

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: P1210438

Luminaire Tested: **ARCH3-120-740-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210438
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: ARCH3-120-740-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 965mA 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: 13255 lumens
Efficiency: N/A
Efficacy: 108.0 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): 122.7
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

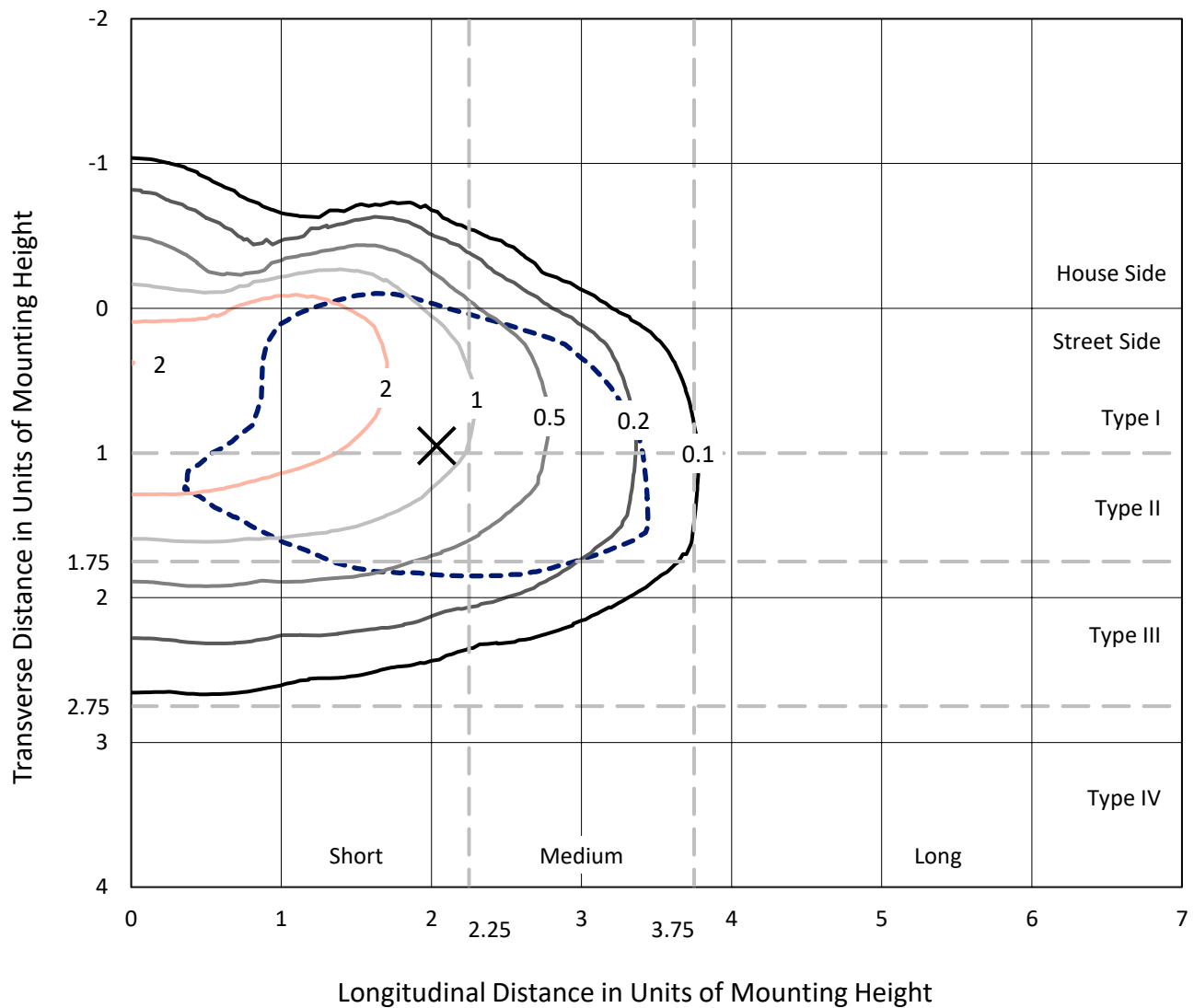


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

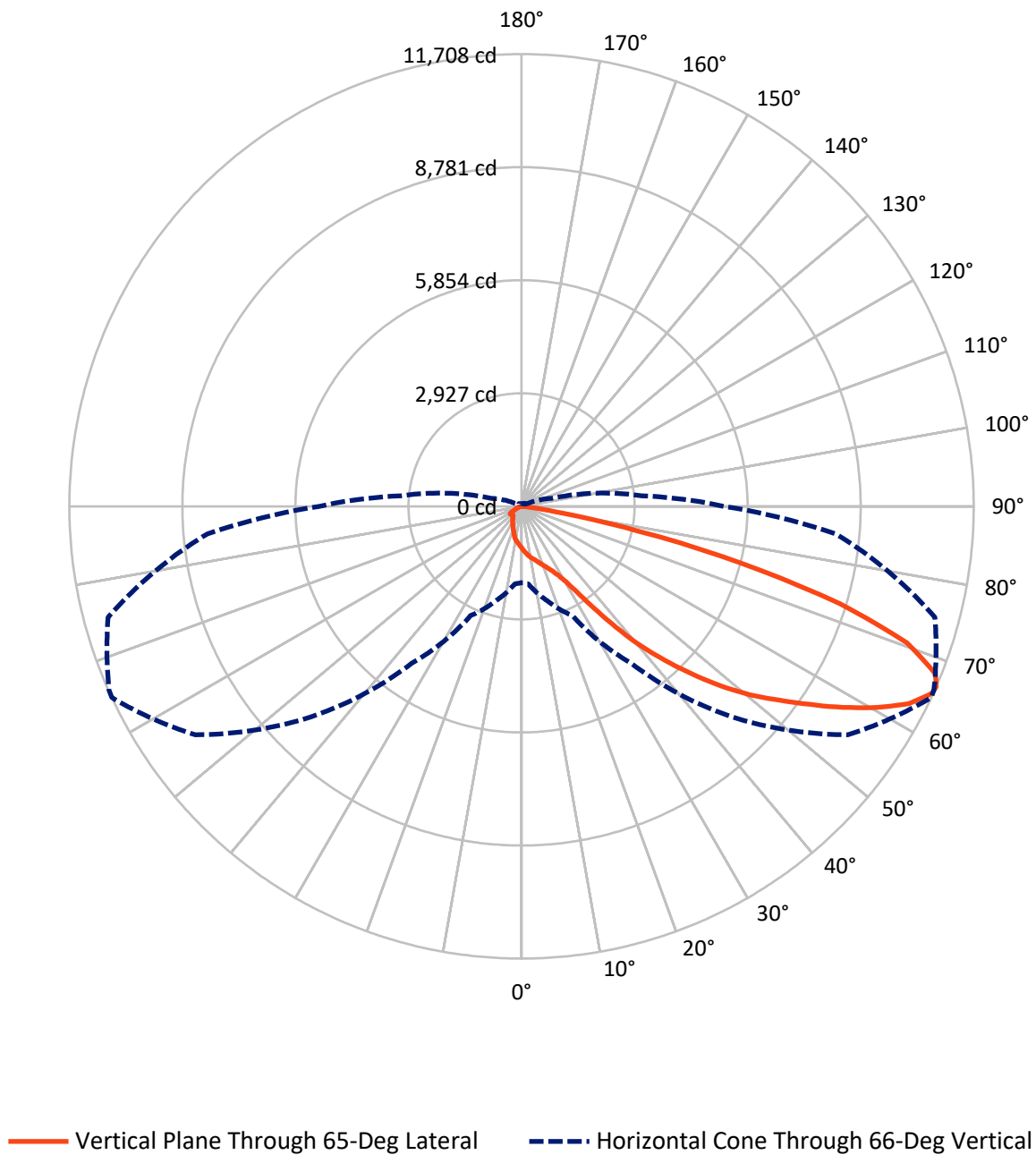


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1564.4	0.0	1564.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	11690.6	0.0	11690.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	13255.0	0.0	13255.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	0.8
10°-20°	303.1	2.3
20°-30°	554.7	4.2
30°-40°	1127.2	8.5
40°-50°	2380.2	18.0
50°-60°	3659.2	27.6
60°-70°	3683.2	27.8
70°-80°	1376.3	10.4
80°-90°	68.7	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°	13255.0	100.0
0°-180°	13255.0	100.0

Coefficient of Utilization



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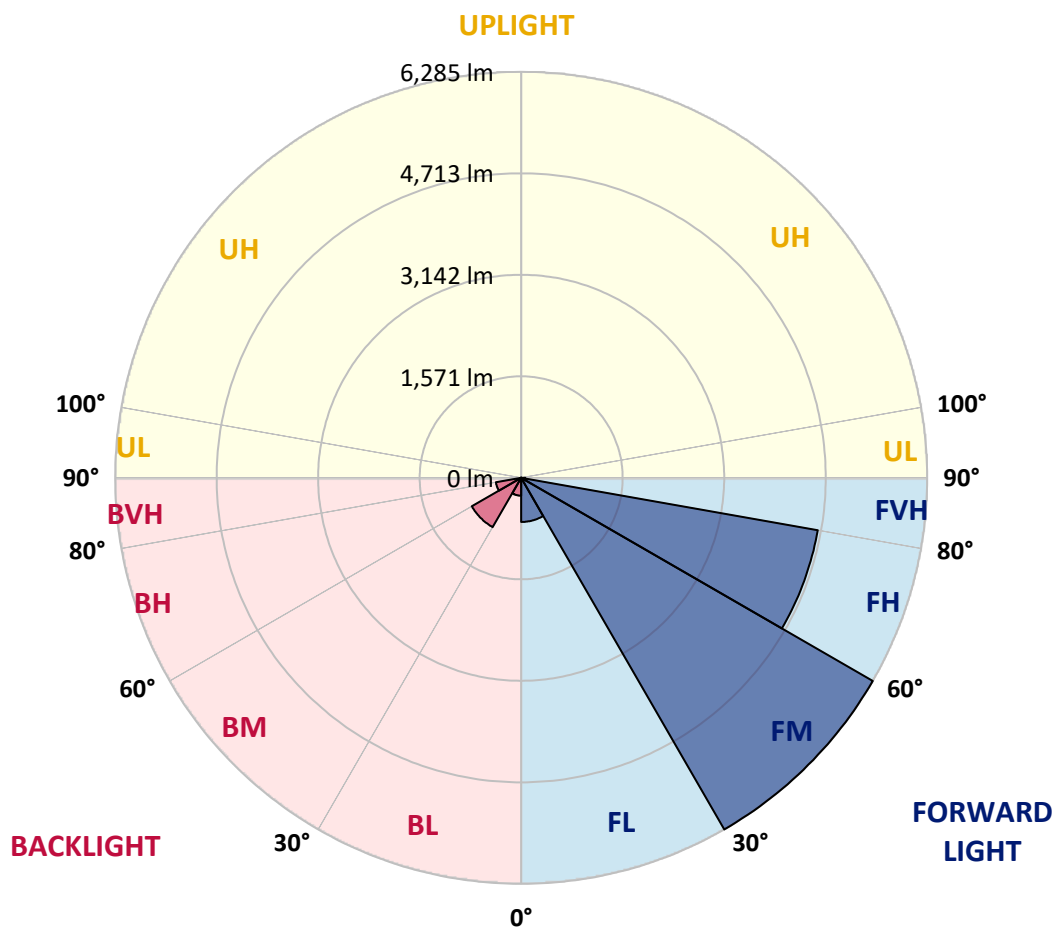
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	683.3	5.2			
FM	(30°-60°)	6284.6	47.4			
FH	(60°-80°)	4662.1	35.2			G2/5000
FVH	(80°-90°)	60.7	0.5			G1/100
BL	(0°-30°)	276.9	2.1	B1/500		
BM	(30°-60°)	882.0	6.7	B1/1000		
BH	(60°-80°)	397.4	3.0	B1/500		G1/500
BVH	(80°-90°)	8.1	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°	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9
2.5°	1231.4	1233.8	1229.0	1219.4	1209.8	1197.8	1178.5	1147.3	1142.4	1120.8	1096.7
5°	1315.6	1320.4	1313.2	1310.8	1306.0	1289.2	1262.7	1217.0	1212.2	1168.9	1113.6
7.5°	1344.5	1351.7	1346.9	1346.9	1346.9	1339.7	1327.6	1286.8	1279.5	1224.2	1140.0
10°	1366.1	1370.9	1368.5	1378.1	1385.4	1380.6	1373.3	1349.3	1342.1	1286.8	1176.1
12.5°	1399.8	1402.2	1404.6	1409.4	1421.4	1426.3	1423.8	1402.2	1397.4	1358.9	1221.8
15°	1431.1	1431.1	1433.5	1455.1	1471.9	1481.6	1484.0	1467.1	1462.3	1431.1	1279.5
17.5°	1459.9	1462.3	1469.5	1493.6	1522.5	1541.7	1553.7	1546.5	1539.3	1515.2	1346.9
20°	1503.2	1508.0	1515.2	1548.9	1577.8	1609.0	1633.1	1630.7	1628.3	1611.4	1426.3
22.5°	1577.8	1582.6	1594.6	1625.9	1654.7	1693.2	1734.1	1731.7	1724.5	1712.5	1520.1
25°	1690.8	1690.8	1698.0	1724.5	1760.6	1806.3	1844.7	1852.0	1844.7	1837.5	1637.9
27.5°	1832.7	1835.1	1835.1	1864.0	1897.7	1955.4	2003.5	2010.7	2010.7	2003.5	1796.6
30°	2029.9	2022.7	2017.9	2042.0	2078.0	2162.2	2246.4	2260.8	2253.6	2265.6	2020.3
32.5°	2369.1	2357.0	2316.2	2321.0	2342.6	2458.1	2600.0	2650.5	2648.1	2669.7	2381.1
35°	2838.1	2814.0	2753.9	2703.4	2701.0	2826.0	3042.5	3232.5	3230.1	3304.7	2929.5
37.5°	3367.2	3398.5	3285.4	3198.8	3172.4	3271.0	3550.0	3961.3	3982.9	4112.8	3648.6
40°	4074.3	4093.6	3949.2	3826.6	3701.5	3737.6	4105.6	4745.3	4783.8	4928.1	4367.7
42.5°	4690.0	4709.3	4625.1	4476.0	4317.2	4249.9	4666.0	5457.3	5488.5	5688.2	5108.5
45°	5108.5	5123.0	5151.8	5166.2	4985.9	4846.4	5351.4	6188.4	6226.9	6457.8	5832.5
47.5°	5435.6	5447.7	5505.4	5649.7	5613.6	5503.0	6048.9	6948.5	6958.1	7215.4	6537.2
50°	5587.1	5616.0	5757.9	5979.2	6137.9	6169.2	6806.6	7667.6	7694.1	7939.4	7203.4
52.5°	5418.8	5428.4	5786.8	6202.9	6522.7	6840.2	7566.6	8333.8	8410.8	8593.6	7802.3
55°	4851.2	4920.9	5464.5	6195.7	6825.8	7477.6	8379.5	9053.0	9122.7	9238.2	8329.0
57.5°	4192.2	4269.1	4930.5	5885.4	6955.7	8066.9	9132.3	9817.8	9865.9	9897.2	8812.4
60°	3622.1	3694.3	4375.0	5291.3	6825.8	8482.9	9832.2	10577.8	10618.7	10534.5	9055.4
62.5°	2922.2	2994.4	3679.9	4504.8	6315.9	8567.1	10351.7	11253.7	11270.5	11042.0	8906.2
65°	2203.1	2251.2	2823.6	3530.8	5423.6	8119.8	10469.6	11674.6	11657.7	11188.7	8458.9
66°	1974.6	2015.5	2520.6	3121.9	4959.4	7710.9	10310.9	11708.2	11691.4	11080.5	8165.5
67.5°	1702.8	1714.9	2131.0	2554.3	4148.9	6842.6	9827.4	11554.3	11568.7	10782.3	7629.1
70°	1330.0	1327.6	1568.2	1777.4	2833.3	4868.0	8196.7	10585.0	10654.8	9656.7	6505.9
72.5°	851.4	822.6	962.1	1087.1	1649.9	2826.0	5976.8	8627.3	8745.1	7585.8	4846.4
75°	507.5	478.6	512.3	543.6	791.3	1358.9	3513.9	5871.0	5984.0	4863.2	2883.8
77.5°	380.0	368.0	370.4	343.9	351.2	509.9	1604.2	3102.6	3184.4	1991.5	1094.3
80°	291.0	259.8	242.9	254.9	230.9	202.0	596.5	1067.9	1118.4	471.4	228.5
82.5°	194.8	168.4	156.3	170.8	146.7	113.0	144.3	206.8	202.0	127.5	89.0
85°	101.0	86.6	86.6	86.6	74.6	55.3	62.5	84.2	84.2	67.3	52.9
87.5°	28.9	26.5	31.3	28.9	21.6	21.6	24.1	28.9	28.9	26.5	24.1
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°	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9	1079.9
2.5°	1077.5	1067.9	1041.4	1022.2	1002.9	986.1	966.9	962.1	952.4	954.8	950.0
5°	1084.7	1058.3	1012.6	969.3	935.6	906.7	870.7	856.2	837.0	829.8	825.0
7.5°	1094.3	1055.9	988.5	928.4	870.7	812.9	755.2	721.5	699.9	690.3	683.1
10°	1116.0	1065.5	976.5	882.7	784.1	702.3	644.6	620.5	606.1	603.7	601.3
12.5°	1144.8	1079.9	964.5	825.0	695.1	618.1	582.0	574.8	572.4	572.4	570.0
15°	1188.1	1104.0	945.2	757.6	625.3	572.4	555.6	543.6	538.8	538.8	538.8
17.5°	1231.4	1132.8	916.4	687.9	577.2	543.6	526.7	519.5	514.7	517.1	514.7
20°	1286.8	1166.5	877.9	627.7	546.0	519.5	502.7	495.5	493.1	493.1	493.1
22.5°	1349.3	1205.0	829.8	582.0	519.5	495.5	478.6	471.4	466.6	469.0	469.0
25°	1433.5	1253.1	779.3	536.3	493.1	471.4	452.2	442.5	442.5	445.0	447.4
27.5°	1541.7	1310.8	728.8	507.5	469.0	447.4	425.7	416.1	418.5	423.3	423.3
30°	1700.4	1390.2	678.3	476.2	442.5	418.5	399.3	389.6	394.4	404.1	404.1
32.5°	1926.5	1520.1	635.0	440.1	404.1	377.6	358.4	351.2	363.2	382.4	382.4
35°	2330.6	1758.2	608.5	404.1	363.2	331.9	307.9	300.6	317.5	341.5	341.5
37.5°	2871.7	2140.6	618.1	372.8	329.5	293.4	267.0	257.4	269.4	291.0	298.2
40°	3475.4	2602.4	702.3	346.3	298.2	262.2	235.7	226.1	233.3	242.9	245.3
42.5°	4079.1	3093.0	861.0	327.1	274.2	235.7	211.7	204.4	209.2	211.7	214.1
45°	4680.4	3578.9	1060.7	315.1	252.5	214.1	190.0	190.0	192.4	192.4	192.4
47.5°	5250.4	4052.7	1269.9	312.7	233.3	192.4	173.2	175.6	175.6	178.0	178.0
50°	5789.2	4476.0	1481.6	319.9	216.5	173.2	158.7	158.7	158.7	161.1	158.7
52.5°	6238.9	4846.4	1702.8	331.9	199.6	158.7	144.3	144.3	144.3	146.7	144.3
55°	6664.7	5183.1	1928.9	348.7	185.2	146.7	132.3	127.5	127.5	129.9	127.5
57.5°	7011.0	5406.8	2143.0	351.2	173.2	134.7	122.7	115.4	115.4	115.4	115.4
60°	7025.4	5276.9	2205.5	307.9	158.7	122.7	110.6	101.0	103.4	103.4	103.4
62.5°	6566.0	4593.8	1772.6	230.9	141.9	110.6	101.0	91.4	91.4	91.4	91.4
65°	5664.1	3574.0	1039.0	182.8	122.7	98.6	89.0	81.8	81.8	81.8	79.4
66°	5240.8	3133.9	796.1	166.0	115.4	96.2	86.6	79.4	77.0	74.6	74.6
67.5°	4550.5	2477.3	497.9	146.7	105.8	89.0	79.4	72.2	69.7	67.3	67.3
70°	3427.3	1573.0	242.9	113.0	91.4	77.0	69.7	62.5	60.1	57.7	55.3
72.5°	2405.1	921.2	127.5	86.6	74.6	67.3	60.1	52.9	50.5	48.1	48.1
75°	1358.9	445.0	84.2	62.5	60.1	55.3	50.5	43.3	40.9	40.9	40.9
77.5°	514.7	153.9	57.7	45.7	48.1	43.3	36.1	36.1	33.7	36.1	33.7
80°	134.7	67.3	36.1	33.7	36.1	31.3	26.5	28.9	28.9	28.9	28.9
82.5°	72.2	38.5	21.6	24.1	21.6	21.6	16.8	19.2	21.6	19.2	21.6
85°	50.5	19.2	12.0	12.0	9.6	9.6	7.2	9.6	12.0	9.6	9.6
87.5°	26.5	7.2	7.2	7.2	7.2	4.8	2.4	0.0	2.4	2.4	2.4
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)