

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: P1210398

Luminaire Tested: **ARCH3-110-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210398
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: ARCH3-110-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11709 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

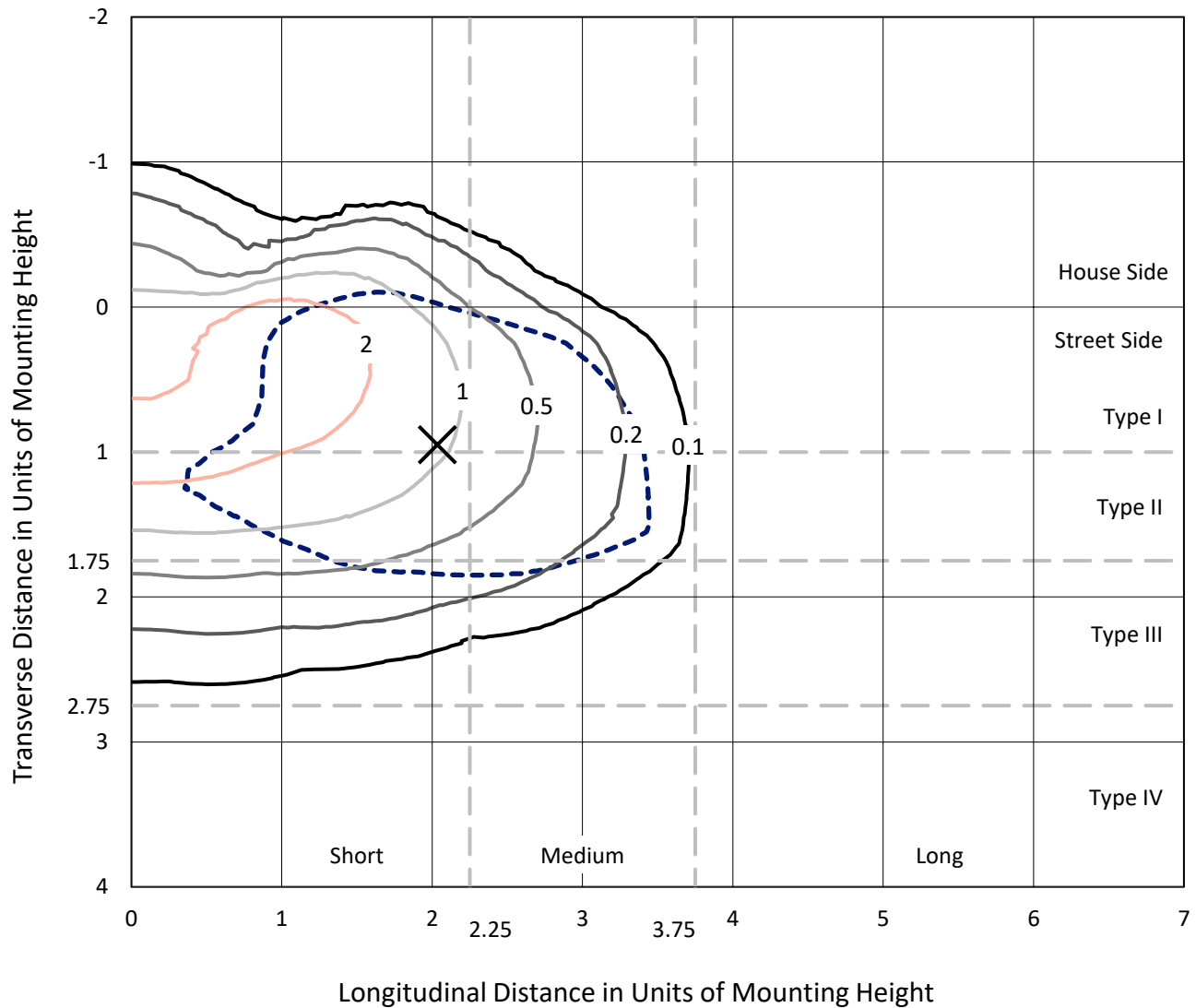
Input Watts (W): 111.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P1210398
 CATALOG NUMBER: ARCH3-110-730-U-T3RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

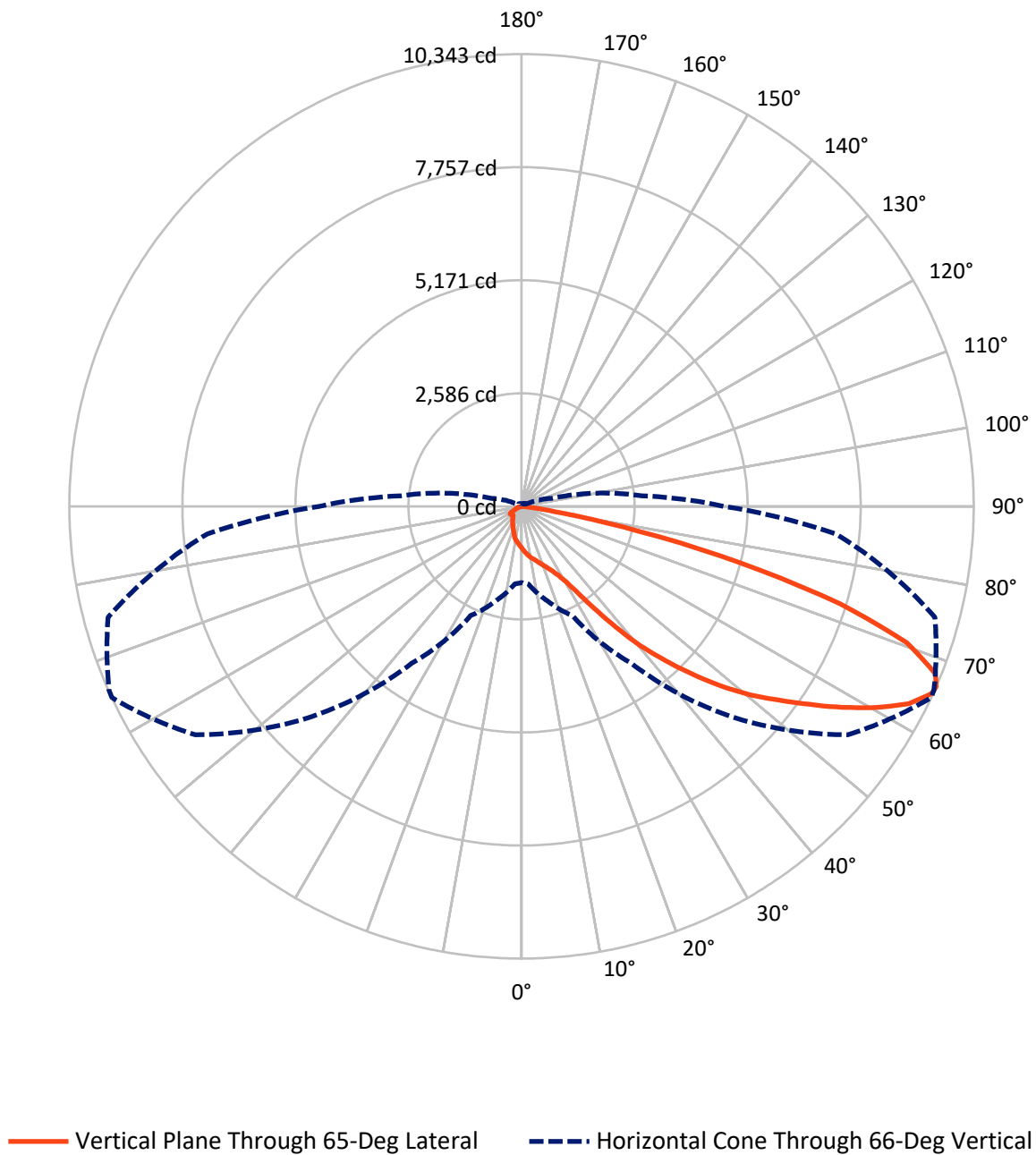


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Short - N/A

REPORT NUMBER: P1210398

CATALOG NUMBER: ARCH3-110-730-U-T3RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1210398

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1381.9	0.0	1381.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	10327.1	0.0	10327.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	11709.0	0.0	11709.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	0.8
10°-20°	267.7	2.3
20°-30°	490.0	4.2
30°-40°	995.7	8.5
40°-50°	2102.6	18.0
50°-60°	3232.4	27.6
60°-70°	3253.6	27.8
70°-80°	1215.7	10.4
80°-90°	60.7	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°	11709.0	100.0
0°-180°	11709.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210398

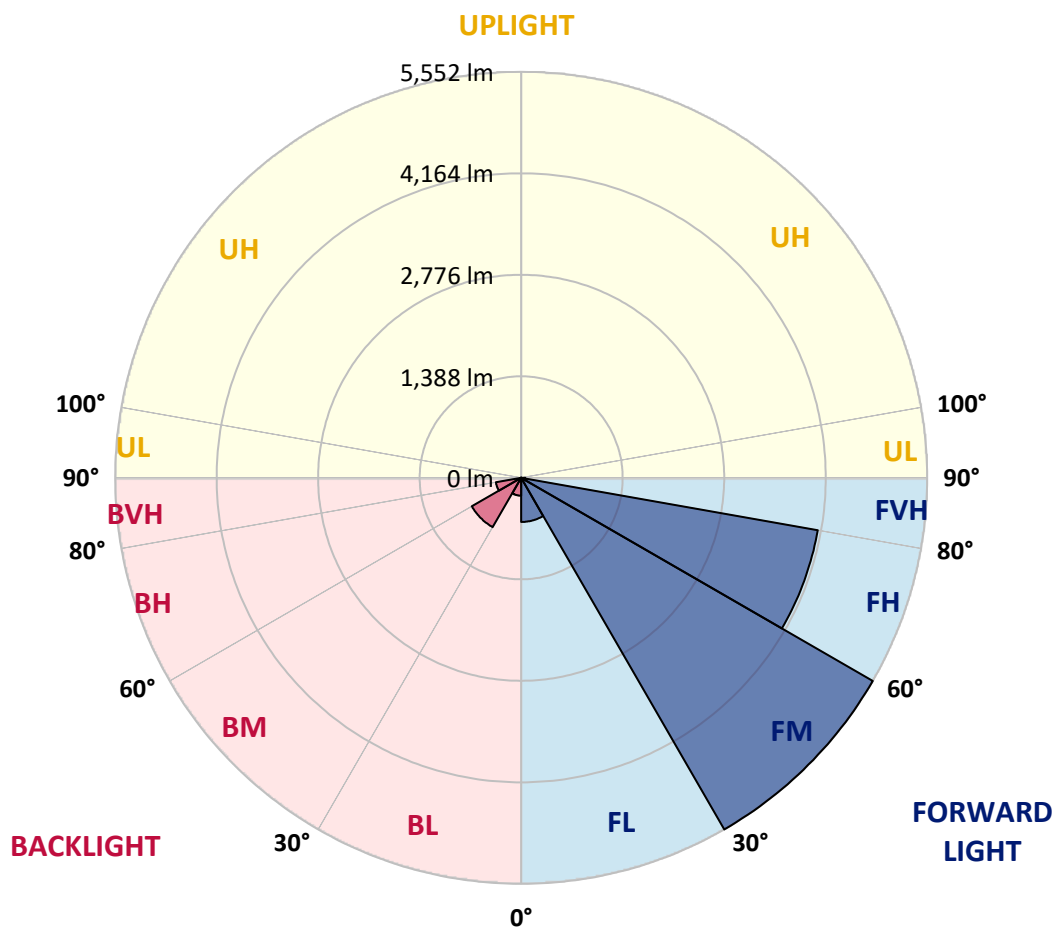
CATALOG NUMBER: ARCH3-110-730-U-T3RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	603.6	5.2			
FM	(30°-60°)	5551.6	47.4			
FH	(60°-80°)	4118.3	35.2			G2/5000
FVH	(80°-90°)	53.6	0.5			G1/100
BL	(0°-30°)	244.6	2.1	B1/500		
BM	(30°-60°)	779.1	6.7	B1/1000		
BH	(60°-80°)	351.0	3.0	B1/500		G1/500
BVH	(80°-90°)	7.1	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



REPORT NUMBER: P1210398

CATALOG NUMBER: ARCH3-110-730-U-T3RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0
2.5°	1087.8	1089.9	1085.7	1077.2	1068.7	1058.1	1041.1	1013.4	1009.2	990.1	968.8
5°	1162.2	1166.4	1160.0	1157.9	1153.7	1138.8	1115.4	1075.1	1070.8	1032.6	983.7
7.5°	1187.7	1194.0	1189.8	1189.8	1189.8	1183.4	1172.8	1136.7	1130.3	1081.4	1007.1
10°	1206.8	1211.0	1208.9	1217.4	1223.8	1219.5	1213.2	1191.9	1185.5	1136.7	1038.9
12.5°	1236.5	1238.7	1240.8	1245.0	1255.6	1259.9	1257.8	1238.7	1234.4	1200.4	1079.3
15°	1264.1	1264.1	1266.3	1285.4	1300.3	1308.8	1310.9	1296.0	1291.8	1264.1	1130.3
17.5°	1289.6	1291.8	1298.1	1319.4	1344.9	1361.9	1372.5	1366.1	1359.8	1338.5	1189.8
20°	1327.9	1332.1	1338.5	1368.3	1393.8	1421.4	1442.6	1440.5	1438.4	1423.5	1259.9
22.5°	1393.8	1398.0	1408.6	1436.2	1461.7	1495.7	1531.9	1529.7	1523.4	1512.7	1342.8
25°	1493.6	1493.6	1500.0	1523.4	1555.2	1595.6	1629.6	1636.0	1629.6	1623.2	1446.9
27.5°	1619.0	1621.1	1621.1	1646.6	1676.3	1727.3	1769.8	1776.2	1776.2	1769.8	1587.1
30°	1793.2	1786.8	1782.6	1803.8	1835.7	1910.0	1984.4	1997.1	1990.8	2001.4	1784.7
32.5°	2092.7	2082.1	2046.0	2050.3	2069.4	2171.4	2296.7	2341.3	2339.2	2358.3	2103.4
35°	2507.1	2485.8	2432.7	2388.1	2385.9	2496.4	2687.6	2855.5	2853.4	2919.2	2587.8
37.5°	2974.5	3002.1	2902.2	2825.7	2802.4	2889.5	3135.9	3499.2	3518.4	3633.1	3223.0
40°	3599.1	3616.1	3488.6	3380.3	3269.8	3301.7	3626.7	4191.9	4225.9	4353.3	3858.3
42.5°	4143.0	4160.0	4085.6	3953.9	3813.7	3754.2	4121.8	4820.8	4848.4	5024.7	4512.7
45°	4512.7	4525.4	4550.9	4563.7	4404.3	4281.1	4727.3	5466.6	5500.6	5704.6	5152.2
47.5°	4801.6	4812.3	4863.3	4990.7	4958.9	4861.1	5343.4	6138.0	6146.5	6373.9	5774.7
50°	4935.5	4961.0	5086.3	5281.8	5422.0	5449.6	6012.7	6773.3	6796.7	7013.4	6363.2
52.5°	4786.8	4795.3	5111.8	5479.4	5762.0	6042.4	6684.1	7361.8	7429.8	7591.3	6892.3
55°	4285.4	4347.0	4827.1	5473.0	6029.7	6605.4	7402.2	7997.1	8058.7	8160.7	7357.6
57.5°	3703.2	3771.2	4355.5	5198.9	6144.4	7126.0	8067.2	8672.7	8715.2	8742.8	7784.6
60°	3199.7	3263.4	3864.7	4674.2	6029.7	7493.5	8685.4	9344.1	9380.2	9305.8	7999.2
62.5°	2581.4	2645.2	3250.7	3979.4	5579.3	7567.9	9144.4	9941.1	9956.0	9754.1	7867.5
65°	1946.2	1988.6	2494.3	3118.9	4791.0	7172.7	9248.5	10312.9	10298.0	9883.7	7472.3
66°	1744.3	1780.4	2226.6	2757.8	4381.0	6811.5	9108.2	10342.6	10327.8	9788.1	7213.1
67.5°	1504.2	1514.9	1882.4	2256.3	3665.0	6044.5	8681.2	10206.7	10219.4	9524.7	6739.3
70°	1174.9	1172.8	1385.3	1570.1	2502.8	4300.2	7240.7	9350.4	9412.1	8530.3	5747.1
72.5°	752.1	726.6	849.8	960.3	1457.5	2496.4	5279.7	7621.0	7725.1	6701.0	4281.1
75°	448.3	422.8	452.5	480.2	699.0	1200.4	3104.1	5186.2	5286.1	4296.0	2547.4
77.5°	335.7	325.1	327.2	303.8	310.2	450.4	1417.1	2740.8	2813.0	1759.2	966.7
80°	257.1	229.5	214.6	225.2	204.0	178.5	526.9	943.3	987.9	416.4	201.8
82.5°	172.1	148.7	138.1	150.8	129.6	99.9	127.5	182.7	178.5	112.6	78.6
85°	89.2	76.5	76.5	76.5	65.9	48.9	55.2	74.4	74.4	59.5	46.7
87.5°	25.5	23.4	27.6	25.5	19.1	19.1	21.2	25.5	25.5	23.4	21.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1210398

CATALOG NUMBER: ARCH3-110-730-U-T3RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0
2.5°	951.8	943.3	920.0	903.0	886.0	871.1	854.1	849.8	841.3	843.5	839.2
5°	958.2	934.8	894.5	856.2	826.5	801.0	769.1	756.4	739.4	733.0	728.7
7.5°	966.7	932.7	873.2	820.1	769.1	718.1	667.1	637.4	618.3	609.8	603.4
10°	985.8	941.2	862.6	779.7	692.6	620.4	569.4	548.2	535.4	533.3	531.2
12.5°	1011.3	954.0	852.0	728.7	614.0	546.0	514.2	507.8	505.7	505.7	503.5
15°	1049.6	975.2	835.0	669.3	552.4	505.7	490.8	480.2	475.9	475.9	475.9
17.5°	1087.8	1000.7	809.5	607.6	509.9	480.2	465.3	458.9	454.7	456.8	454.7
20°	1136.7	1030.4	775.5	554.5	482.3	458.9	444.0	437.7	435.5	435.5	435.5
22.5°	1191.9	1064.4	733.0	514.2	458.9	437.7	422.8	416.4	412.2	414.3	414.3
25°	1266.3	1106.9	688.4	473.8	435.5	416.4	399.4	390.9	390.9	393.1	395.2
27.5°	1361.9	1157.9	643.8	448.3	414.3	395.2	376.1	367.6	369.7	373.9	373.9
30°	1502.1	1228.0	599.1	420.7	390.9	369.7	352.7	344.2	348.4	356.9	356.9
32.5°	1701.8	1342.8	560.9	388.8	356.9	333.6	316.6	310.2	320.8	337.8	337.8
35°	2058.8	1553.1	537.5	356.9	320.8	293.2	272.0	265.6	280.4	301.7	301.7
37.5°	2536.8	1890.9	546.0	329.3	291.1	259.2	235.8	227.3	238.0	257.1	263.5
40°	3070.1	2298.8	620.4	305.9	263.5	231.6	208.2	199.7	206.1	214.6	216.7
42.5°	3603.4	2732.3	760.6	288.9	242.2	208.2	187.0	180.6	184.8	187.0	189.1
45°	4134.5	3161.4	937.0	278.3	223.1	189.1	167.8	167.8	170.0	170.0	170.0
47.5°	4638.0	3580.0	1121.8	276.2	206.1	170.0	153.0	155.1	155.1	157.2	157.2
50°	5114.0	3953.9	1308.8	282.6	191.2	153.0	140.2	140.2	140.2	142.3	140.2
52.5°	5511.3	4281.1	1504.2	293.2	176.3	140.2	127.5	127.5	127.5	129.6	127.5
55°	5887.3	4578.6	1703.9	308.1	163.6	129.6	116.9	112.6	112.6	114.7	112.6
57.5°	6193.3	4776.1	1893.0	310.2	153.0	119.0	108.4	102.0	102.0	102.0	102.0
60°	6206.0	4661.4	1948.3	272.0	140.2	108.4	97.7	89.2	91.4	91.4	91.4
62.5°	5800.2	4058.0	1565.8	204.0	125.4	97.7	89.2	80.7	80.7	80.7	80.7
65°	5003.5	3157.2	917.8	161.5	108.4	87.1	78.6	72.2	72.2	72.2	70.1
66°	4629.5	2768.4	703.2	146.6	102.0	85.0	76.5	70.1	68.0	65.9	65.9
67.5°	4019.8	2188.4	439.8	129.6	93.5	78.6	70.1	63.7	61.6	59.5	59.5
70°	3027.6	1389.5	214.6	99.9	80.7	68.0	61.6	55.2	53.1	51.0	48.9
72.5°	2124.6	813.7	112.6	76.5	65.9	59.5	53.1	46.7	44.6	42.5	42.5
75°	1200.4	393.1	74.4	55.2	53.1	48.9	44.6	38.2	36.1	36.1	36.1
77.5°	454.7	136.0	51.0	40.4	42.5	38.2	31.9	31.9	29.7	31.9	29.7
80°	119.0	59.5	31.9	29.7	31.9	27.6	23.4	25.5	25.5	25.5	25.5
82.5°	63.7	34.0	19.1	21.2	19.1	19.1	14.9	17.0	19.1	17.0	19.1
85°	44.6	17.0	10.6	10.6	8.5	8.5	6.4	8.5	10.6	8.5	8.5
87.5°	23.4	6.4	6.4	6.4	6.4	4.2	2.1	0.0	2.1	2.1	2.1
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)