

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: P1210878

Luminaire Tested: **ARCH4-100-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210878
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: ARCH4-100-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 845mA 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: 12073 lumens
Efficiency: N/A
Efficacy: 117.1 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): 103.1
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

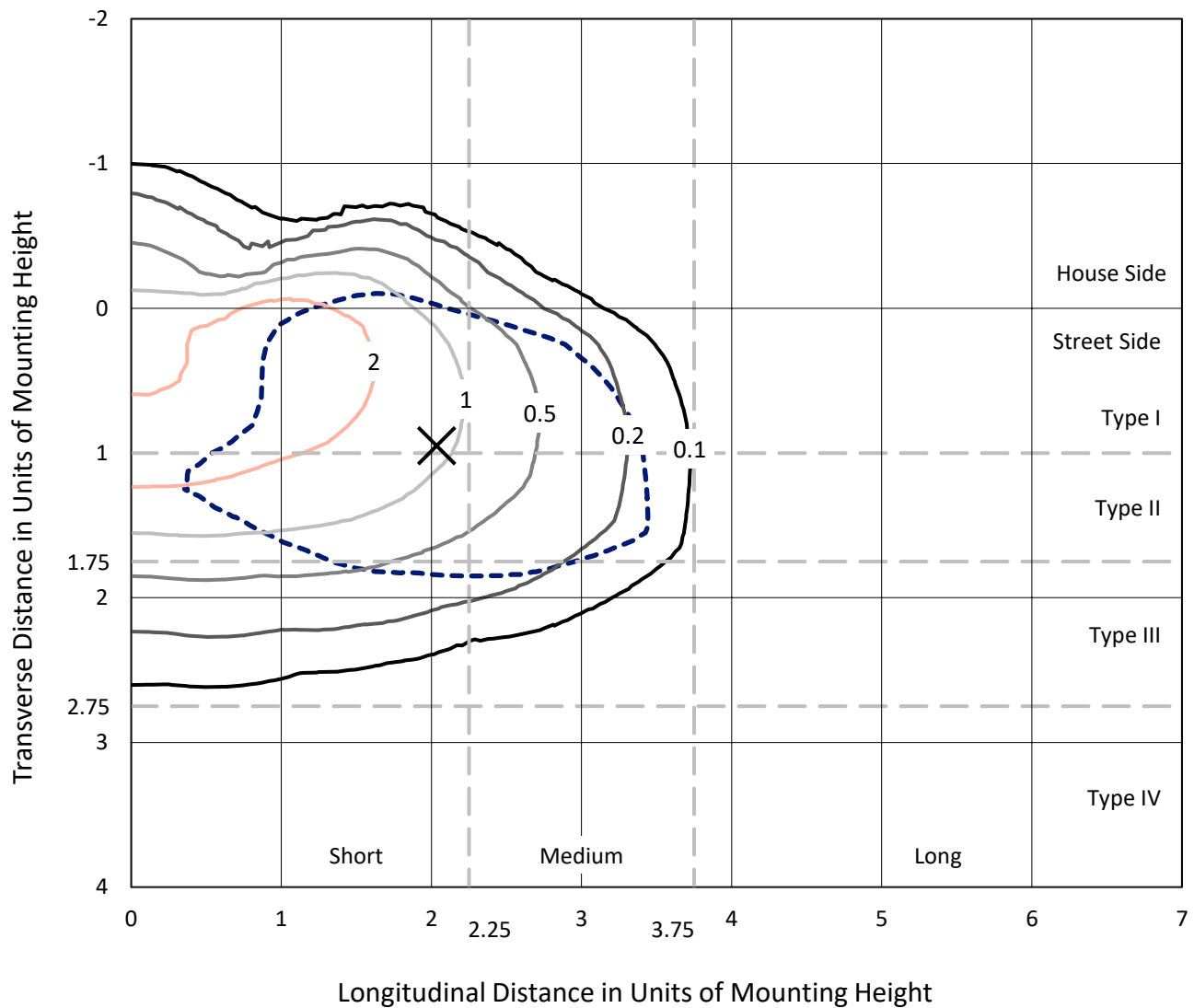


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Iso-Footcandle Lines of Horizontal Illumination

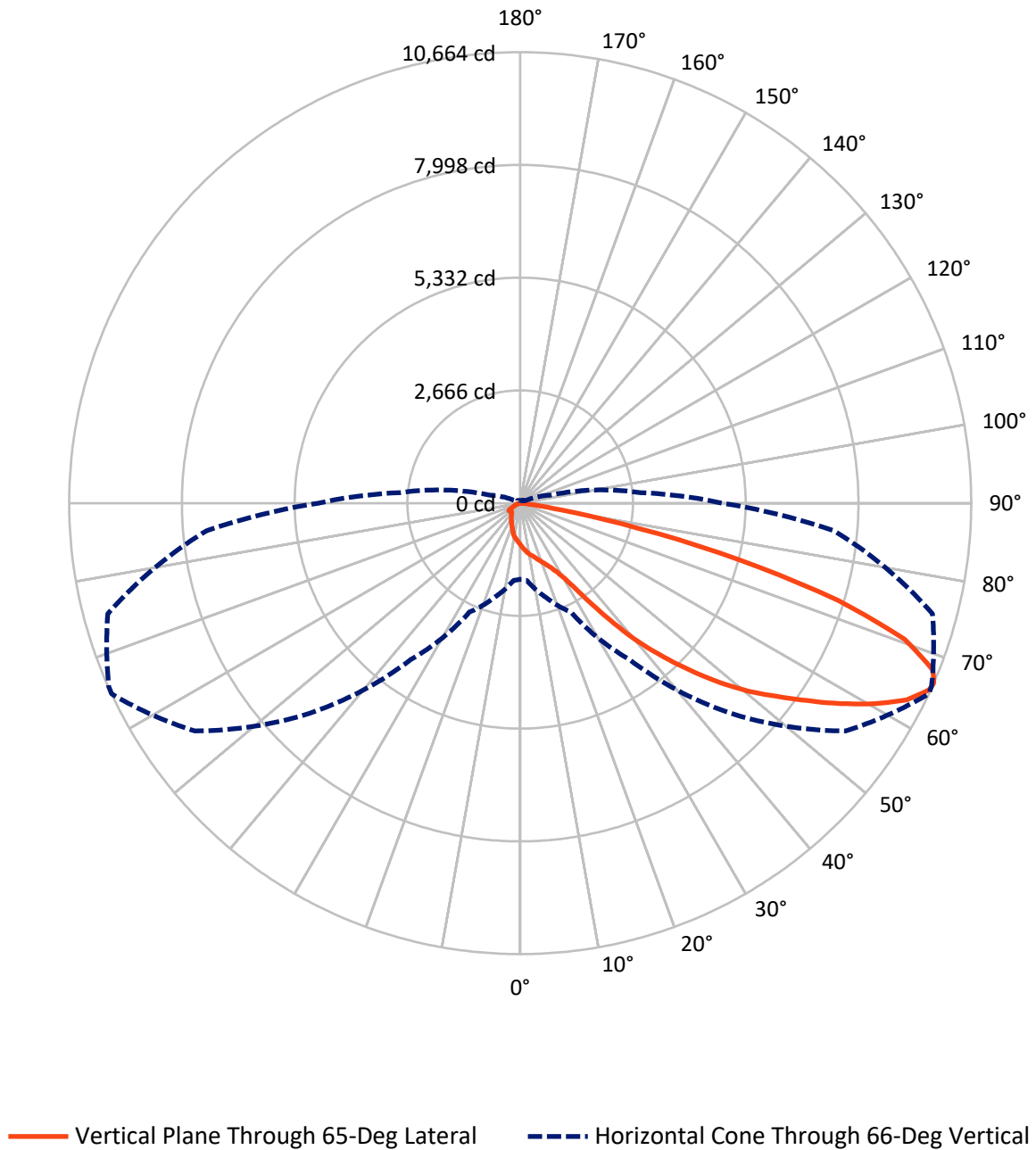
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1424.9	0.0	1424.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	10648.1	0.0	10648.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	12073.0	0.0	12073.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	0.8
10°-20°	276.0	2.3
20°-30°	505.3	4.2
30°-40°	1026.6	8.5
40°-50°	2168.0	18.0
50°-60°	3332.9	27.6
60°-70°	3354.8	27.8
70°-80°	1253.5	10.4
80°-90°	62.6	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°	12073.0	100.0
0°-180°	12073.0	100.0

Coefficient of Utilization



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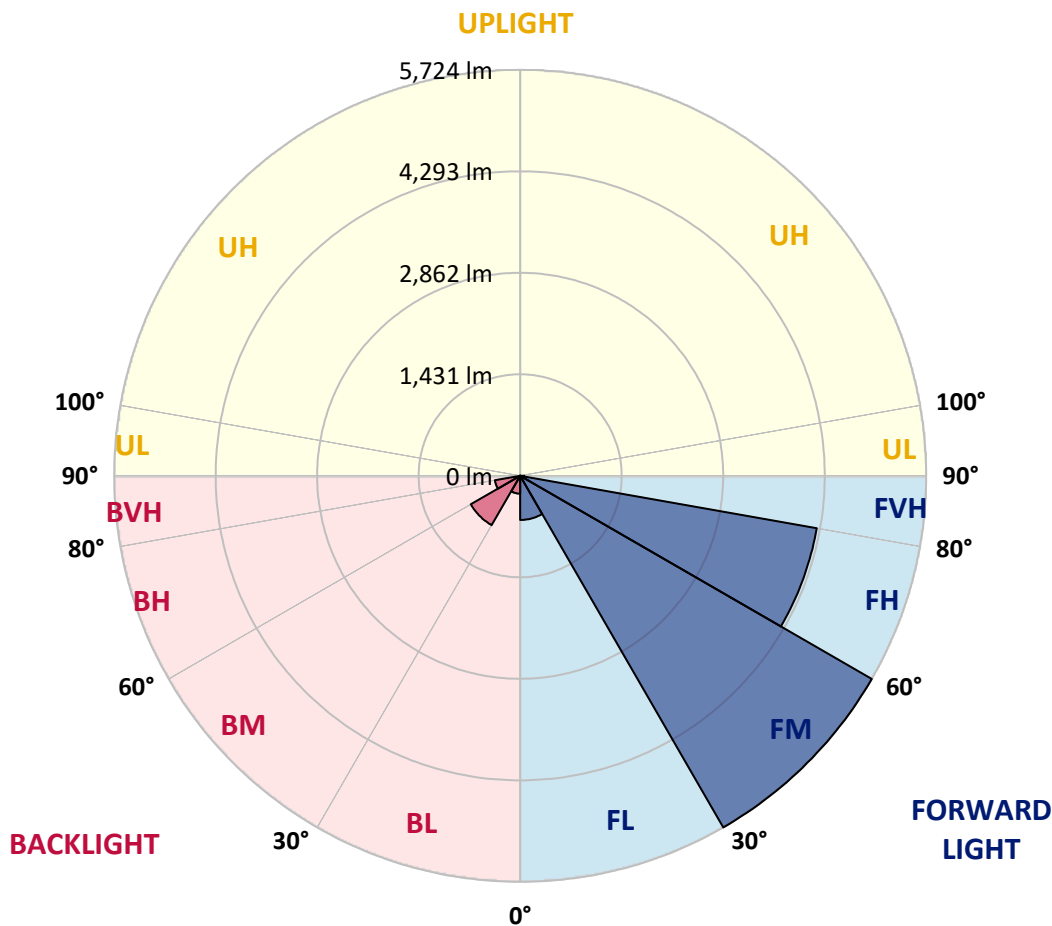
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	622.3	5.2			
FM	(30°-60°)	5724.2	47.4			
FH	(60°-80°)	4246.4	35.2			G2/5000
FVH	(80°-90°)	55.3	0.5			G1/100
BL	(0°-30°)	252.2	2.1	B1/500		
BM	(30°-60°)	803.4	6.7	B1/1000		
BH	(60°-80°)	362.0	3.0	B1/500		G1/500
BVH	(80°-90°)	7.4	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°	983.6	983.6	983.6	983.6	983.6	983.6	983.6	983.6	983.6	983.6	983.6
2.5°	1121.6	1123.8	1119.4	1110.7	1101.9	1091.0	1073.4	1044.9	1040.6	1020.9	998.9
5°	1198.3	1202.7	1196.1	1193.9	1189.5	1174.2	1150.1	1108.5	1104.1	1064.7	1014.3
7.5°	1224.6	1231.2	1226.8	1226.8	1226.8	1220.2	1209.2	1172.0	1165.4	1115.0	1038.4
10°	1244.3	1248.7	1246.5	1255.3	1261.8	1257.4	1250.9	1229.0	1222.4	1172.0	1071.2
12.5°	1275.0	1277.2	1279.3	1283.7	1294.7	1299.1	1296.9	1277.2	1272.8	1237.7	1112.9
15°	1303.4	1303.4	1305.6	1325.4	1340.7	1349.5	1351.6	1336.3	1331.9	1303.4	1165.4
17.5°	1329.7	1331.9	1338.5	1360.4	1386.7	1404.2	1415.2	1408.6	1402.0	1380.1	1226.8
20°	1369.2	1373.5	1380.1	1410.8	1437.1	1465.6	1487.5	1485.3	1483.1	1467.7	1299.1
22.5°	1437.1	1441.5	1452.4	1480.9	1507.2	1542.2	1579.5	1577.3	1570.7	1559.8	1384.5
25°	1540.0	1540.0	1546.6	1570.7	1603.6	1645.2	1680.2	1686.8	1680.2	1673.7	1491.8
27.5°	1669.3	1671.5	1671.5	1697.8	1728.4	1781.0	1824.8	1831.4	1831.4	1824.8	1636.4
30°	1848.9	1842.4	1838.0	1859.9	1892.7	1969.4	2046.1	2059.2	2052.7	2063.6	1840.2
32.5°	2157.8	2146.9	2109.6	2114.0	2133.7	2238.9	2368.1	2414.1	2411.9	2431.6	2168.8
35°	2585.0	2563.1	2508.3	2462.3	2460.1	2574.0	2771.2	2944.3	2942.1	3010.0	2668.2
37.5°	3066.9	3095.4	2992.5	2913.6	2889.5	2979.3	3233.4	3608.0	3627.7	3746.0	3323.2
40°	3711.0	3728.5	3597.1	3485.4	3371.4	3404.3	3739.5	4322.2	4357.2	4488.7	3978.3
42.5°	4271.8	4289.3	4212.7	4076.8	3932.2	3870.9	4249.9	4970.6	4999.1	5180.9	4653.0
45°	4653.0	4666.1	4692.4	4705.6	4541.3	4414.2	4874.2	5636.6	5671.6	5881.9	5312.4
47.5°	4950.9	4961.9	5014.4	5145.9	5113.0	5012.2	5509.5	6328.8	6337.6	6572.0	5954.2
50°	5088.9	5115.2	5244.5	5446.0	5590.6	5619.1	6199.6	6983.8	7007.9	7231.4	6561.0
52.5°	4935.6	4944.3	5270.7	5649.7	5941.1	6230.3	6891.8	7590.7	7660.8	7827.3	7106.5
55°	4418.6	4482.1	4977.2	5643.2	6217.1	6810.8	7632.3	8245.7	8309.2	8414.4	7586.3
57.5°	3818.3	3888.4	4490.9	5360.6	6335.4	7347.5	8318.0	8942.3	8986.1	9014.6	8026.6
60°	3299.1	3364.9	3984.8	4819.5	6217.1	7726.5	8955.4	9634.6	9671.8	9595.1	8247.9
62.5°	2661.7	2727.4	3351.7	4103.1	5752.7	7803.2	9428.6	10250.1	10265.5	10057.4	8112.0
65°	2006.7	2050.5	2571.8	3215.9	4940.0	7395.7	9536.0	10633.5	10618.2	10191.0	7704.6
66°	1798.5	1835.8	2295.8	2843.5	4517.2	7023.3	9391.4	10664.2	10648.8	10092.4	7437.3
67.5°	1551.0	1561.9	1940.9	2326.5	3778.9	6232.4	8951.1	10524.0	10537.1	9820.8	6948.8
70°	1211.4	1209.2	1428.3	1618.9	2580.6	4433.9	7465.8	9641.1	9704.7	8795.5	5925.8
72.5°	775.5	749.2	876.3	990.2	1502.8	2574.0	5443.8	7857.9	7965.3	6909.4	4414.2
75°	462.2	435.9	466.6	495.1	720.7	1237.7	3200.6	5347.4	5450.4	4429.5	2626.6
77.5°	346.1	335.2	337.4	313.3	319.8	464.4	1461.2	2826.0	2900.4	1813.9	996.8
80°	265.1	236.6	221.3	232.2	210.3	184.0	543.3	972.7	1018.7	429.4	208.1
82.5°	177.4	153.3	142.4	155.5	133.6	103.0	131.4	188.4	184.0	116.1	81.1
85°	92.0	78.9	78.9	78.9	67.9	50.4	57.0	76.7	76.7	61.3	48.2
87.5°	26.3	24.1	28.5	26.3	19.7	19.7	21.9	26.3	26.3	24.1	21.9
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°	983.6	983.6	983.6	983.6	983.6	983.6	983.6	983.6	983.6	983.6	983.6
2.5°	981.4	972.7	948.6	931.0	913.5	898.2	880.6	876.3	867.5	869.7	865.3
5°	988.0	963.9	922.3	882.8	852.2	825.9	793.0	779.9	762.4	755.8	751.4
7.5°	996.8	961.7	900.4	845.6	793.0	740.4	687.9	657.2	637.5	628.7	622.1
10°	1016.5	970.5	889.4	804.0	714.2	639.7	587.1	565.2	552.0	549.9	547.7
12.5°	1042.8	983.6	878.5	751.4	633.1	563.0	530.1	523.6	521.4	521.4	519.2
15°	1082.2	1005.5	860.9	690.1	569.6	521.4	506.0	495.1	490.7	490.7	490.7
17.5°	1121.6	1031.8	834.6	626.5	525.8	495.1	479.8	473.2	468.8	471.0	468.8
20°	1172.0	1062.5	799.6	571.8	497.3	473.2	457.8	451.3	449.1	449.1	449.1
22.5°	1229.0	1097.5	755.8	530.1	473.2	451.3	435.9	429.4	425.0	427.2	427.2
25°	1305.6	1141.3	709.8	488.5	449.1	429.4	411.8	403.1	403.1	405.3	407.5
27.5°	1404.2	1193.9	663.8	462.2	427.2	407.5	387.7	379.0	381.2	385.6	385.6
30°	1548.8	1266.2	617.8	433.8	403.1	381.2	363.7	354.9	359.3	368.0	368.0
32.5°	1754.7	1384.5	578.3	400.9	368.0	343.9	326.4	319.8	330.8	348.3	348.3
35°	2122.8	1601.4	554.2	368.0	330.8	302.3	280.4	273.8	289.2	311.1	311.1
37.5°	2615.7	1949.7	563.0	339.6	300.1	267.3	243.2	234.4	245.4	265.1	271.6
40°	3165.5	2370.3	639.7	315.5	271.6	238.8	214.7	205.9	212.5	221.3	223.4
42.5°	3715.4	2817.2	784.3	297.9	249.7	214.7	192.8	186.2	190.6	192.8	195.0
45°	4263.0	3259.7	966.1	287.0	230.0	195.0	173.1	173.1	175.3	175.3	175.3
47.5°	4782.2	3691.3	1156.7	284.8	212.5	175.3	157.7	159.9	159.9	162.1	162.1
50°	5272.9	4076.8	1349.5	291.4	197.2	157.7	144.6	144.6	144.6	146.8	144.6
52.5°	5682.6	4414.2	1551.0	302.3	181.8	144.6	131.4	131.4	131.4	133.6	131.4
55°	6070.3	4720.9	1756.9	317.6	168.7	133.6	120.5	116.1	116.1	118.3	116.1
57.5°	6385.8	4924.6	1951.9	319.8	157.7	122.7	111.7	105.2	105.2	105.2	105.2
60°	6398.9	4806.3	2008.8	280.4	144.6	111.7	100.8	92.0	94.2	94.2	94.2
62.5°	5980.5	4184.2	1614.5	210.3	129.2	100.8	92.0	83.2	83.2	83.2	83.2
65°	5159.0	3255.3	946.4	166.5	111.7	89.8	81.1	74.5	74.5	74.5	72.3
66°	4773.5	2854.4	725.1	151.2	105.2	87.6	78.9	72.3	70.1	67.9	67.9
67.5°	4144.7	2256.4	453.5	133.6	96.4	81.1	72.3	65.7	63.5	61.3	61.3
70°	3121.7	1432.7	221.3	103.0	83.2	70.1	63.5	57.0	54.8	52.6	50.4
72.5°	2190.7	839.0	116.1	78.9	67.9	61.3	54.8	48.2	46.0	43.8	43.8
75°	1237.7	405.3	76.7	57.0	54.8	50.4	46.0	39.4	37.2	37.2	37.2
77.5°	468.8	140.2	52.6	41.6	43.8	39.4	32.9	32.9	30.7	32.9	30.7
80°	122.7	61.3	32.9	30.7	32.9	28.5	24.1	26.3	26.3	26.3	26.3
82.5°	65.7	35.1	19.7	21.9	19.7	19.7	15.3	17.5	19.7	17.5	19.7
85°	46.0	17.5	11.0	11.0	8.8	8.8	6.6	8.8	11.0	8.8	8.8
87.5°	24.1	6.6	6.6	6.6	6.6	4.4	2.2	0.0	2.2	2.2	2.2
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)