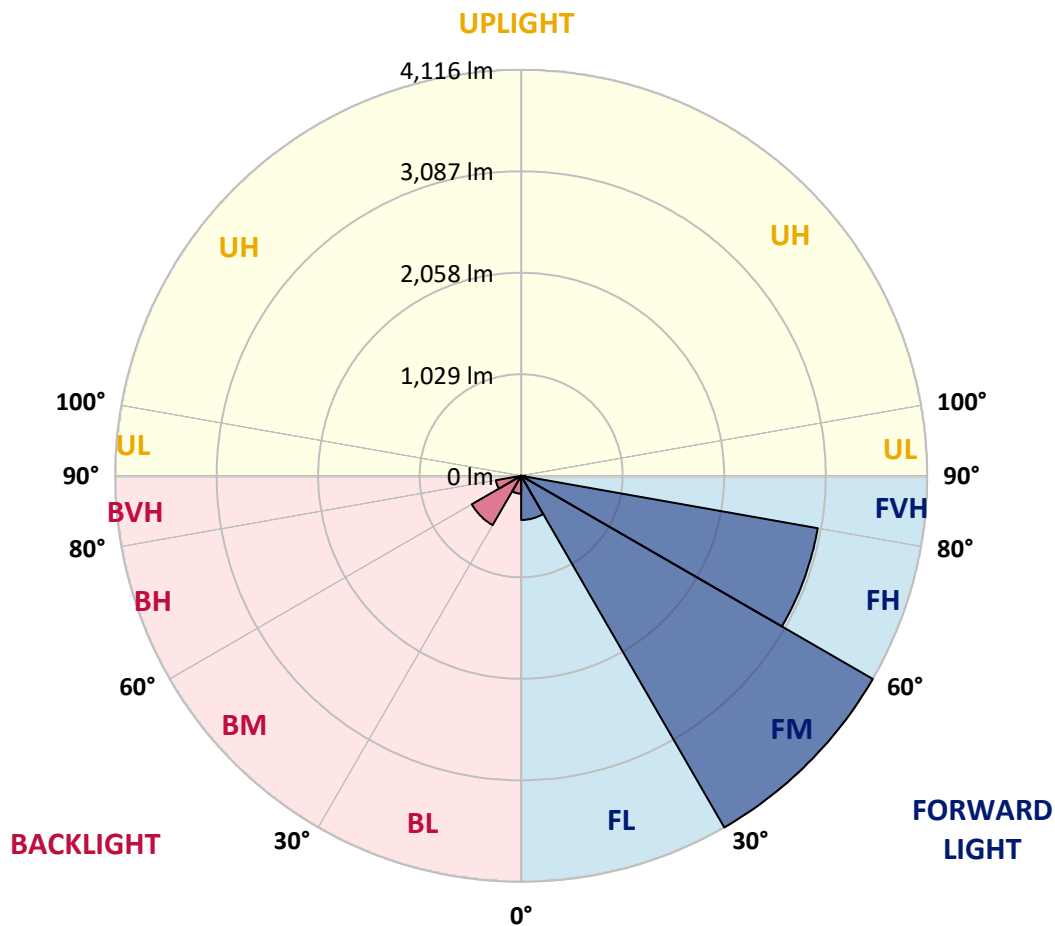
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	447.5	5.2			
FM	(30°-60°)	4115.9	47.4			
FH	(60°-80°)	3053.3	35.2			G2/5000
FVH	(80°-90°)	39.7	0.5			G1/100
BL	(0°-30°)	181.3	2.1	B1/500		
BM	(30°-60°)	577.6	6.7	B1/1000		
BH	(60°-80°)	260.3	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°	707.3	707.3	707.3	707.3	707.3	707.3	707.3	707.3	707.3	707.3	707.3
2.5°	806.5	808.1	804.9	798.6	792.3	784.4	771.8	751.4	748.2	734.0	718.3
5°	861.6	864.8	860.1	858.5	855.3	844.3	827.0	797.0	793.9	765.5	729.3
7.5°	880.5	885.3	882.1	882.1	882.1	877.4	869.5	842.7	838.0	801.8	746.6
10°	894.7	897.9	896.3	902.6	907.3	904.2	899.4	883.7	879.0	842.7	770.3
12.5°	916.8	918.3	919.9	923.1	930.9	934.1	932.5	918.3	915.2	890.0	800.2
15°	937.2	937.2	938.8	953.0	964.0	970.3	971.9	960.9	957.7	937.2	838.0
17.5°	956.1	957.7	962.4	978.2	997.1	1009.7	1017.6	1012.8	1008.1	992.4	882.1
20°	984.5	987.6	992.4	1014.4	1033.3	1053.8	1069.5	1068.0	1066.4	1055.4	934.1
22.5°	1033.3	1036.5	1044.3	1064.8	1083.7	1108.9	1135.7	1134.1	1129.4	1121.5	995.5
25°	1107.4	1107.4	1112.1	1129.4	1153.0	1183.0	1208.2	1212.9	1208.2	1203.4	1072.7
27.5°	1200.3	1201.9	1201.9	1220.8	1242.8	1280.6	1312.1	1316.9	1316.9	1312.1	1176.7
30°	1329.5	1324.7	1321.6	1337.3	1361.0	1416.1	1471.2	1480.7	1475.9	1483.8	1323.2
32.5°	1551.6	1543.7	1516.9	1520.1	1534.2	1609.8	1702.8	1735.9	1734.3	1748.5	1559.4
35°	1858.7	1843.0	1803.6	1770.5	1768.9	1850.8	1992.6	2117.0	2115.5	2164.3	1918.6
37.5°	2205.3	2225.7	2151.7	2095.0	2077.7	2142.2	2325.0	2594.3	2608.5	2693.6	2389.6
40°	2668.4	2681.0	2586.5	2506.1	2424.2	2447.8	2688.8	3107.8	3133.0	3227.6	2860.5
42.5°	3071.6	3084.2	3029.1	2931.4	2827.5	2783.3	3055.9	3574.1	3594.6	3725.3	3345.7
45°	3345.7	3355.1	3374.0	3383.5	3265.4	3174.0	3504.8	4052.9	4078.1	4229.4	3819.8
47.5°	3559.9	3567.8	3605.6	3700.1	3676.5	3604.0	3961.6	4550.7	4557.0	4725.5	4281.3
50°	3659.2	3678.1	3771.0	3915.9	4019.9	4040.3	4457.8	5021.7	5039.0	5199.7	4717.7
52.5°	3548.9	3555.2	3789.9	4062.4	4271.9	4479.8	4955.5	5458.0	5508.4	5628.1	5109.9
55°	3177.1	3222.8	3578.8	4057.7	4470.4	4897.2	5487.9	5929.0	5974.7	6050.3	5454.9
57.5°	2745.5	2796.0	3229.1	3854.5	4555.4	5283.2	5981.0	6429.9	6461.4	6481.9	5771.5
60°	2372.2	2419.5	2865.3	3465.4	4470.4	5555.7	6439.3	6927.7	6954.4	6899.3	5930.6
62.5°	1913.8	1961.1	2410.0	2950.3	4136.4	5610.8	6779.6	7370.3	7381.3	7231.7	5832.9
65°	1442.9	1474.4	1849.3	2312.4	3552.0	5317.8	6856.8	7645.9	7634.9	7327.8	5539.9
66°	1293.2	1320.0	1650.8	2044.6	3248.0	5050.0	6752.8	7668.0	7657.0	7256.9	5347.7
67.5°	1115.2	1123.1	1395.6	1672.8	2717.2	4481.4	6436.2	7567.2	7576.6	7061.5	4996.5
70°	871.1	869.5	1027.0	1164.1	1855.6	3188.2	5368.2	6932.4	6978.1	6324.4	4260.9
72.5°	557.6	538.7	630.1	712.0	1080.6	1850.8	3914.3	5650.2	5727.4	4968.1	3174.0
75°	332.4	313.5	335.5	356.0	518.2	890.0	2301.3	3845.0	3919.1	3185.0	1888.6
77.5°	248.9	241.0	242.6	225.3	230.0	333.9	1050.6	2032.0	2085.5	1304.3	716.7
80°	190.6	170.1	159.1	167.0	151.2	132.3	390.6	699.4	732.5	308.7	149.6
82.5°	127.6	110.3	102.4	111.8	96.1	74.0	94.5	135.5	132.3	83.5	58.3
85°	66.2	56.7	56.7	56.7	48.8	36.2	41.0	55.1	55.1	44.1	34.7
87.5°	18.9	17.3	20.5	18.9	14.2	14.2	15.8	18.9	18.9	17.3	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°	707.3	707.3	707.3	707.3	707.3	707.3	707.3	707.3	707.3	707.3	707.3
2.5°	705.7	699.4	682.1	669.5	656.9	645.8	633.2	630.1	623.8	625.3	622.2
5°	710.4	693.1	663.2	634.8	612.7	593.8	570.2	560.8	548.2	543.4	540.3
7.5°	716.7	691.5	647.4	608.0	570.2	532.4	494.6	472.6	458.4	452.1	447.4
10°	730.9	697.8	639.5	578.1	513.5	460.0	422.1	406.4	396.9	395.4	393.8
12.5°	749.8	707.3	631.6	540.3	455.2	404.8	381.2	376.5	374.9	374.9	373.3
15°	778.1	723.0	619.0	496.2	409.5	374.9	363.9	356.0	352.8	352.8	352.8
17.5°	806.5	741.9	600.1	450.5	378.0	356.0	345.0	340.2	337.1	338.7	337.1
20°	842.7	764.0	574.9	411.1	357.6	340.2	329.2	324.5	322.9	322.9	322.9
22.5°	883.7	789.2	543.4	381.2	340.2	324.5	313.5	308.7	305.6	307.2	307.2
25°	938.8	820.7	510.4	351.3	322.9	308.7	296.1	289.8	289.8	291.4	293.0
27.5°	1009.7	858.5	477.3	332.4	307.2	293.0	278.8	272.5	274.1	277.2	277.2
30°	1113.7	910.5	444.2	311.9	289.8	274.1	261.5	255.2	258.3	264.6	264.6
32.5°	1261.7	995.5	415.8	288.3	264.6	247.3	234.7	230.0	237.9	250.5	250.5
35°	1526.4	1151.5	398.5	264.6	237.9	217.4	201.6	196.9	207.9	223.7	223.7
37.5°	1880.8	1401.9	404.8	244.2	215.8	192.2	174.8	168.5	176.4	190.6	195.3
40°	2276.1	1704.3	460.0	226.8	195.3	171.7	154.4	148.1	152.8	159.1	160.7
42.5°	2671.5	2025.7	563.9	214.2	179.6	154.4	138.6	133.9	137.0	138.6	140.2
45°	3065.3	2343.9	694.7	206.3	165.4	140.2	124.4	124.4	126.0	126.0	126.0
47.5°	3438.6	2654.2	831.7	204.8	152.8	126.0	113.4	115.0	115.0	116.6	116.6
50°	3791.5	2931.4	970.3	209.5	141.8	113.4	104.0	104.0	104.0	105.5	104.0
52.5°	4086.0	3174.0	1115.2	217.4	130.7	104.0	94.5	94.5	94.5	96.1	94.5
55°	4364.8	3394.5	1263.3	228.4	121.3	96.1	86.6	83.5	83.5	85.1	83.5
57.5°	4591.7	3541.0	1403.5	230.0	113.4	88.2	80.3	75.6	75.6	75.6	75.6
60°	4601.1	3456.0	1444.4	201.6	104.0	80.3	72.5	66.2	67.7	67.7	67.7
62.5°	4300.3	3008.6	1160.9	151.2	92.9	72.5	66.2	59.9	59.9	59.9	59.9
65°	3709.6	2340.7	680.5	119.7	80.3	64.6	58.3	53.6	53.6	53.6	52.0
66°	3432.3	2052.5	521.4	108.7	75.6	63.0	56.7	52.0	50.4	48.8	48.8
67.5°	2980.2	1622.4	326.1	96.1	69.3	58.3	52.0	47.3	45.7	44.1	44.1
70°	2244.6	1030.2	159.1	74.0	59.9	50.4	45.7	41.0	39.4	37.8	36.2
72.5°	1575.2	603.3	83.5	56.7	48.8	44.1	39.4	34.7	33.1	31.5	31.5
75°	890.0	291.4	55.1	41.0	39.4	36.2	33.1	28.4	26.8	26.8	26.8
77.5°	337.1	100.8	37.8	29.9	31.5	28.4	23.6	23.6	22.1	23.6	22.1
80°	88.2	44.1	23.6	22.1	23.6	20.5	17.3	18.9	18.9	18.9	18.9
82.5°	47.3	25.2	14.2	15.8	14.2	14.2	11.0	12.6	14.2	12.6	14.2
85°	33.1	12.6	7.9	7.9	6.3	6.3	4.7	6.3	7.9	6.3	6.3
87.5°	17.3	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)