

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: P1210874

Luminaire Tested: **ARCH4-100-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210874
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: ARCH4-100-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 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: 11650 lumens
Efficiency: N/A
Efficacy: 113.0 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



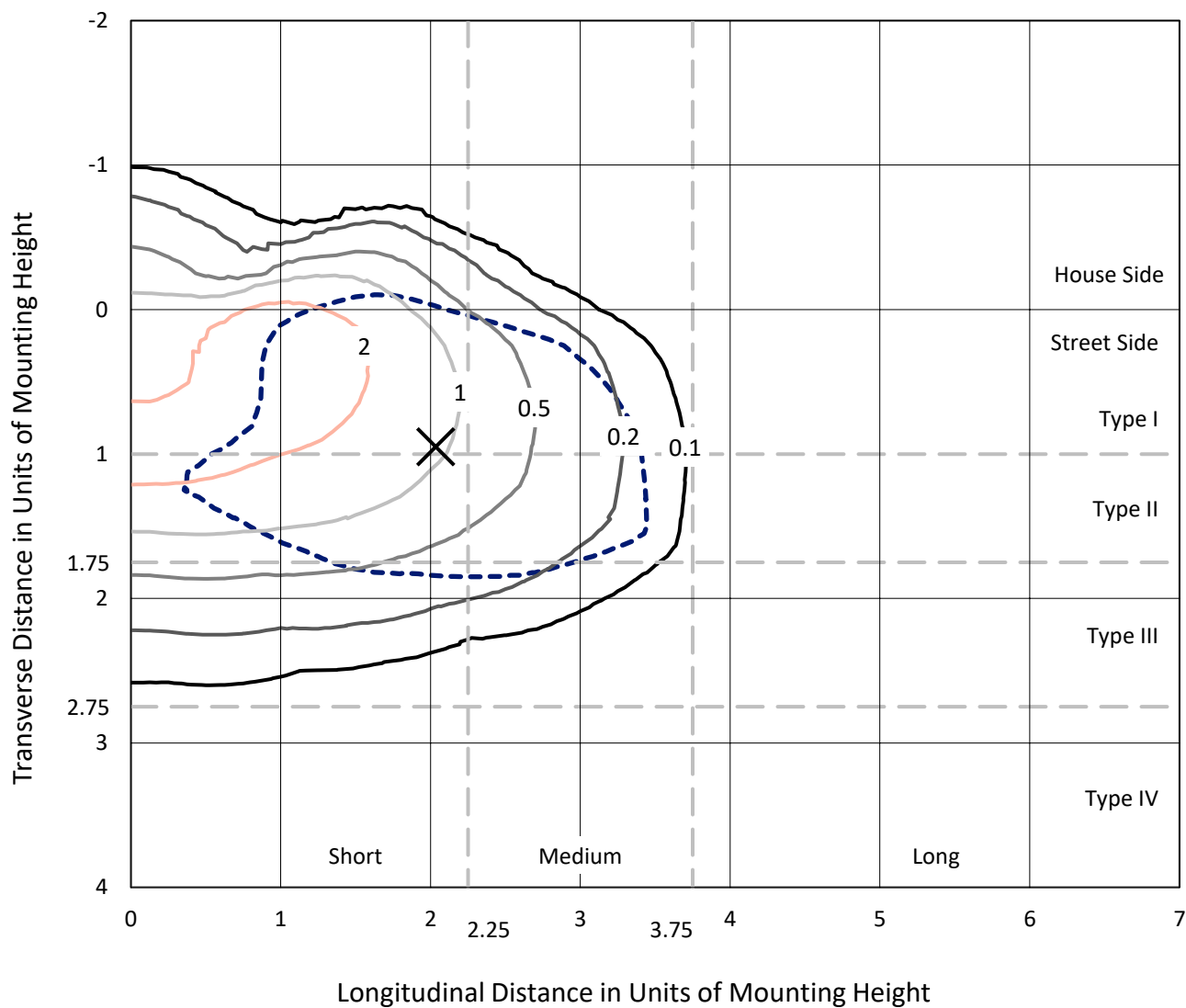
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

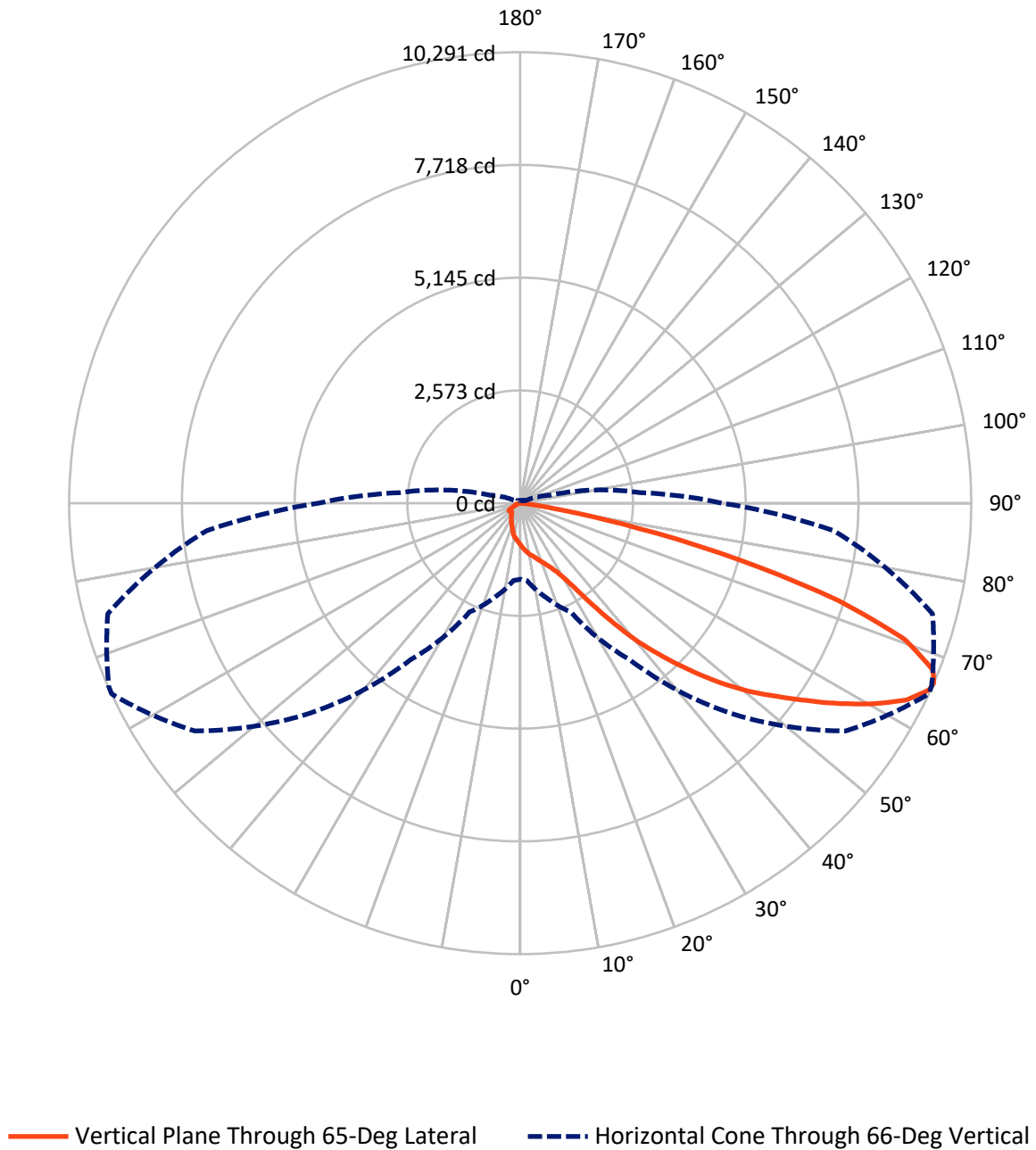
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	1374.9	0.0	1374.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	10275.1	0.0	10275.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	11650.0	0.0	11650.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	0.8
10°-20°	266.4	2.3
20°-30°	487.5	4.2
30°-40°	990.7	8.5
40°-50°	2092.0	18.0
50°-60°	3216.1	27.6
60°-70°	3237.3	27.8
70°-80°	1209.6	10.4
80°-90°	60.4	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°	11650.0	100.0
0°-180°	11650.0	100.0

Coefficient of Utilization



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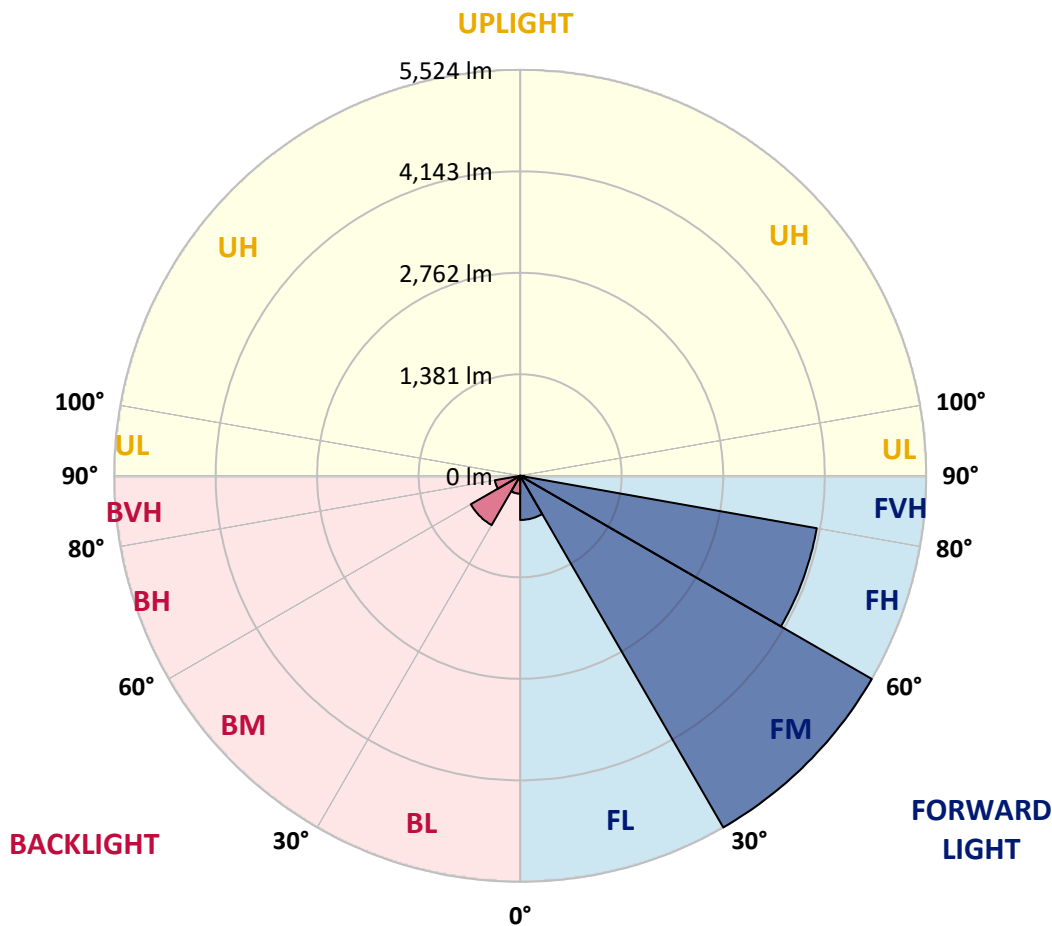
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	600.5	5.2			
FM	(30°-60°)	5523.6	47.4			
FH	(60°-80°)	4097.6	35.2			G2/5000
FVH	(80°-90°)	53.3	0.5			G1/100
BL	(0°-30°)	243.4	2.1	B1/500		
BM	(30°-60°)	775.2	6.7	B1/1000		
BH	(60°-80°)	349.3	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°	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1
2.5°	1082.3	1084.4	1080.2	1071.8	1063.3	1052.7	1035.8	1008.3	1004.1	985.1	963.9
5°	1156.3	1160.5	1154.2	1152.1	1147.9	1133.1	1109.8	1069.6	1065.4	1027.4	978.7
7.5°	1181.7	1188.0	1183.8	1183.8	1183.8	1177.4	1166.9	1130.9	1124.6	1076.0	1002.0
10°	1200.7	1204.9	1202.8	1211.3	1217.6	1213.4	1207.0	1185.9	1179.6	1130.9	1033.7
12.5°	1230.3	1232.4	1234.5	1238.8	1249.3	1253.6	1251.4	1232.4	1228.2	1194.4	1073.9
15°	1257.8	1257.8	1259.9	1278.9	1293.7	1302.2	1304.3	1289.5	1285.3	1257.8	1124.6
17.5°	1283.1	1285.3	1291.6	1312.7	1338.1	1355.0	1365.6	1359.2	1352.9	1331.8	1183.8
20°	1321.2	1325.4	1331.8	1361.4	1386.7	1414.2	1435.3	1433.2	1431.1	1416.3	1253.6
22.5°	1386.7	1391.0	1401.5	1429.0	1454.4	1488.2	1524.1	1522.0	1515.7	1505.1	1336.0
25°	1486.1	1486.1	1492.4	1515.7	1547.4	1587.5	1621.4	1627.7	1621.4	1615.0	1439.6
27.5°	1610.8	1612.9	1612.9	1638.3	1667.9	1718.6	1760.9	1767.2	1767.2	1760.9	1579.1
30°	1784.1	1777.8	1773.6	1794.7	1826.4	1900.4	1974.4	1987.1	1980.7	1991.3	1775.7
32.5°	2082.2	2071.6	2035.7	2039.9	2059.0	2160.4	2285.1	2329.5	2327.4	2346.4	2092.8
35°	2494.4	2473.3	2420.4	2376.0	2373.9	2483.8	2674.1	2841.1	2839.0	2904.5	2574.7
37.5°	2959.5	2987.0	2887.6	2811.5	2788.3	2874.9	3120.1	3481.6	3500.6	3614.8	3206.8
40°	3581.0	3597.9	3471.0	3363.2	3253.3	3285.0	3608.5	4170.8	4204.6	4331.4	3838.9
42.5°	4122.1	4139.0	4065.1	3934.0	3794.5	3735.3	4101.0	4796.5	4824.0	4999.4	4490.0
45°	4490.0	4502.6	4528.0	4540.7	4382.1	4259.5	4703.5	5439.1	5472.9	5675.9	5126.2
47.5°	4777.4	4788.0	4838.7	4965.6	4933.9	4836.6	5316.5	6107.1	6115.6	6341.7	5745.6
50°	4910.6	4936.0	5060.7	5255.2	5394.7	5422.2	5982.4	6739.2	6762.4	6978.0	6331.2
52.5°	4762.6	4771.1	5086.1	5451.8	5732.9	6012.0	6650.4	7324.7	7392.4	7553.0	6857.5
55°	4263.8	4325.1	4802.8	5445.4	5999.3	6572.2	7364.9	7956.8	8018.1	8119.5	7320.5
57.5°	3684.6	3752.2	4333.5	5172.7	6113.4	7090.1	8026.5	8629.0	8671.3	8698.8	7745.4
60°	3183.6	3247.0	3845.2	4650.6	5999.3	7455.8	8641.7	9297.0	9332.9	9258.9	7958.9
62.5°	2568.4	2631.8	3234.3	3959.4	5551.1	7529.8	9098.3	9891.0	9905.8	9705.0	7827.8
65°	1936.3	1978.6	2481.7	3103.2	4766.9	7136.6	9201.9	10260.9	10246.1	9833.9	7434.6
66°	1735.5	1771.5	2215.4	2743.9	4358.9	6777.2	9062.3	10290.5	10275.7	9738.8	7176.7
67.5°	1496.7	1507.2	1872.9	2245.0	3646.5	6014.1	8637.5	10155.2	10167.9	9476.7	6705.3
70°	1169.0	1166.9	1378.3	1562.2	2490.2	4278.6	7204.2	9303.3	9364.6	8487.4	5718.1
72.5°	748.3	723.0	845.6	955.5	1450.1	2483.8	5253.1	7582.6	7686.2	6667.3	4259.5
75°	446.0	420.7	450.3	477.7	695.5	1194.4	3088.4	5160.1	5259.4	4274.3	2534.6
77.5°	334.0	323.4	325.5	302.3	308.6	448.1	1410.0	2726.9	2798.8	1750.3	961.8
80°	255.8	228.3	213.5	224.1	202.9	177.6	524.3	938.6	983.0	414.3	200.8
82.5°	171.2	148.0	137.4	150.1	128.9	99.4	126.8	181.8	177.6	112.0	78.2
85°	88.8	76.1	76.1	76.1	65.5	48.6	55.0	74.0	74.0	59.2	46.5
87.5°	25.4	23.3	27.5	25.4	19.0	19.0	21.1	25.4	25.4	23.3	21.1
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°	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1
2.5°	947.0	938.6	915.3	898.4	881.5	866.7	849.8	845.6	837.1	839.2	835.0
5°	953.4	930.1	890.0	851.9	822.3	796.9	765.2	752.6	735.6	729.3	725.1
7.5°	961.8	928.0	868.8	816.0	765.2	714.5	663.8	634.2	615.1	606.7	600.4
10°	980.9	936.5	858.2	775.8	689.1	617.3	566.5	545.4	532.7	530.6	528.5
12.5°	1006.2	949.1	847.7	725.1	610.9	543.3	511.6	505.2	503.1	503.1	501.0
15°	1044.3	970.3	830.8	665.9	549.6	503.1	488.3	477.7	473.5	473.5	473.5
17.5°	1082.3	995.7	805.4	604.6	507.3	477.7	462.9	456.6	452.4	454.5	452.4
20°	1130.9	1025.2	771.6	551.7	479.9	456.6	441.8	435.5	433.4	433.4	433.4
22.5°	1185.9	1059.1	729.3	511.6	456.6	435.5	420.7	414.3	410.1	412.2	412.2
25°	1259.9	1101.3	684.9	471.4	433.4	414.3	397.4	389.0	389.0	391.1	393.2
27.5°	1355.0	1152.1	640.5	446.0	412.2	393.2	374.2	365.7	367.8	372.0	372.0
30°	1494.5	1221.8	596.1	418.6	389.0	367.8	350.9	342.5	346.7	355.1	355.1
32.5°	1693.2	1336.0	558.1	386.8	355.1	331.9	315.0	308.6	319.2	336.1	336.1
35°	2048.4	1545.3	534.8	355.1	319.2	291.7	270.6	264.2	279.0	300.2	300.2
37.5°	2524.0	1881.4	543.3	327.7	289.6	257.9	234.6	226.2	236.8	255.8	262.1
40°	3054.6	2287.3	617.3	304.4	262.1	230.4	207.2	198.7	205.0	213.5	215.6
42.5°	3585.2	2718.5	756.8	287.5	241.0	207.2	186.0	179.7	183.9	186.0	188.1
45°	4113.7	3145.5	932.2	276.9	222.0	188.1	167.0	167.0	169.1	169.1	169.1
47.5°	4614.7	3561.9	1116.1	274.8	205.0	169.1	152.2	154.3	154.3	156.4	156.4
50°	5088.2	3934.0	1302.2	281.2	190.3	152.2	139.5	139.5	139.5	141.6	139.5
52.5°	5483.5	4259.5	1496.7	291.7	175.5	139.5	126.8	126.8	126.8	128.9	126.8
55°	5857.7	4555.5	1695.4	306.5	162.8	128.9	116.3	112.0	112.0	114.2	112.0
57.5°	6162.1	4752.1	1883.5	308.6	152.2	118.4	107.8	101.5	101.5	101.5	101.5
60°	6174.7	4637.9	1938.5	270.6	139.5	107.8	97.2	88.8	90.9	90.9	90.9
62.5°	5771.0	4037.6	1558.0	202.9	124.7	97.2	88.8	80.3	80.3	80.3	80.3
65°	4978.3	3141.3	913.2	160.7	107.8	86.7	78.2	71.9	71.9	71.9	69.8
66°	4606.2	2754.4	699.7	145.9	101.5	84.6	76.1	69.8	67.6	65.5	65.5
67.5°	3999.5	2177.3	437.6	128.9	93.0	78.2	69.8	63.4	61.3	59.2	59.2
70°	3012.3	1382.5	213.5	99.4	80.3	67.6	61.3	55.0	52.8	50.7	48.6
72.5°	2113.9	809.6	112.0	76.1	65.5	59.2	52.8	46.5	44.4	42.3	42.3
75°	1194.4	391.1	74.0	55.0	52.8	48.6	44.4	38.1	35.9	35.9	35.9
77.5°	452.4	135.3	50.7	40.2	42.3	38.1	31.7	31.7	29.6	31.7	29.6
80°	118.4	59.2	31.7	29.6	31.7	27.5	23.3	25.4	25.4	25.4	25.4
82.5°	63.4	33.8	19.0	21.1	19.0	19.0	14.8	16.9	19.0	16.9	19.0
85°	44.4	16.9	10.6	10.6	8.5	8.5	6.3	8.5	10.6	8.5	8.5
87.5°	23.3	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)