

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: P1210844

Luminaire Tested: **ARCH3-90-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210844
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: ARCH3-90-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 735mA 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: 10168 lumens
Efficiency: N/A
Efficacy: 109.2 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): 93.1
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



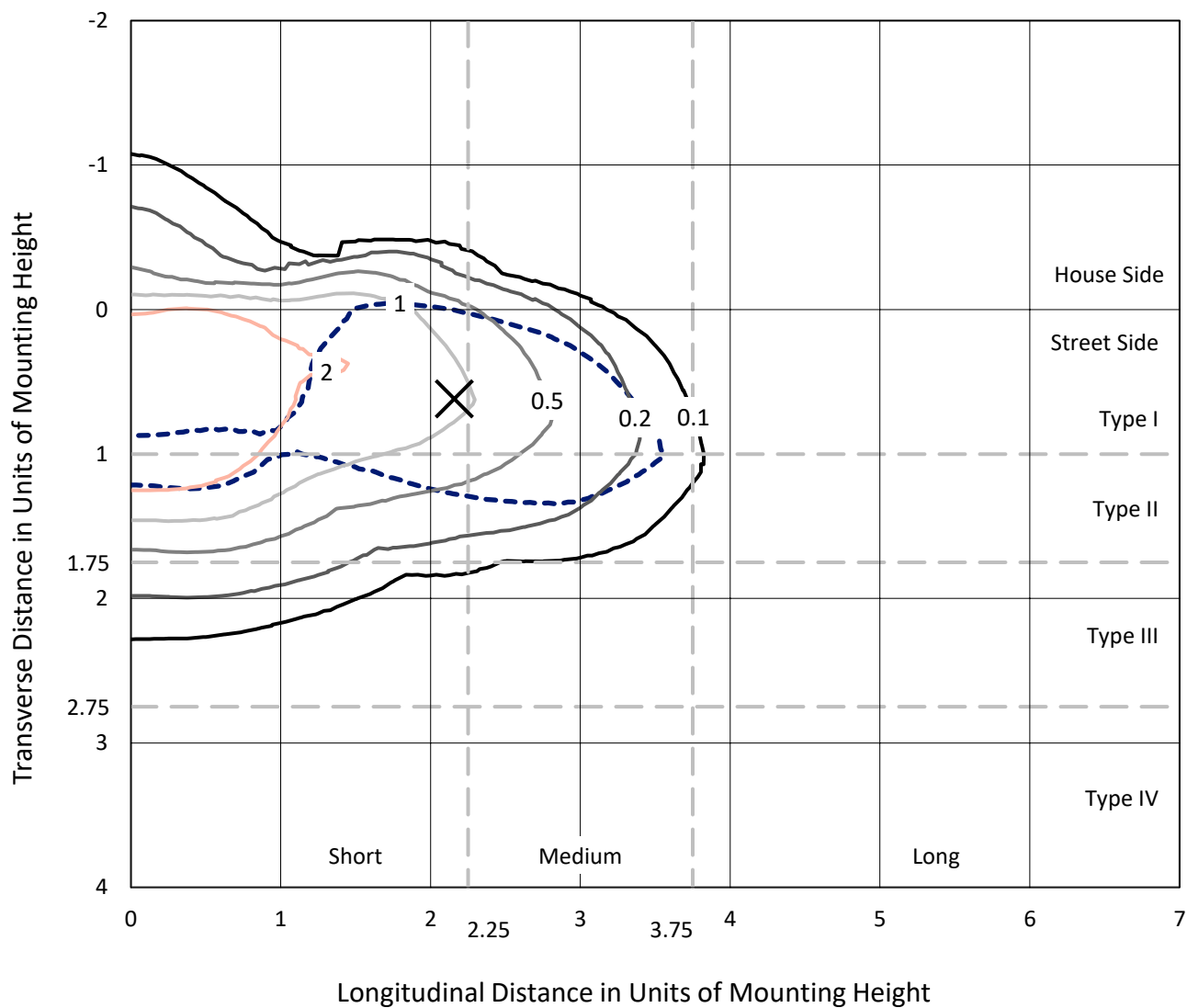
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Iso-Footcandle Lines of Horizontal Illumination

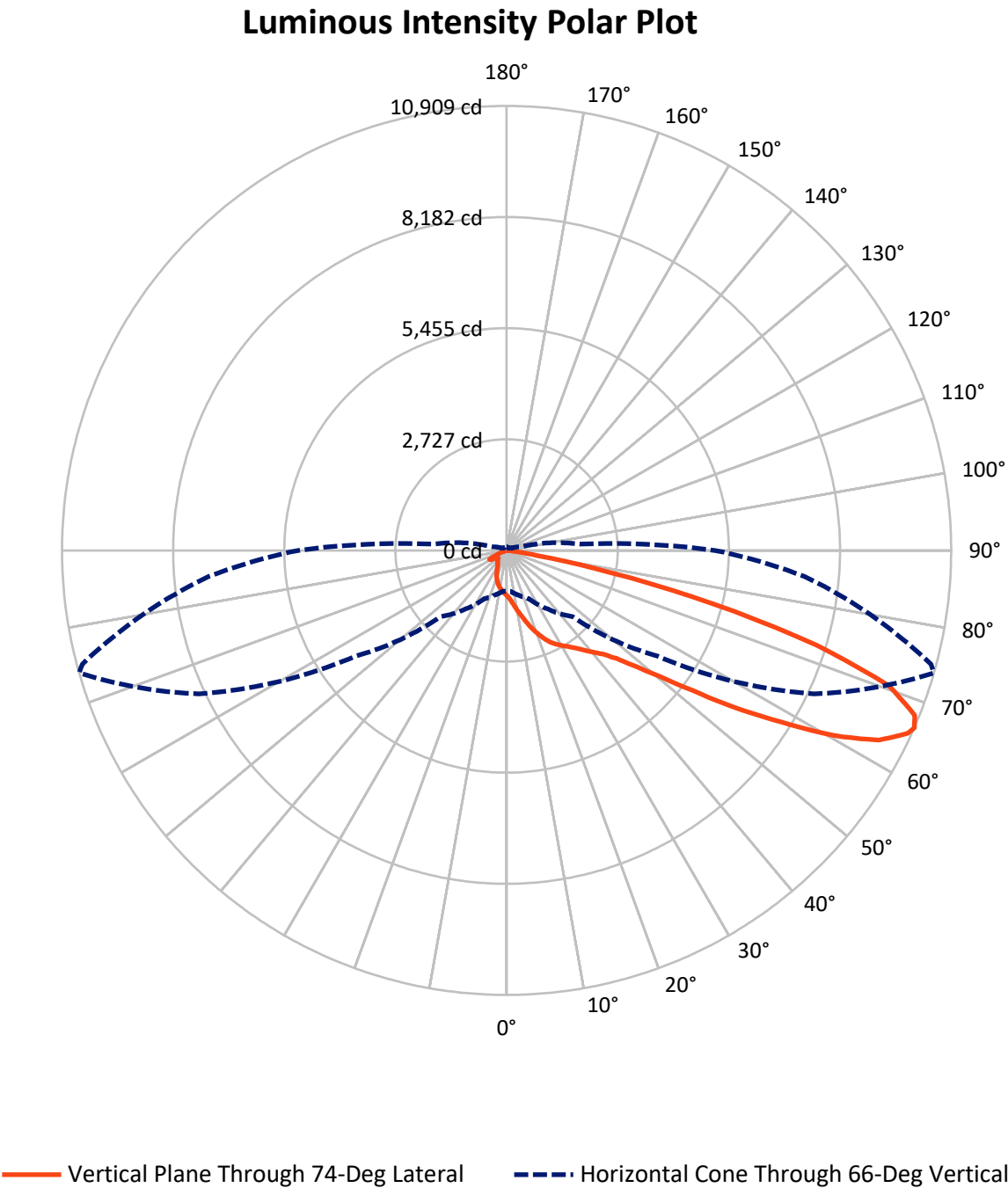
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	996.8	0.0	996.8
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	9171.2	0.0	9171.2
	% Fixture	90.2	0.0	90.2
Total	Lumens	10168.0	0.0	10168.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	1.1
10°-20°	347.3	3.4
20°-30°	662.8	6.5
30°-40°	1161.8	11.4
40°-50°	1992.1	19.6
50°-60°	2590.9	25.5
60°-70°	2345.4	23.1
70°-80°	905.0	8.9
80°-90°	54.5	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°	10168.0	100.0
0°-180°	10168.0	100.0

Coefficient of Utilization



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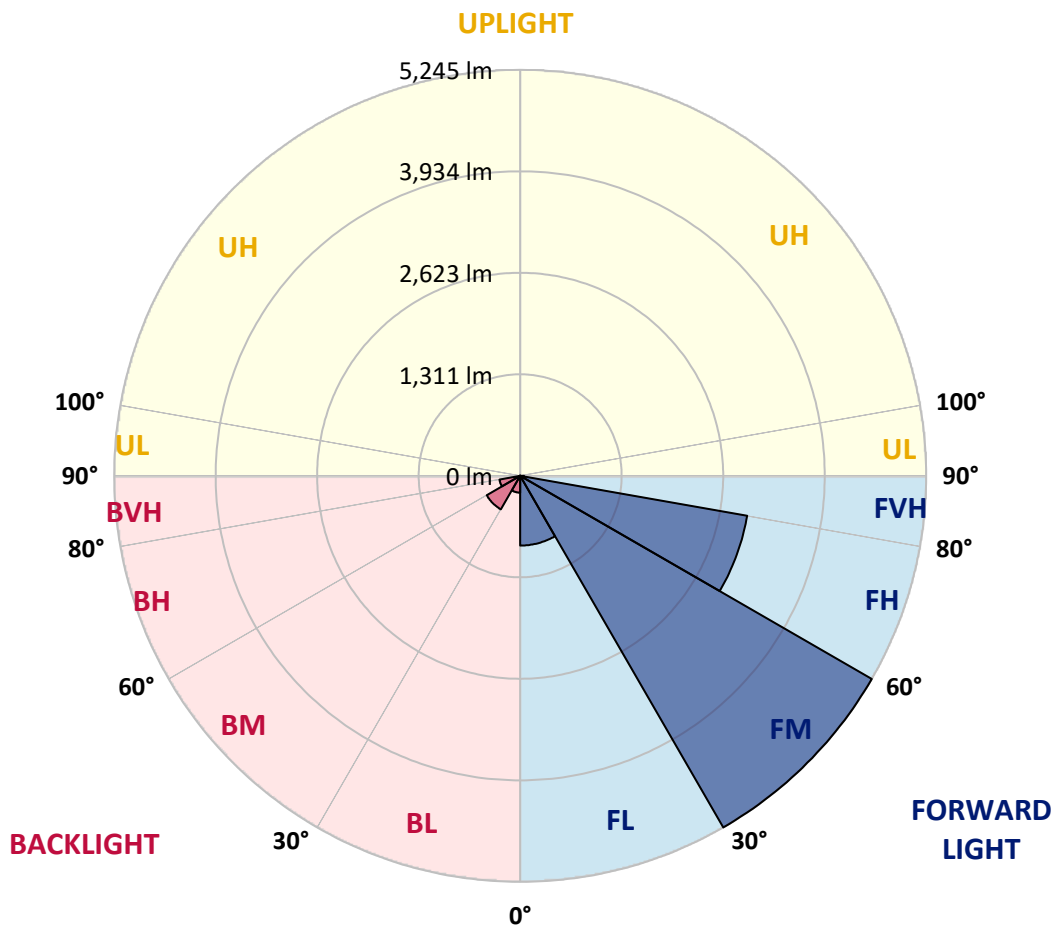
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	901.0	8.9			
FM	(30°-60°)	5245.2	51.6			
FH	(60°-80°)	2977.9	29.3			G2/5000
FVH	(80°-90°)	47.2	0.5			G1/100
BL	(0°-30°)	217.4	2.1	B1/500		
BM	(30°-60°)	499.6	4.9	B1/1000		
BH	(60°-80°)	272.5	2.7	B1/500		G1/500
BVH	(80°-90°)	7.3	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9
2.5°	1332.6	1321.7	1301.6	1299.8	1283.4	1263.3	1228.6	1192.1	1166.5	1162.9	1131.8
5°	1595.5	1590.0	1570.0	1557.2	1526.1	1478.7	1398.4	1318.0	1250.5	1243.2	1173.8
7.5°	1664.9	1668.5	1672.2	1685.0	1674.0	1652.1	1591.9	1478.7	1372.8	1356.4	1235.9
10°	1675.8	1672.2	1672.2	1688.6	1719.7	1750.7	1743.4	1646.6	1509.7	1489.6	1321.7
12.5°	1794.5	1800.0	1787.2	1779.9	1774.4	1790.8	1845.6	1803.6	1653.9	1637.5	1425.7
15°	1947.8	1946.0	1927.8	1927.8	1911.3	1884.0	1918.6	1949.7	1827.4	1807.3	1544.4
17.5°	2059.2	2066.5	2064.7	2075.6	2070.2	2033.6	2015.4	2079.3	2006.3	1980.7	1679.5
20°	2148.7	2168.7	2176.0	2210.7	2227.2	2201.6	2154.1	2194.3	2177.9	2154.1	1816.4
22.5°	2243.6	2260.0	2272.8	2333.0	2378.7	2373.2	2313.0	2303.8	2344.0	2322.1	1951.5
25°	2338.5	2345.8	2384.1	2457.2	2530.2	2548.4	2486.4	2415.2	2493.7	2473.6	2072.0
27.5°	2442.6	2446.2	2491.9	2581.3	2683.5	2721.9	2672.6	2541.1	2608.7	2608.7	2181.5
30°	2632.4	2668.9	2687.2	2767.5	2857.0	2909.9	2851.5	2674.4	2710.9	2727.3	2296.5
32.5°	3041.3	3046.8	3041.3	3076.0	3094.3	3125.3	3057.8	2824.1	2815.0	2833.2	2409.7
35°	3665.7	3643.8	3585.4	3534.2	3428.4	3369.9	3282.3	3015.8	2942.8	2968.3	2521.1
37.5°	4423.3	4392.2	4259.0	4102.0	3875.6	3641.9	3532.4	3249.5	3105.2	3138.1	2641.5
40°	5146.2	5126.1	4967.3	4773.8	4386.8	3987.0	3755.1	3446.6	3286.0	3298.7	2763.9
42.5°	5741.3	5737.7	5604.4	5401.8	4905.2	4359.4	4018.0	3640.1	3475.8	3495.9	2891.6
45°	6192.2	6157.5	6058.9	5912.9	5407.2	4746.4	4335.6	3934.0	3780.7	3804.4	3083.3
47.5°	6192.2	6197.7	6261.6	6247.0	5757.7	5109.7	4682.5	4304.6	4231.6	4253.5	3399.1
50°	5688.4	5739.5	6024.3	6263.4	5940.3	5392.6	5056.7	4768.3	4843.1	4876.0	3950.5
52.5°	4691.6	4777.4	5272.1	5818.0	5805.2	5535.0	5443.7	5357.9	5693.8	5752.3	4764.6
55°	3565.3	3621.9	4266.3	4983.7	5217.4	5418.2	5781.5	6106.4	6820.2	6807.4	5591.6
57.5°	2663.5	2716.4	3271.4	4067.3	4375.8	4912.5	5954.9	6962.6	7937.4	7986.7	6367.5
60°	1958.8	1999.0	2471.8	3125.3	3570.7	4138.5	5885.5	7806.0	9224.4	9167.8	7052.0
62.5°	1449.5	1471.4	1812.8	2238.1	2829.6	3371.8	5449.2	8382.9	10252.2	10137.2	7433.6
65°	1120.9	1128.2	1305.3	1531.6	2057.4	2621.5	4799.3	8470.5	10819.9	10697.6	7426.3
66°	998.6	1004.0	1133.7	1308.9	1750.7	2294.7	4514.5	8329.9	10909.4	10779.8	7335.0
67.5°	837.9	834.3	910.9	1026.0	1314.4	1770.8	4008.9	7919.2	10803.5	10737.8	7042.9
70°	620.7	622.5	660.8	688.2	768.6	980.3	2895.3	6869.5	9956.5	9952.8	6241.5
72.5°	460.0	465.5	494.7	500.2	480.1	531.2	1668.5	5463.8	7964.8	7966.6	4666.1
75°	345.0	354.2	363.3	366.9	348.7	335.9	753.9	3676.6	5239.3	5200.9	2641.5
77.5°	262.9	266.5	273.8	268.4	264.7	231.8	314.0	1792.7	2586.8	2356.8	856.2
80°	191.7	191.7	199.0	191.7	189.9	166.1	171.6	575.0	759.4	631.6	184.4
82.5°	120.5	118.7	124.1	122.3	118.7	105.9	100.4	160.6	175.3	157.0	89.5
85°	67.5	65.7	63.9	62.1	56.6	47.5	54.8	60.2	80.3	82.1	63.9
87.5°	23.7	23.7	21.9	20.1	16.4	16.4	20.1	20.1	29.2	29.2	32.9
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°	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9	1109.9
2.5°	1117.2	1097.1	1067.9	1029.6	1002.2	974.8	945.6	929.2	905.5	900.0	907.3
5°	1137.3	1100.8	1027.8	947.5	878.1	816.0	757.6	722.9	688.2	675.4	680.9
7.5°	1179.3	1117.2	993.1	863.5	748.5	655.4	586.0	545.8	514.8	502.0	505.7
10°	1241.4	1146.4	960.2	768.6	620.7	522.1	463.7	438.1	419.9	412.6	414.4
12.5°	1316.2	1188.4	918.2	673.6	511.1	425.3	398.0	392.5	388.8	385.2	387.0
15°	1400.2	1224.9	869.0	580.5	425.3	377.9	368.8	366.9	365.1	365.1	365.1
17.5°	1487.8	1257.8	814.2	492.9	370.6	348.7	343.2	343.2	343.2	345.0	345.0
20°	1570.0	1283.4	750.3	414.4	339.5	321.3	317.6	317.6	319.5	321.3	321.3
22.5°	1650.3	1294.3	675.4	359.6	314.0	297.6	292.1	292.1	292.1	293.9	293.9
25°	1719.7	1294.3	600.6	324.9	292.1	275.7	268.4	266.5	268.4	268.4	268.4
27.5°	1778.1	1288.8	527.6	301.2	270.2	253.7	246.4	244.6	248.3	250.1	250.1
30°	1840.1	1281.5	469.2	279.3	251.9	235.5	228.2	228.2	233.7	241.0	241.0
32.5°	1900.4	1287.0	423.5	261.1	233.7	220.9	213.6	215.4	226.4	237.3	237.3
35°	1964.3	1298.0	396.1	248.3	220.9	208.1	202.6	208.1	219.1	230.0	230.0
37.5°	2028.2	1310.7	379.7	237.3	209.9	197.2	193.5	200.8	213.6	224.5	226.4
40°	2095.7	1321.7	361.5	226.4	202.6	188.0	186.2	193.5	209.9	220.9	222.7
42.5°	2179.7	1343.6	339.5	217.2	195.3	177.1	178.9	184.4	200.8	217.2	219.1
45°	2344.0	1413.0	317.6	208.1	186.2	171.6	167.9	171.6	189.9	208.1	211.8
47.5°	2652.5	1570.0	293.9	199.0	177.1	167.9	153.3	157.0	173.4	193.5	195.3
50°	3244.0	1904.0	281.1	189.9	169.8	155.2	138.7	138.7	151.5	169.8	169.8
52.5°	4165.9	2502.8	288.4	182.6	160.6	142.4	126.0	124.1	131.4	144.2	144.2
55°	5160.8	3160.0	315.8	175.3	149.7	135.1	116.8	107.7	113.2	120.5	120.5
57.5°	5949.4	3490.4	390.7	171.6	136.9	129.6	105.9	93.1	98.6	105.9	105.9
60°	6296.3	3296.9	474.6	175.3	127.8	120.5	94.9	82.1	91.3	98.6	100.4
62.5°	6015.1	2714.6	509.3	166.1	115.0	107.7	93.1	76.7	87.6	93.1	94.9
65°	5407.2	2062.9	398.0	144.2	105.9	93.1	84.0	73.0	82.1	87.6	87.6
66°	5118.8	1798.2	339.5	133.3	102.2	87.6	80.3	73.0	80.3	84.0	85.8
67.5°	4671.5	1418.4	251.9	116.8	94.9	80.3	74.8	69.4	76.7	80.3	80.3
70°	3652.9	845.2	151.5	91.3	82.1	71.2	67.5	63.9	69.4	71.2	71.2
72.5°	2287.4	401.6	96.8	67.5	69.4	67.5	56.6	60.2	62.1	63.9	63.9
75°	1108.1	158.8	65.7	49.3	56.6	63.9	45.6	52.9	54.8	58.4	56.6
77.5°	308.5	76.7	42.0	36.5	49.3	49.3	34.7	42.0	49.3	62.1	56.6
80°	89.5	49.3	27.4	27.4	34.7	34.7	23.7	29.2	32.9	36.5	38.3
82.5°	62.1	32.9	18.3	20.1	20.1	21.9	14.6	14.6	18.3	18.3	20.1
85°	49.3	14.6	11.0	12.8	9.1	11.0	7.3	7.3	9.1	7.3	7.3
87.5°	20.1	7.3	7.3	7.3	5.5	5.5	3.7	1.8	1.8	1.8	1.8
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)