

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: P1210364

Luminaire Tested: **ARCH3-100-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210364
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: ARCH3-100-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11006 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 102.6
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

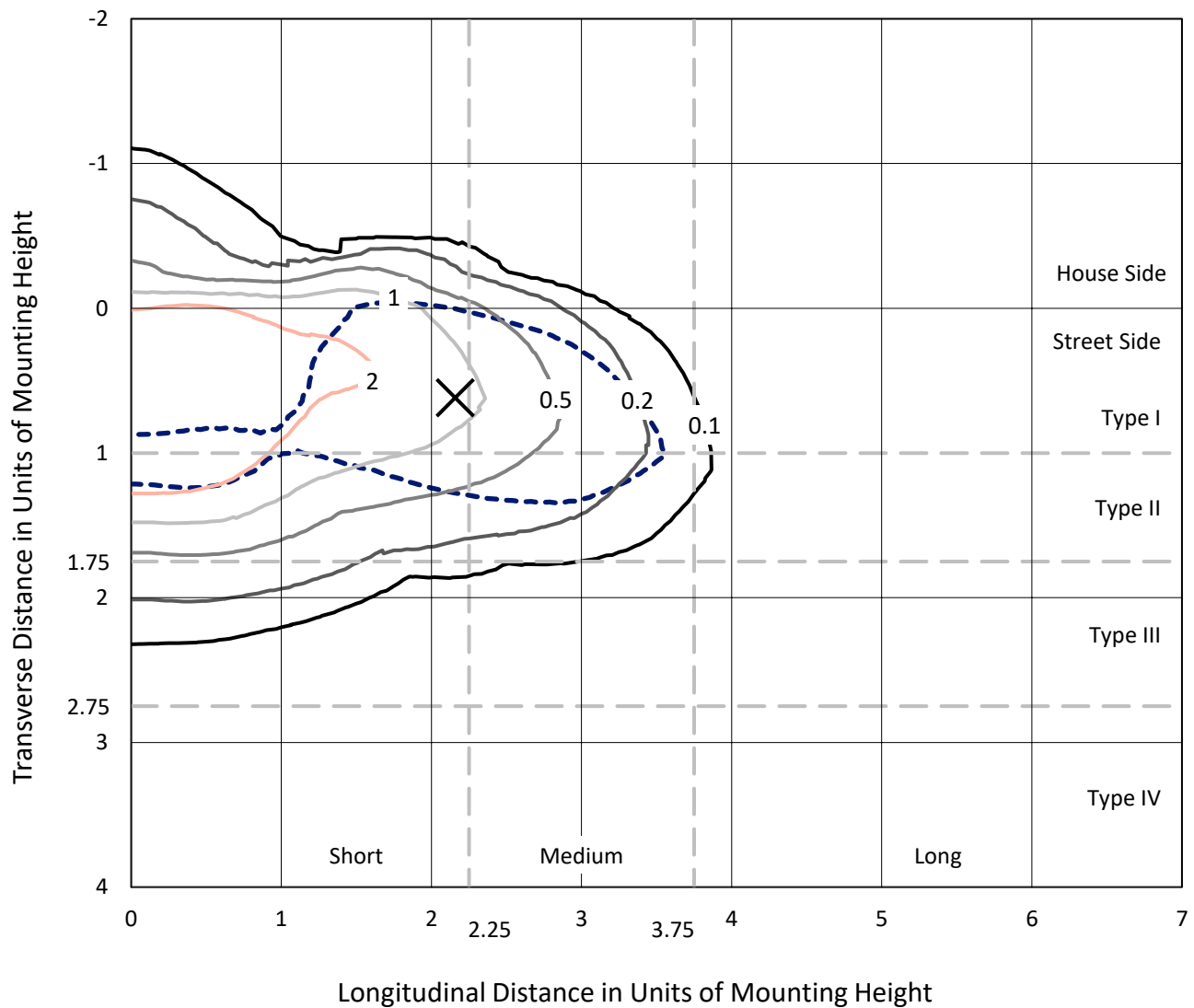


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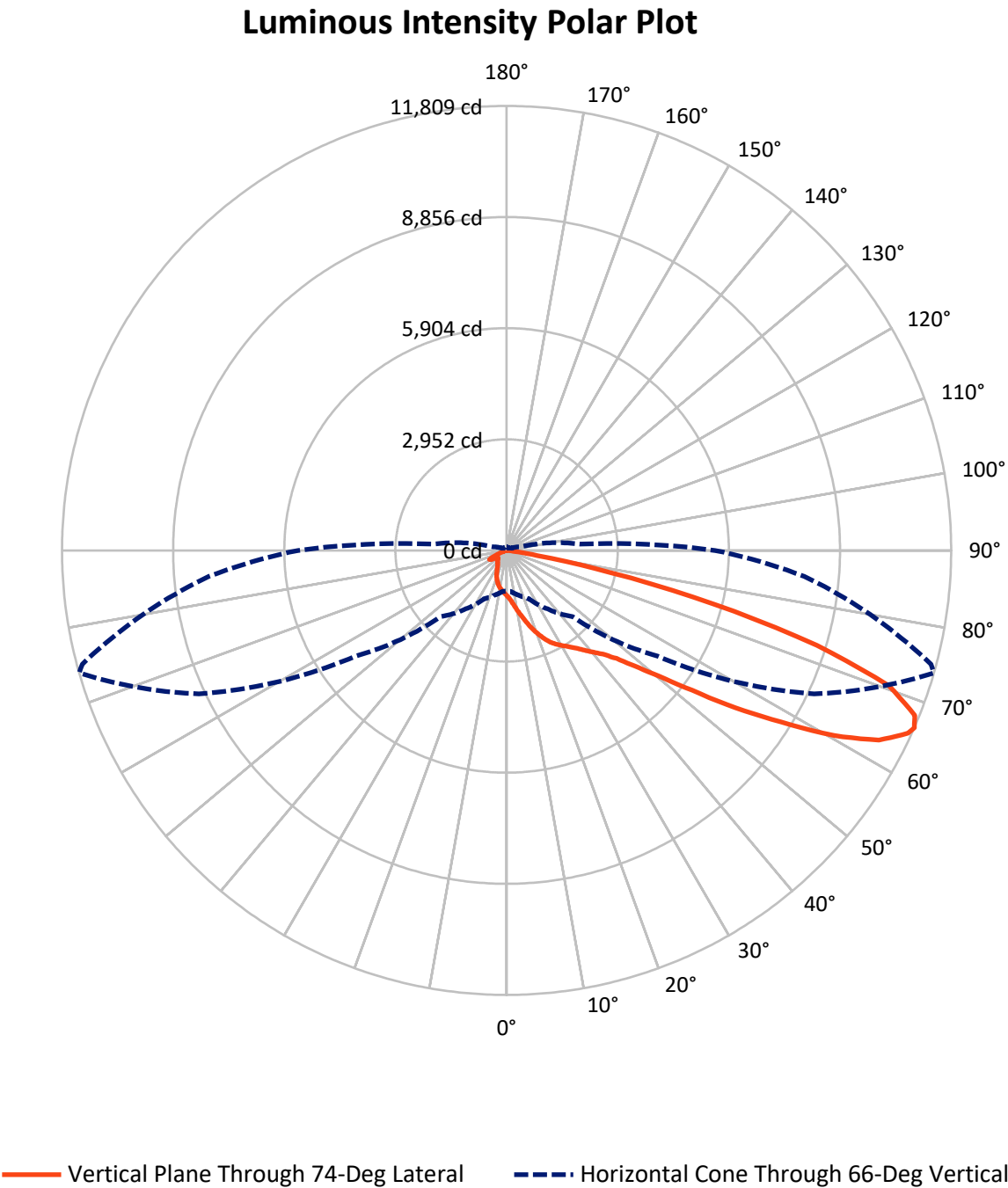
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1078.9	0.0	1078.9
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	9927.1	0.0	9927.1
	% Fixture	90.2	0.0	90.2
Total	Lumens	11006.0	0.0	11006.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.3	1.1
10°-20°	375.9	3.4
20°-30°	717.4	6.5
30°-40°	1257.5	11.4
40°-50°	2156.3	19.6
50°-60°	2804.4	25.5
60°-70°	2538.7	23.1
70°-80°	979.6	8.9
80°-90°	58.9	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°	11006.0	100.0
0°-180°	11006.0	100.0

Coefficient of Utilization



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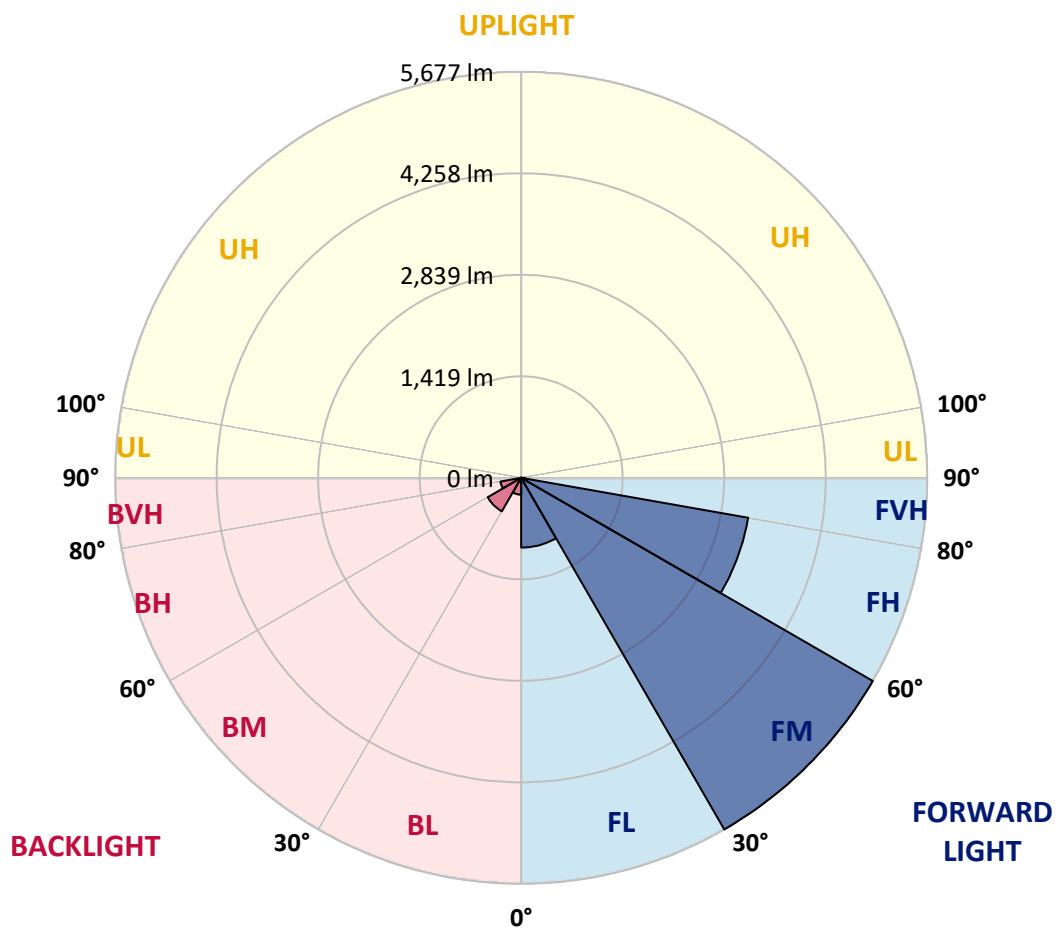
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	975.3	8.9			
FM	(30°-60°)	5677.5	51.6			
FH	(60°-80°)	3223.3	29.3			G2/5000
FVH	(80°-90°)	51.0	0.5			G1/100
BL	(0°-30°)	235.3	2.1	B1/500		
BM	(30°-60°)	540.7	4.9	B1/1000		
BH	(60°-80°)	295.0	2.7	B1/500		G1/500
BVH	(80°-90°)	7.9	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1201.4	1201.4	1201.4	1201.4	1201.4	1201.4	1201.4	1201.4	1201.4	1201.4	1201.4
2.5°	1442.5	1430.6	1408.9	1406.9	1389.1	1367.4	1329.8	1290.3	1262.7	1258.7	1225.1
5°	1727.0	1721.1	1699.3	1685.5	1651.9	1600.5	1513.6	1426.7	1353.6	1345.6	1270.6
7.5°	1802.1	1806.1	1810.0	1823.8	1812.0	1788.3	1723.1	1600.5	1485.9	1468.2	1337.7
10°	1814.0	1810.0	1810.0	1827.8	1861.4	1895.0	1887.1	1782.3	1634.1	1612.4	1430.6
12.5°	1942.4	1948.3	1934.5	1926.6	1920.7	1938.4	1997.7	1952.3	1790.2	1772.5	1543.2
15°	2108.4	2106.4	2086.6	2086.6	2068.9	2039.2	2076.8	2110.4	1978.0	1956.2	1671.7
17.5°	2228.9	2236.8	2234.8	2246.7	2240.8	2201.2	2181.5	2250.6	2171.6	2143.9	1817.9
20°	2325.7	2347.5	2355.4	2392.9	2410.7	2383.0	2331.7	2375.1	2357.4	2331.7	1966.1
22.5°	2428.5	2446.3	2460.1	2525.3	2574.7	2568.8	2503.6	2493.7	2537.2	2513.5	2112.3
25°	2531.2	2539.1	2580.6	2659.7	2738.7	2758.5	2691.3	2614.2	2699.2	2677.5	2242.7
27.5°	2643.9	2647.8	2697.2	2794.0	2904.7	2946.2	2892.8	2750.6	2823.7	2823.7	2361.3
30°	2849.4	2888.9	2908.7	2995.6	3092.4	3149.7	3086.5	2894.8	2934.3	2952.1	2485.8
32.5°	3292.0	3297.9	3292.0	3329.5	3349.3	3382.9	3309.8	3056.9	3047.0	3066.7	2608.3
35°	3967.8	3944.1	3880.8	3825.5	3710.9	3647.7	3552.8	3264.3	3185.3	3213.0	2728.8
37.5°	4787.8	4754.2	4610.0	4440.0	4195.0	3942.1	3823.5	3517.3	3361.2	3396.7	2859.3
40°	5570.3	5548.6	5376.7	5167.2	4748.3	4315.6	4064.6	3730.7	3556.8	3570.6	2991.6
42.5°	6214.5	6210.5	6066.3	5846.9	5309.5	4718.7	4349.1	3940.1	3762.3	3784.0	3130.0
45°	6702.5	6665.0	6558.3	6400.2	5852.9	5137.6	4693.0	4258.3	4092.3	4118.0	3337.4
47.5°	6702.5	6708.5	6777.6	6761.8	6232.3	5530.8	5068.4	4659.4	4580.3	4604.0	3679.3
50°	6157.2	6212.5	6520.8	6779.6	6429.9	5837.1	5473.5	5161.3	5242.3	5277.9	4276.0
52.5°	5078.3	5171.2	5706.7	6297.5	6283.6	5991.2	5892.4	5799.5	6163.1	6226.3	5157.3
55°	3859.1	3920.4	4617.9	5394.4	5647.4	5864.7	6258.0	6609.7	7382.3	7368.5	6052.4
57.5°	2883.0	2940.3	3541.0	4402.5	4736.4	5317.4	6445.7	7536.4	8591.6	8644.9	6892.2
60°	2120.2	2163.7	2675.5	3382.9	3865.0	4479.6	6370.6	8449.3	9984.7	9923.4	7633.2
62.5°	1568.9	1592.6	1962.2	2422.6	3062.8	3649.6	5898.3	9073.7	11097.1	10972.7	8046.2
65°	1213.3	1221.2	1412.8	1657.9	2226.9	2837.5	5194.9	9168.6	11711.7	11579.3	8038.3
66°	1080.9	1086.8	1227.1	1416.8	1895.0	2483.8	4886.6	9016.4	11808.5	11668.2	7939.5
67.5°	907.0	903.0	986.0	1110.5	1422.7	1916.7	4339.3	8571.8	11693.9	11622.8	7623.4
70°	671.8	673.8	715.3	744.9	831.9	1061.1	3133.9	7435.6	10777.0	10773.1	6755.9
72.5°	497.9	503.9	535.5	541.4	519.7	575.0	1806.1	5914.1	8621.2	8623.2	5050.6
75°	373.5	383.3	393.2	397.2	377.4	363.6	816.1	3979.6	5671.1	5629.6	2859.3
77.5°	284.5	288.5	296.4	290.5	286.5	251.0	339.9	1940.4	2800.0	2551.0	926.7
80°	207.5	207.5	215.4	207.5	205.5	179.8	185.7	622.4	822.0	683.7	199.6
82.5°	130.4	128.4	134.4	132.4	128.4	114.6	108.7	173.9	189.7	169.9	96.8
85°	73.1	71.1	69.2	67.2	61.3	51.4	59.3	65.2	86.9	88.9	69.2
87.5°	25.7	25.7	23.7	21.7	17.8	17.8	21.7	21.7	31.6	31.6	35.6
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°	1201.4	1201.4	1201.4	1201.4	1201.4	1201.4	1201.4	1201.4	1201.4	1201.4	1201.4
2.5°	1209.3	1187.6	1156.0	1114.5	1084.8	1055.2	1023.6	1005.8	980.1	974.2	982.1
5°	1231.0	1191.5	1112.5	1025.5	950.4	883.3	820.0	782.5	744.9	731.1	737.0
7.5°	1276.5	1209.3	1074.9	934.6	810.2	709.4	634.3	590.8	557.2	543.4	547.3
10°	1343.7	1240.9	1039.4	831.9	671.8	565.1	501.9	474.2	454.5	446.6	448.5
12.5°	1424.7	1286.4	993.9	729.1	553.3	460.4	430.8	424.8	420.9	416.9	418.9
15°	1515.6	1325.9	940.6	628.4	460.4	409.0	399.1	397.2	395.2	395.2	395.2
17.5°	1610.4	1361.5	881.3	533.5	401.1	377.4	371.5	371.5	371.5	373.5	373.5
20°	1699.3	1389.1	812.1	448.5	367.5	347.8	343.8	343.8	345.8	347.8	347.8
22.5°	1786.3	1401.0	731.1	389.3	339.9	322.1	316.2	316.2	316.2	318.1	318.1
25°	1861.4	1401.0	650.1	351.7	316.2	298.4	290.5	288.5	290.5	290.5	290.5
27.5°	1924.6	1395.0	571.1	326.0	292.4	274.7	266.8	264.8	268.7	270.7	270.7
30°	1991.8	1387.1	507.8	302.3	272.7	254.9	247.0	247.0	252.9	260.8	260.8
32.5°	2057.0	1393.1	458.4	282.6	252.9	239.1	231.2	233.2	245.0	256.9	256.9
35°	2126.2	1404.9	428.8	268.7	239.1	225.3	219.3	225.3	237.1	249.0	249.0
37.5°	2195.3	1418.8	411.0	256.9	227.2	213.4	209.5	217.4	231.2	243.0	245.0
40°	2268.4	1430.6	391.2	245.0	219.3	203.5	201.6	209.5	227.2	239.1	241.1
42.5°	2359.3	1454.3	367.5	235.1	211.4	191.7	193.6	199.6	217.4	235.1	237.1
45°	2537.2	1529.4	343.8	225.3	201.6	185.7	181.8	185.7	205.5	225.3	229.2
47.5°	2871.1	1699.3	318.1	215.4	191.7	181.8	166.0	169.9	187.7	209.5	211.4
50°	3511.3	2061.0	304.3	205.5	183.8	168.0	150.2	150.2	164.0	183.8	183.8
52.5°	4509.2	2709.1	312.2	197.6	173.9	154.1	136.3	134.4	142.3	156.1	156.1
55°	5586.1	3420.4	341.8	189.7	162.0	146.2	126.5	116.6	122.5	130.4	130.4
57.5°	6439.7	3778.1	422.9	185.7	148.2	140.3	114.6	100.8	106.7	114.6	114.6
60°	6815.2	3568.6	513.8	189.7	138.3	130.4	102.8	88.9	98.8	106.7	108.7
62.5°	6510.9	2938.3	551.3	179.8	124.5	116.6	100.8	83.0	94.8	100.8	102.8
65°	5852.9	2232.9	430.8	156.1	114.6	100.8	90.9	79.0	88.9	94.8	94.8
66°	5540.7	1946.3	367.5	144.2	110.7	94.8	86.9	79.0	86.9	90.9	92.9
67.5°	5056.6	1535.3	272.7	126.5	102.8	86.9	81.0	75.1	83.0	86.9	86.9
70°	3953.9	914.9	164.0	98.8	88.9	77.1	73.1	69.2	75.1	77.1	77.1
72.5°	2475.9	434.7	104.7	73.1	75.1	73.1	61.3	65.2	67.2	69.2	69.2
75°	1199.4	171.9	71.1	53.4	61.3	69.2	49.4	57.3	59.3	63.2	61.3
77.5°	333.9	83.0	45.4	39.5	53.4	53.4	37.5	45.4	53.4	67.2	61.3
80°	96.8	53.4	29.6	29.6	37.5	37.5	25.7	31.6	35.6	39.5	41.5
82.5°	67.2	35.6	19.8	21.7	21.7	23.7	15.8	15.8	19.8	19.8	21.7
85°	53.4	15.8	11.9	13.8	9.9	11.9	7.9	7.9	9.9	7.9	7.9
87.5°	21.7	7.9	7.9	7.9	5.9	5.9	4.0	2.0	2.0	2.0	2.0
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)