

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: P1211722

Luminaire Tested: **ARCH4-90-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211722
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: ARCH4-90-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 765mA 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: 11557 lumens
Efficiency: N/A
Efficacy: 124.1 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): 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



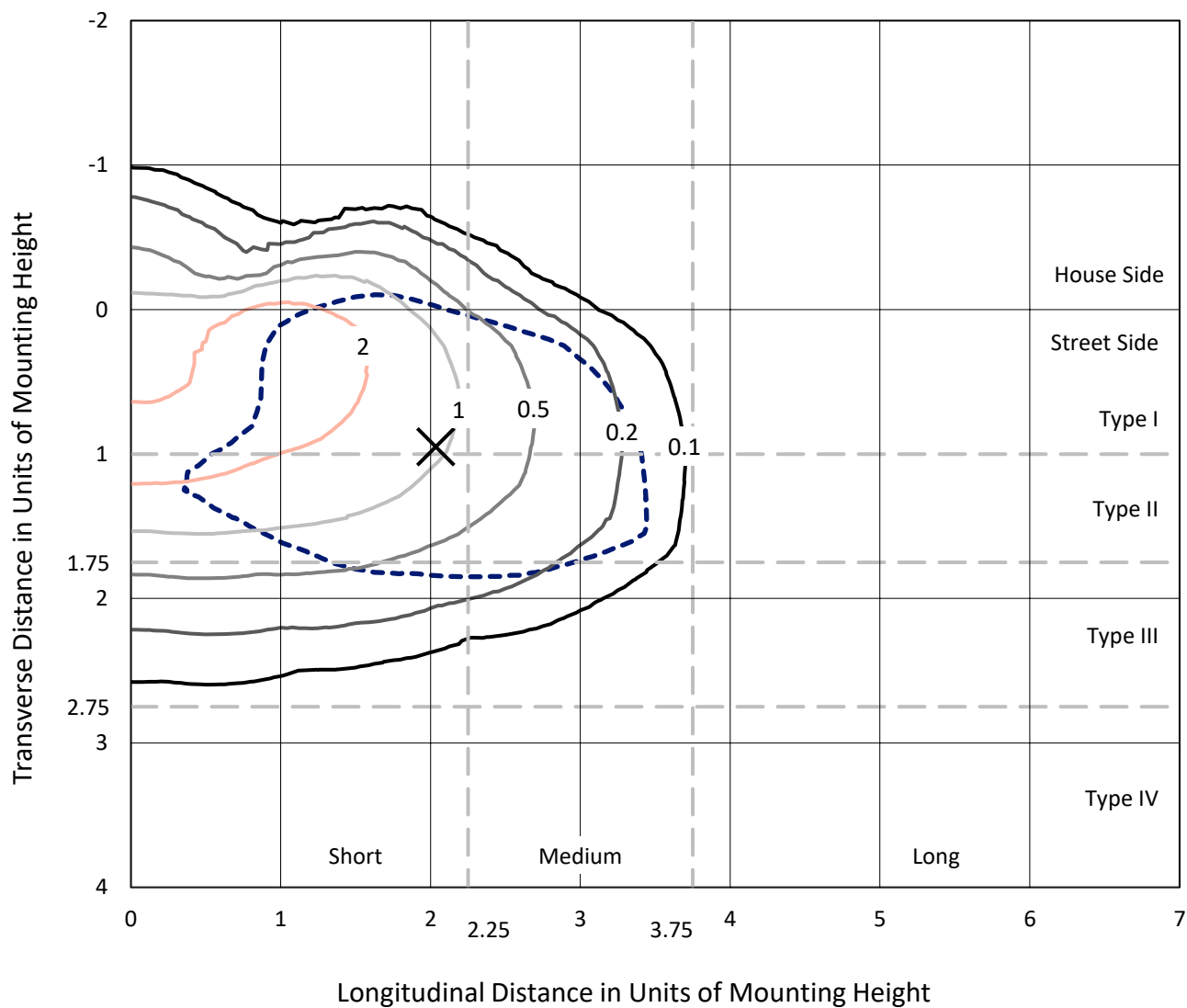
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

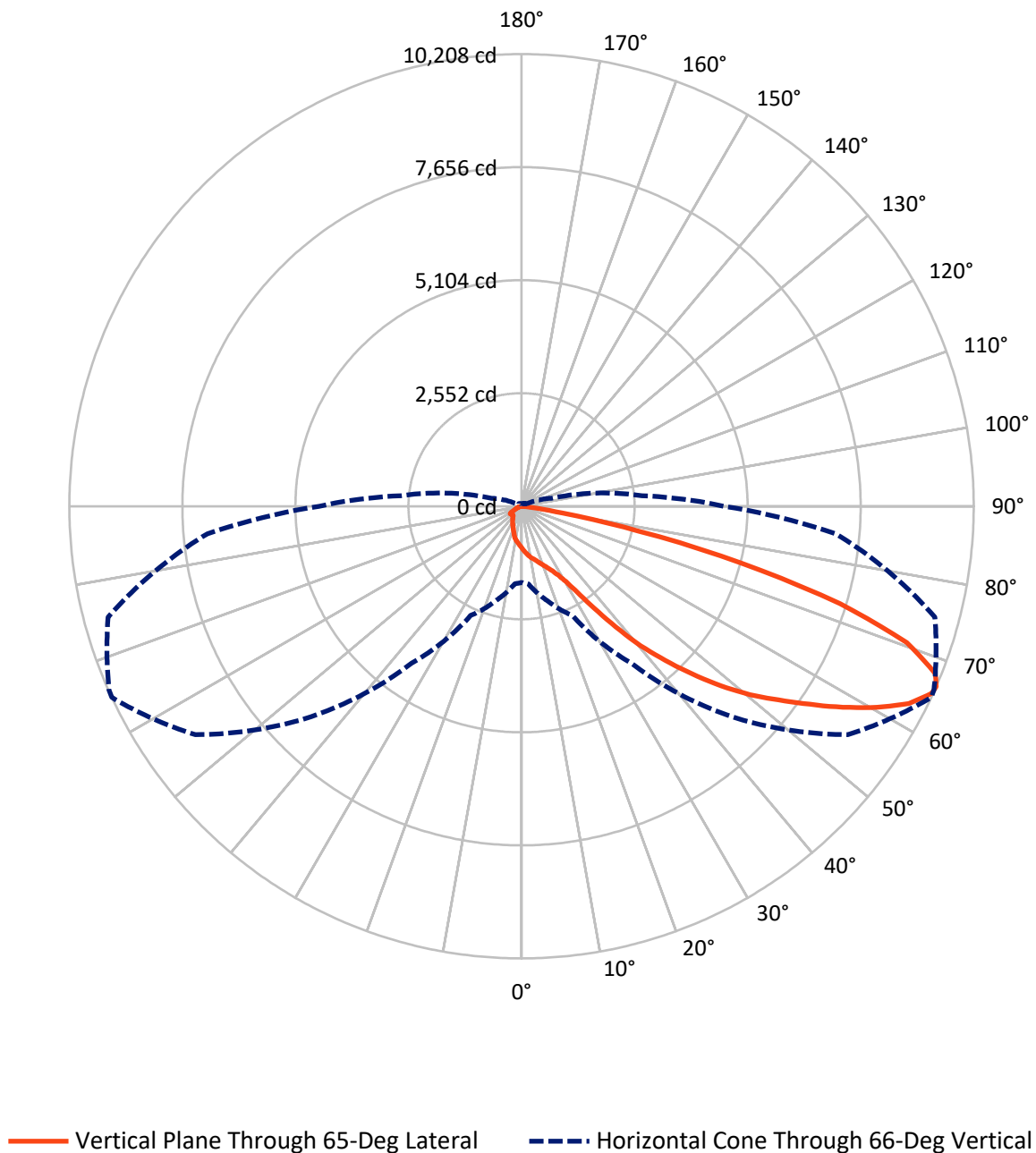
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	1364.0	0.0	1364.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	10193.0	0.0	10193.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	11557.0	0.0	11557.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	0.8
10°-20°	264.2	2.3
20°-30°	483.7	4.2
30°-40°	982.8	8.5
40°-50°	2075.3	18.0
50°-60°	3190.4	27.6
60°-70°	3211.4	27.8
70°-80°	1199.9	10.4
80°-90°	60.0	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°	11557.0	100.0
0°-180°	11557.0	100.0

Coefficient of Utilization



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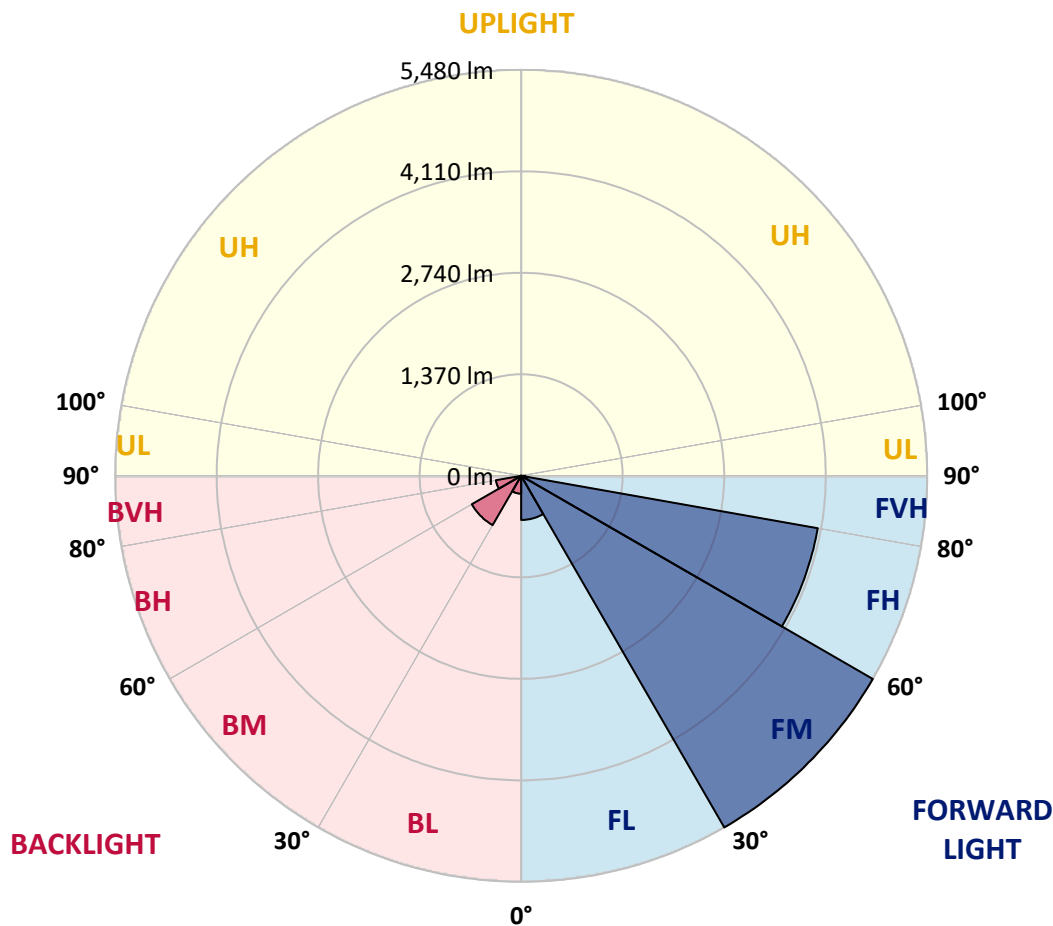
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	595.7	5.2			
FM	(30°-60°)	5479.5	47.4			
FH	(60°-80°)	4064.9	35.2			G2/5000
FVH	(80°-90°)	52.9	0.5			G1/100
BL	(0°-30°)	241.4	2.1	B1/500		
BM	(30°-60°)	769.0	6.7	B1/1000		
BH	(60°-80°)	346.5	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6
2.5°	1073.7	1075.8	1071.6	1063.2	1054.8	1044.3	1027.5	1000.3	996.1	977.2	956.2
5°	1147.1	1151.3	1145.0	1142.9	1138.7	1124.0	1100.9	1061.1	1056.9	1019.2	970.9
7.5°	1172.2	1178.5	1174.3	1174.3	1174.3	1168.1	1157.6	1121.9	1115.6	1067.4	994.0
10°	1191.1	1195.3	1193.2	1201.6	1207.9	1203.7	1197.4	1176.4	1170.1	1121.9	1025.5
12.5°	1220.5	1222.6	1224.7	1228.9	1239.3	1243.5	1241.4	1222.6	1218.4	1184.8	1065.3
15°	1247.7	1247.7	1249.8	1268.7	1283.4	1291.8	1293.9	1279.2	1275.0	1247.7	1115.6
17.5°	1272.9	1275.0	1281.3	1302.3	1327.4	1344.2	1354.7	1348.4	1342.1	1321.1	1174.3
20°	1310.6	1314.8	1321.1	1350.5	1375.7	1402.9	1423.9	1421.8	1419.7	1405.0	1243.5
22.5°	1375.7	1379.9	1390.3	1417.6	1442.8	1476.3	1512.0	1509.9	1503.6	1493.1	1325.3
25°	1474.2	1474.2	1480.5	1503.6	1535.0	1574.9	1608.4	1614.7	1608.4	1602.1	1428.1
27.5°	1597.9	1600.0	1600.0	1625.2	1654.6	1704.9	1746.8	1753.1	1753.1	1746.8	1566.5
30°	1769.9	1763.6	1759.4	1780.4	1811.8	1885.2	1958.6	1971.2	1964.9	1975.4	1761.5
32.5°	2065.6	2055.1	2019.4	2023.6	2042.5	2143.2	2266.9	2310.9	2308.8	2327.7	2076.1
35°	2474.5	2453.5	2401.1	2357.1	2355.0	2464.0	2652.8	2818.4	2816.3	2881.3	2554.2
37.5°	2935.9	2963.1	2864.6	2789.1	2766.0	2852.0	3095.2	3453.8	3472.7	3585.9	3181.2
40°	3552.4	3569.2	3443.3	3336.4	3227.3	3258.8	3579.6	4137.5	4171.0	4296.8	3808.2
42.5°	4089.2	4106.0	4032.6	3902.6	3764.2	3705.5	4068.3	4758.2	4785.4	4959.5	4454.1
45°	4454.1	4466.7	4491.9	4504.4	4347.2	4225.5	4665.9	5395.7	5429.2	5630.5	5085.3
47.5°	4739.3	4749.8	4800.1	4925.9	4894.5	4798.0	5274.1	6058.3	6066.7	6291.1	5699.8
50°	4871.4	4896.6	5020.3	5213.2	5351.6	5378.9	5934.6	6685.4	6708.4	6922.3	6280.6
52.5°	4724.6	4733.0	5045.5	5408.3	5687.2	5964.0	6597.3	7266.2	7333.3	7492.7	6802.8
55°	4229.7	4290.5	4764.5	5402.0	5951.4	6519.7	7306.1	7893.3	7954.1	8054.7	7262.0
57.5°	3655.1	3722.2	4298.9	5131.5	6064.6	7033.5	7962.5	8560.1	8602.1	8629.3	7683.5
60°	3158.1	3221.1	3814.5	4613.5	5951.4	7396.3	8572.7	9222.8	9258.4	9185.0	7895.4
62.5°	2547.9	2610.8	3208.5	3927.8	5506.8	7469.7	9025.7	9812.0	9826.7	9627.5	7765.3
65°	1920.9	1962.8	2461.9	3078.5	4728.8	7079.6	9128.4	10179.0	10164.3	9755.4	7375.3
66°	1721.7	1757.3	2197.7	2722.0	4324.1	6723.1	8990.0	10208.4	10193.7	9661.1	7119.4
67.5°	1484.7	1495.2	1858.0	2227.1	3617.4	5966.1	8568.5	10074.2	10086.8	9401.0	6651.8
70°	1159.7	1157.6	1367.3	1549.7	2470.3	4244.4	7146.7	9229.1	9289.9	8419.6	5672.5
72.5°	742.4	717.2	838.8	947.9	1438.6	2464.0	5211.1	7522.1	7624.8	6614.1	4225.5
75°	442.5	417.3	446.7	473.9	689.9	1184.8	3063.8	5118.9	5217.4	4240.2	2514.3
77.5°	331.3	320.8	322.9	299.9	306.2	444.6	1398.7	2705.2	2776.5	1736.3	954.2
80°	253.7	226.5	211.8	222.3	201.3	176.2	520.1	931.1	975.1	411.0	199.2
82.5°	169.9	146.8	136.3	148.9	127.9	98.6	125.8	180.3	176.2	111.1	77.6
85°	88.1	75.5	75.5	75.5	65.0	48.2	54.5	73.4	73.4	58.7	46.1
87.5°	25.2	23.1	27.3	25.2	18.9	18.9	21.0	25.2	25.2	23.1	21.0
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°	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6
2.5°	939.5	931.1	908.0	891.2	874.5	859.8	843.0	838.8	830.4	832.5	828.3
5°	945.8	922.7	882.9	845.1	815.7	790.6	759.1	746.5	729.8	723.5	719.3
7.5°	954.2	920.6	861.9	809.5	759.1	708.8	658.5	629.1	610.2	601.9	595.6
10°	973.0	929.0	851.4	769.6	683.6	612.3	562.0	541.0	528.5	526.4	524.3
12.5°	998.2	941.6	840.9	719.3	606.0	538.9	507.5	501.2	499.1	499.1	497.0
15°	1035.9	962.5	824.1	660.6	545.2	499.1	484.4	473.9	469.7	469.7	469.7
17.5°	1073.7	987.7	799.0	599.8	503.3	473.9	459.3	453.0	448.8	450.9	448.8
20°	1121.9	1017.1	765.4	547.3	476.0	453.0	438.3	432.0	429.9	429.9	429.9
22.5°	1176.4	1050.6	723.5	507.5	453.0	432.0	417.3	411.0	406.8	408.9	408.9
25°	1249.8	1092.6	679.4	467.6	429.9	411.0	394.2	385.9	385.9	388.0	390.0
27.5°	1344.2	1142.9	635.4	442.5	408.9	390.0	371.2	362.8	364.9	369.1	369.1
30°	1482.6	1212.1	591.4	415.2	385.9	364.9	348.1	339.7	343.9	352.3	352.3
32.5°	1679.7	1325.3	553.6	383.8	352.3	329.2	312.5	306.2	316.7	333.4	333.4
35°	2032.0	1532.9	530.6	352.3	316.7	289.4	268.4	262.1	276.8	297.8	297.8
37.5°	2503.9	1866.4	538.9	325.0	287.3	255.8	232.8	224.4	234.9	253.7	260.0
40°	3030.2	2269.0	612.3	302.0	260.0	228.6	205.5	197.1	203.4	211.8	213.9
42.5°	3556.6	2696.8	750.7	285.2	239.1	205.5	184.5	178.2	182.4	184.5	186.6
45°	4080.8	3120.4	924.8	274.7	220.2	186.6	165.7	165.7	167.8	167.8	167.8
47.5°	4577.8	3533.5	1107.2	272.6	203.4	167.8	151.0	153.1	153.1	155.2	155.2
50°	5047.6	3902.6	1291.8	278.9	188.7	151.0	138.4	138.4	138.4	140.5	138.4
52.5°	5439.7	4225.5	1484.7	289.4	174.1	138.4	125.8	125.8	125.8	127.9	125.8
55°	5810.9	4519.1	1681.8	304.1	161.5	127.9	115.3	111.1	111.1	113.2	111.1
57.5°	6112.9	4714.1	1868.5	306.2	151.0	117.4	106.9	100.7	100.7	100.7	100.7
60°	6125.4	4600.9	1923.0	268.4	138.4	106.9	96.5	88.1	90.2	90.2	90.2
62.5°	5724.9	4005.3	1545.5	201.3	123.7	96.5	88.1	79.7	79.7	79.7	79.7
65°	4938.5	3116.2	905.9	159.4	106.9	86.0	77.6	71.3	71.3	71.3	69.2
66°	4569.4	2732.4	694.1	144.7	100.7	83.9	75.5	69.2	67.1	65.0	65.0
67.5°	3967.6	2159.9	434.1	127.9	92.3	77.6	69.2	62.9	60.8	58.7	58.7
70°	2988.3	1371.5	211.8	98.6	79.7	67.1	60.8	54.5	52.4	50.3	48.2
72.5°	2097.0	803.2	111.1	75.5	65.0	58.7	52.4	46.1	44.0	41.9	41.9
75°	1184.8	388.0	73.4	54.5	52.4	48.2	44.0	37.7	35.6	35.6	35.6
77.5°	448.8	134.2	50.3	39.8	41.9	37.7	31.5	31.5	29.4	31.5	29.4
80°	117.4	58.7	31.5	29.4	31.5	27.3	23.1	25.2	25.2	25.2	25.2
82.5°	62.9	33.6	18.9	21.0	18.9	18.9	14.7	16.8	18.9	16.8	18.9
85°	44.0	16.8	10.5	10.5	8.4	8.4	6.3	8.4	10.5	8.4	8.4
87.5°	23.1	6.3	6.3	6.3	6.3	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)