

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: P1210952

Luminaire Tested: **ARCH4-120-750-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-120-750-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1000mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14969 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 122
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



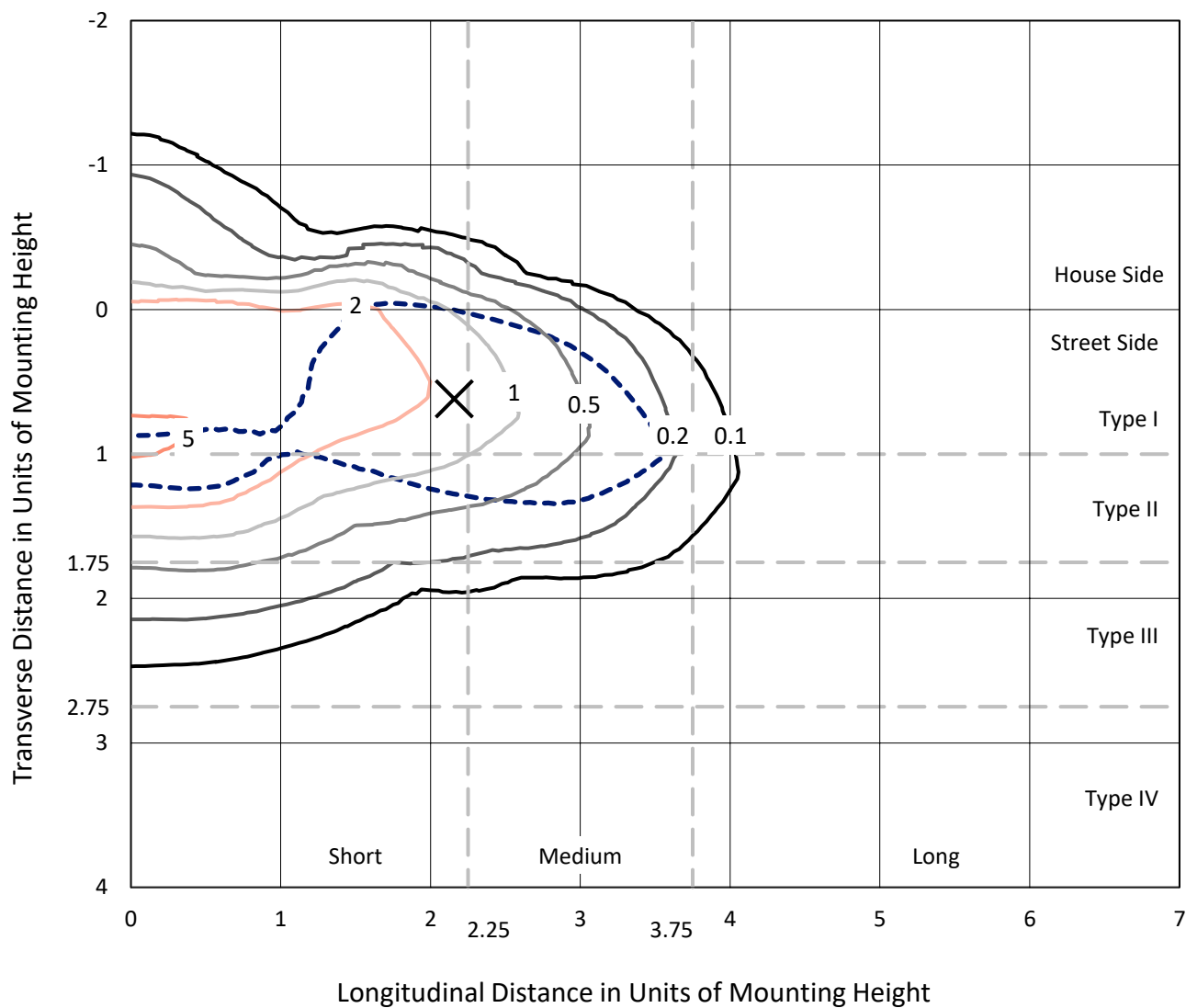
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Iso-Footcandle Lines of Horizontal Illumination

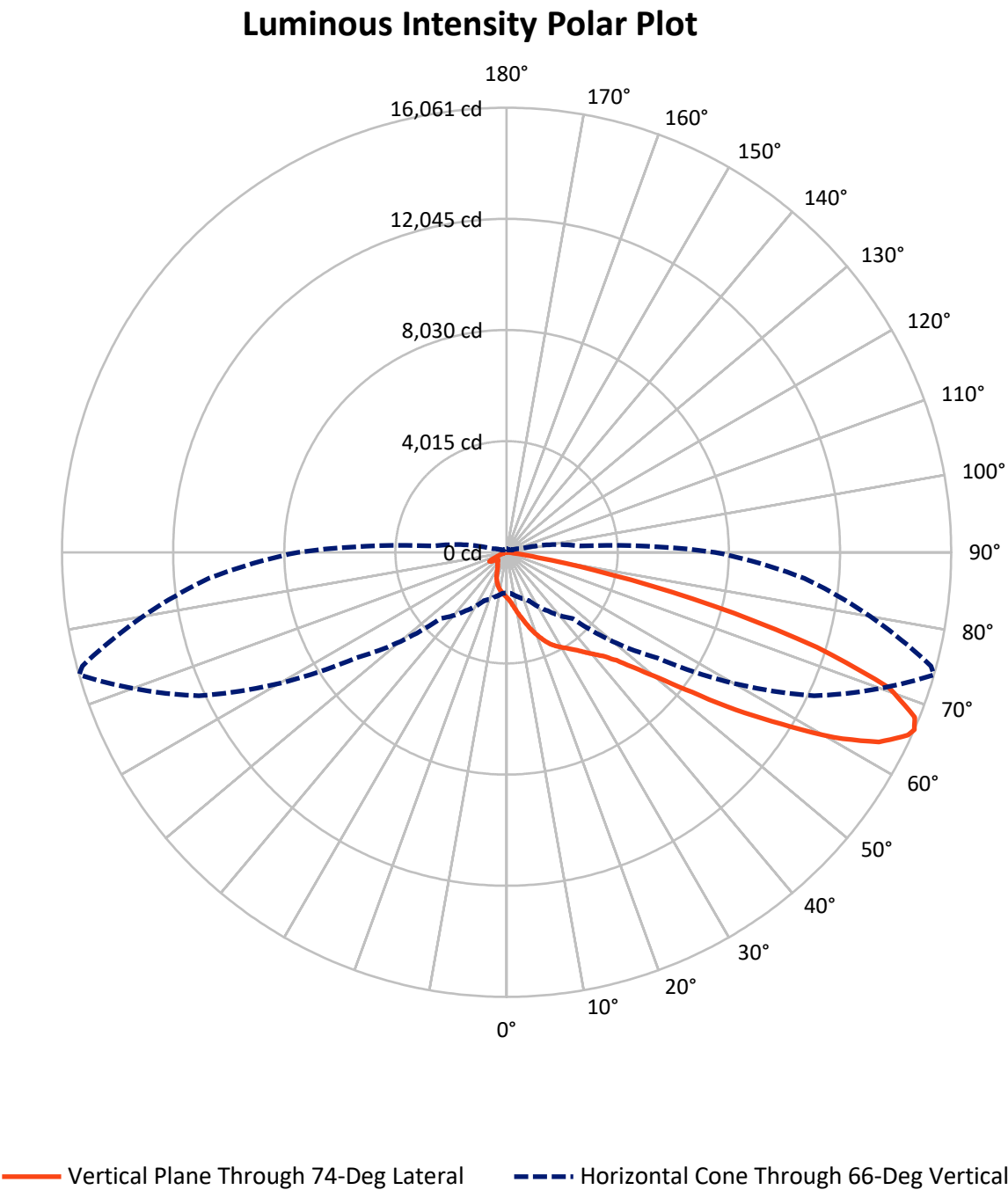
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1467.4	0.0	1467.4
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	13501.6	0.0	13501.6
	% Fixture	90.2	0.0	90.2
Total	Lumens	14969.0	0.0	14969.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.5	1.1
10°-20°	511.3	3.4
20°-30°	975.8	6.5
30°-40°	1710.3	11.4
40°-50°	2932.7	19.6
50°-60°	3814.2	25.5
60°-70°	3452.8	23.1
70°-80°	1332.3	8.9
80°-90°	80.2	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°	14969.0	100.0
0°-180°	14969.0	100.0

Coefficient of Utilization



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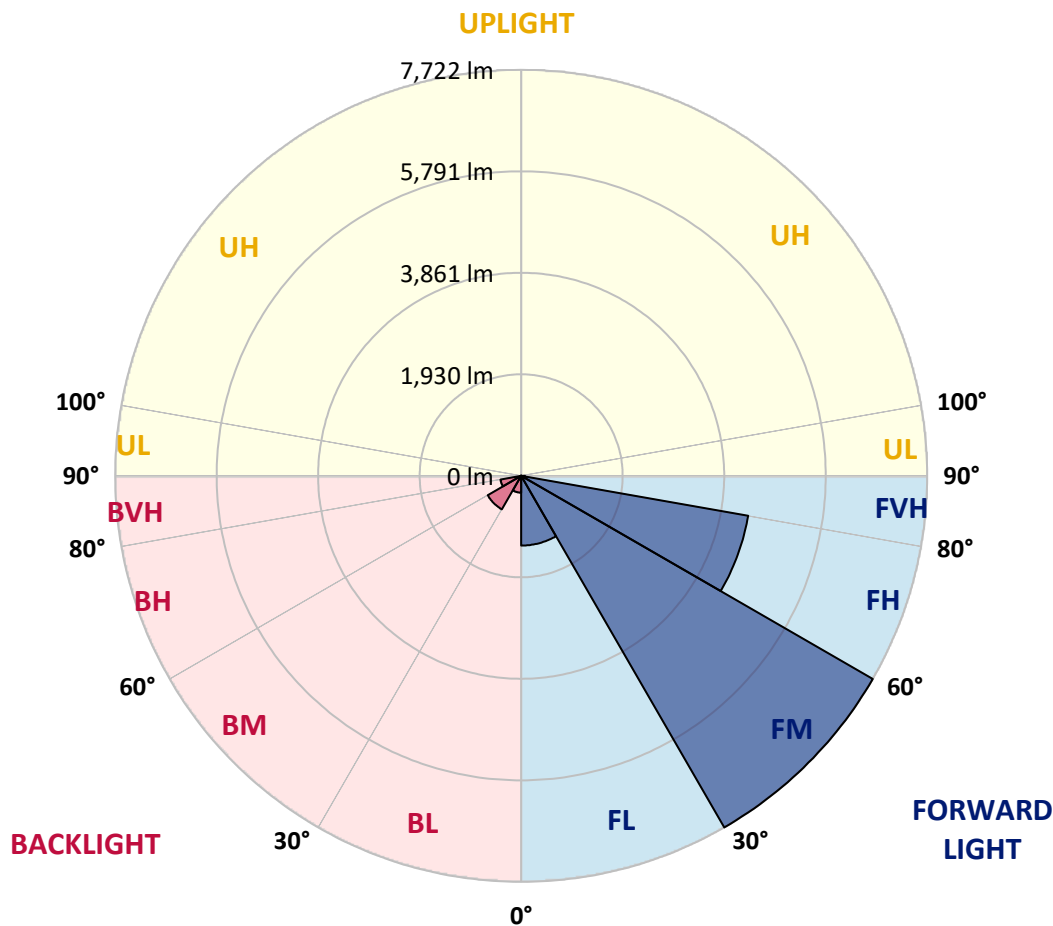
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1326.5	8.9			
FM	(30°-60°)	7721.8	51.6			
FH	(60°-80°)	4383.9	29.3			G2/5000
FVH	(80°-90°)	69.4	0.5			G1/100
BL	(0°-30°)	320.1	2.1	B1/500		
BM	(30°-60°)	735.4	4.9	B1/1000		
BH	(60°-80°)	401.2	2.7	B1/500		G1/500
BVH	(80°-90°)	10.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0
2.5°	1961.9	1945.7	1916.2	1913.5	1889.3	1859.7	1808.7	1754.9	1717.3	1711.9	1666.2
5°	2348.9	2340.8	2311.2	2292.4	2246.7	2176.9	2058.6	1940.4	1840.9	1830.2	1728.1
7.5°	2451.0	2456.4	2461.7	2480.6	2464.4	2432.2	2343.5	2176.9	2021.0	1996.8	1819.4
10°	2467.1	2461.7	2461.7	2485.9	2531.6	2577.3	2566.6	2424.1	2222.6	2193.0	1945.7
12.5°	2641.8	2649.9	2631.1	2620.3	2612.2	2636.4	2717.1	2655.2	2434.9	2410.7	2098.9
15°	2867.6	2864.9	2838.0	2838.0	2813.8	2773.5	2824.6	2870.2	2690.2	2660.6	2273.6
17.5°	3031.5	3042.2	3039.6	3055.7	3047.6	2993.9	2967.0	3061.1	2953.6	2915.9	2472.5
20°	3163.2	3192.7	3203.5	3254.6	3278.7	3241.1	3171.2	3230.4	3206.2	3171.2	2674.1
22.5°	3302.9	3327.1	3345.9	3434.6	3501.8	3493.7	3405.1	3391.6	3450.7	3418.5	2872.9
25°	3442.7	3453.4	3509.9	3617.4	3724.9	3751.7	3660.4	3555.6	3671.1	3641.6	3050.3
27.5°	3595.9	3601.2	3668.4	3800.1	3950.6	4007.1	3934.5	3741.0	3840.4	3840.4	3211.6
30°	3875.4	3929.1	3956.0	4074.2	4205.9	4283.9	4197.9	3937.2	3990.9	4015.1	3380.9
32.5°	4477.4	4485.4	4477.4	4528.4	4555.3	4601.0	4501.6	4157.6	4144.1	4171.0	3547.5
35°	5396.5	5364.2	5278.2	5203.0	5047.1	4961.1	4832.1	4439.7	4332.2	4369.9	3711.4
37.5°	6511.8	6466.1	6269.9	6038.8	5705.5	5361.5	5200.3	4783.7	4571.4	4619.8	3888.8
40°	7576.0	7546.5	7312.7	7027.8	6458.0	5869.5	5528.2	5074.0	4837.5	4856.3	4068.9
42.5°	8452.2	8446.8	8250.6	7952.3	7221.3	6417.7	5915.2	5358.9	5117.0	5146.5	4257.0
45°	9116.0	9064.9	8919.8	8704.8	7960.4	6987.5	6382.8	5791.5	5565.8	5600.7	4539.2
47.5°	9116.0	9124.0	9218.1	9196.6	8476.4	7522.3	6893.4	6337.1	6229.6	6261.9	5004.1
50°	8374.2	8449.5	8868.7	9220.8	8745.1	7938.9	7444.4	7019.7	7129.9	7178.3	5815.7
52.5°	6906.9	7033.2	7761.5	8565.0	8546.2	8148.5	8014.1	7887.8	8382.3	8468.3	7014.4
55°	5248.7	5332.0	6280.7	7336.9	7680.9	7976.5	8511.3	8989.7	10040.5	10021.7	8231.8
57.5°	3921.1	3999.0	4816.0	5987.7	6441.9	7232.0	8766.6	10250.1	11685.2	11757.8	9374.0
60°	2883.7	2942.8	3638.9	4601.0	5256.7	6092.5	8664.5	11491.7	13579.9	13496.6	10381.8
62.5°	2133.9	2166.1	2668.7	3294.9	4165.6	4963.8	8022.2	12341.0	15093.0	14923.6	10943.5
65°	1650.1	1660.9	1921.6	2254.8	3028.8	3859.2	7065.4	12470.0	15928.8	15748.7	10932.7
66°	1470.1	1478.1	1668.9	1926.9	2577.3	3378.2	6646.2	12263.0	16060.5	15869.6	10798.3
67.5°	1233.6	1228.2	1341.1	1510.4	1935.0	2606.9	5901.7	11658.3	15904.6	15807.8	10368.3
70°	913.7	916.4	972.9	1013.2	1131.4	1443.2	4262.4	10113.0	14657.6	14652.2	9188.5
72.5°	677.2	685.3	728.3	736.4	706.8	782.1	2456.4	8043.7	11725.5	11728.2	6869.2
75°	507.9	521.4	534.8	540.2	513.3	494.5	1109.9	5412.6	7713.1	7656.7	3888.8
77.5°	387.0	392.4	403.1	395.1	389.7	341.3	462.2	2639.1	3808.2	3469.6	1260.4
80°	282.2	282.2	292.9	282.2	279.5	244.6	252.6	846.6	1118.0	929.9	271.4
82.5°	177.4	174.7	182.7	180.1	174.7	155.9	147.8	236.5	258.0	231.1	131.7
85°	99.4	96.7	94.1	91.4	83.3	69.9	80.6	88.7	118.2	120.9	94.1
87.5°	34.9	34.9	32.2	29.6	24.2	24.2	29.6	29.6	43.0	43.0	48.4
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°	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0	1634.0
2.5°	1644.7	1615.2	1572.2	1515.7	1475.4	1435.1	1392.1	1367.9	1333.0	1324.9	1335.7
5°	1674.3	1620.6	1513.1	1394.8	1292.7	1201.3	1115.3	1064.2	1013.2	994.4	1002.4
7.5°	1736.1	1644.7	1462.0	1271.2	1101.9	964.8	862.7	803.6	757.9	739.1	744.4
10°	1827.5	1687.7	1413.6	1131.4	913.7	768.6	682.6	645.0	618.1	607.4	610.1
12.5°	1937.7	1749.6	1351.8	991.7	752.5	626.2	585.9	577.8	572.4	567.1	569.7
15°	2061.3	1803.3	1279.2	854.6	626.2	556.3	542.9	540.2	537.5	537.5	537.5
17.5°	2190.3	1851.7	1198.6	725.6	545.6	513.3	505.2	505.2	505.2	507.9	507.9
20°	2311.2	1889.3	1104.6	610.1	499.9	473.0	467.6	467.6	470.3	473.0	473.0
22.5°	2429.5	1905.4	994.4	529.4	462.2	438.1	430.0	430.0	430.0	432.7	432.7
25°	2531.6	1905.4	884.2	478.4	430.0	405.8	395.1	392.4	395.1	395.1	395.1
27.5°	2617.6	1897.4	776.7	443.4	397.7	373.6	362.8	360.1	365.5	368.2	368.2
30°	2709.0	1886.6	690.7	411.2	370.9	346.7	335.9	335.9	344.0	354.7	354.7
32.5°	2797.7	1894.7	623.5	384.3	344.0	325.2	314.4	317.1	333.2	349.4	349.4
35°	2891.7	1910.8	583.2	365.5	325.2	306.4	298.3	306.4	322.5	338.6	338.6
37.5°	2985.8	1929.6	559.0	349.4	309.1	290.2	284.9	295.6	314.4	330.6	333.2
40°	3085.2	1945.7	532.1	333.2	298.3	276.8	274.1	284.9	309.1	325.2	327.9
42.5°	3208.9	1978.0	499.9	319.8	287.6	260.7	263.4	271.4	295.6	319.8	322.5
45°	3450.7	2080.1	467.6	306.4	274.1	252.6	247.2	252.6	279.5	306.4	311.7
47.5°	3904.9	2311.2	432.7	292.9	260.7	247.2	225.7	231.1	255.3	284.9	287.6
50°	4775.7	2803.1	413.9	279.5	249.9	228.4	204.2	204.2	223.1	249.9	249.9
52.5°	6132.9	3684.6	424.6	268.7	236.5	209.6	185.4	182.7	193.5	212.3	212.3
55°	7597.5	4652.1	464.9	258.0	220.4	198.9	172.0	158.6	166.6	177.4	177.4
57.5°	8758.5	5138.5	575.1	252.6	201.6	190.8	155.9	137.1	145.1	155.9	155.9
60°	9269.2	4853.6	698.7	258.0	188.1	177.4	139.7	120.9	134.4	145.1	147.8
62.5°	8855.3	3996.3	749.8	244.6	169.3	158.6	137.1	112.9	129.0	137.1	139.7
65°	7960.4	3036.9	585.9	212.3	155.9	137.1	123.6	107.5	120.9	129.0	129.0
66°	7535.7	2647.2	499.9	196.2	150.5	129.0	118.2	107.5	118.2	123.6	126.3
67.5°	6877.3	2088.2	370.9	172.0	139.7	118.2	110.2	102.1	112.9	118.2	118.2
70°	5377.7	1244.3	223.1	134.4	120.9	104.8	99.4	94.1	102.1	104.8	104.8
72.5°	3367.4	591.2	142.4	99.4	102.1	99.4	83.3	88.7	91.4	94.1	94.1
75°	1631.3	233.8	96.7	72.6	83.3	94.1	67.2	77.9	80.6	86.0	83.3
77.5°	454.2	112.9	61.8	53.7	72.6	72.6	51.1	61.8	72.6	91.4	83.3
80°	131.7	72.6	40.3	40.3	51.1	51.1	34.9	43.0	48.4	53.7	56.4
82.5°	91.4	48.4	26.9	29.6	29.6	32.2	21.5	21.5	26.9	26.9	29.6
85°	72.6	21.5	16.1	18.8	13.4	16.1	10.7	10.7	13.4	10.7	10.7
87.5°	29.6	10.7	10.7	10.7	8.1	8.1	5.4	2.7	2.7	2.7	2.7
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)