

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: P1210430

Luminaire Tested: **ARCH3-120-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210430
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: ARCH3-120-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 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: 12624 lumens
Efficiency: N/A
Efficacy: 102.9 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

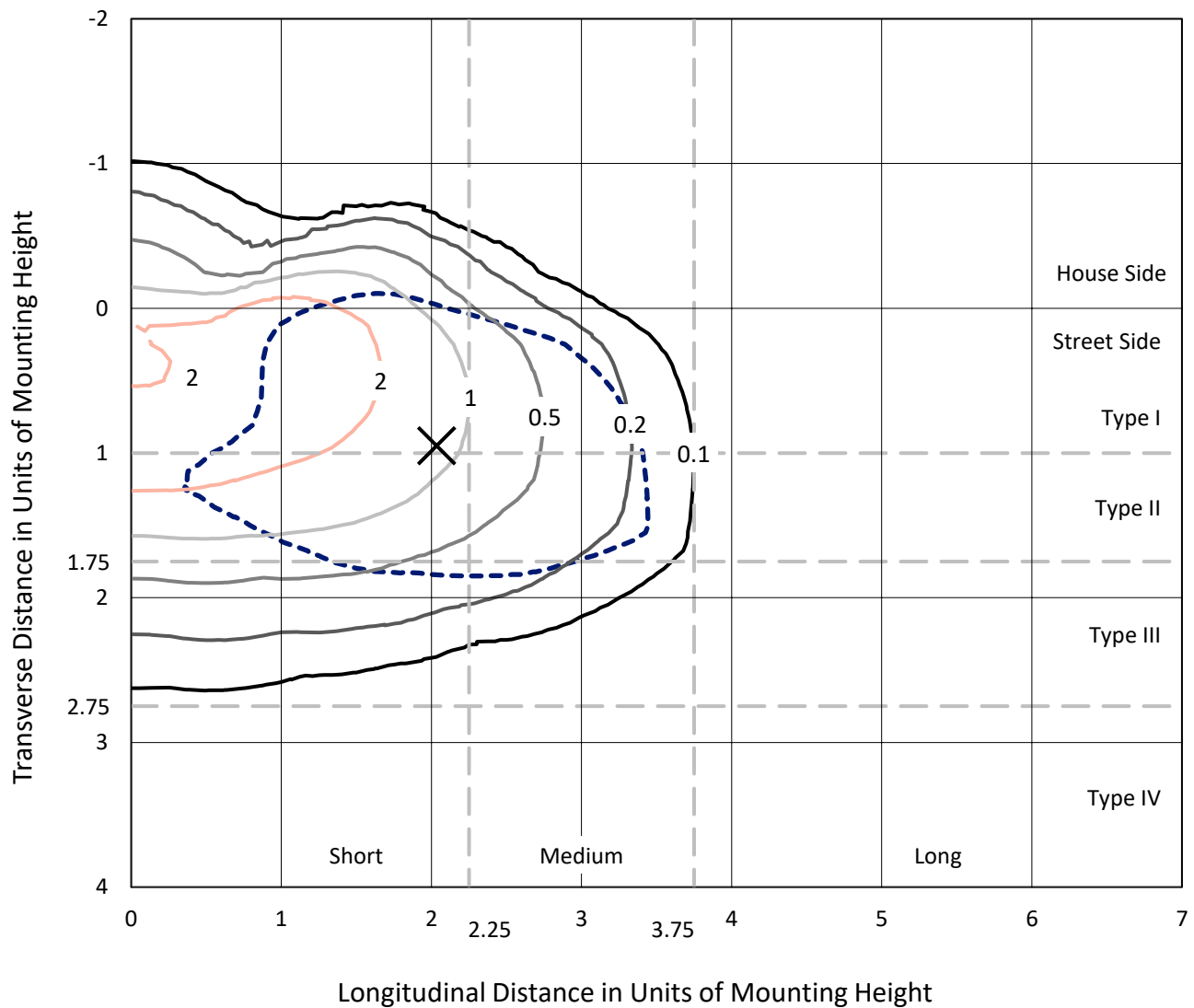
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

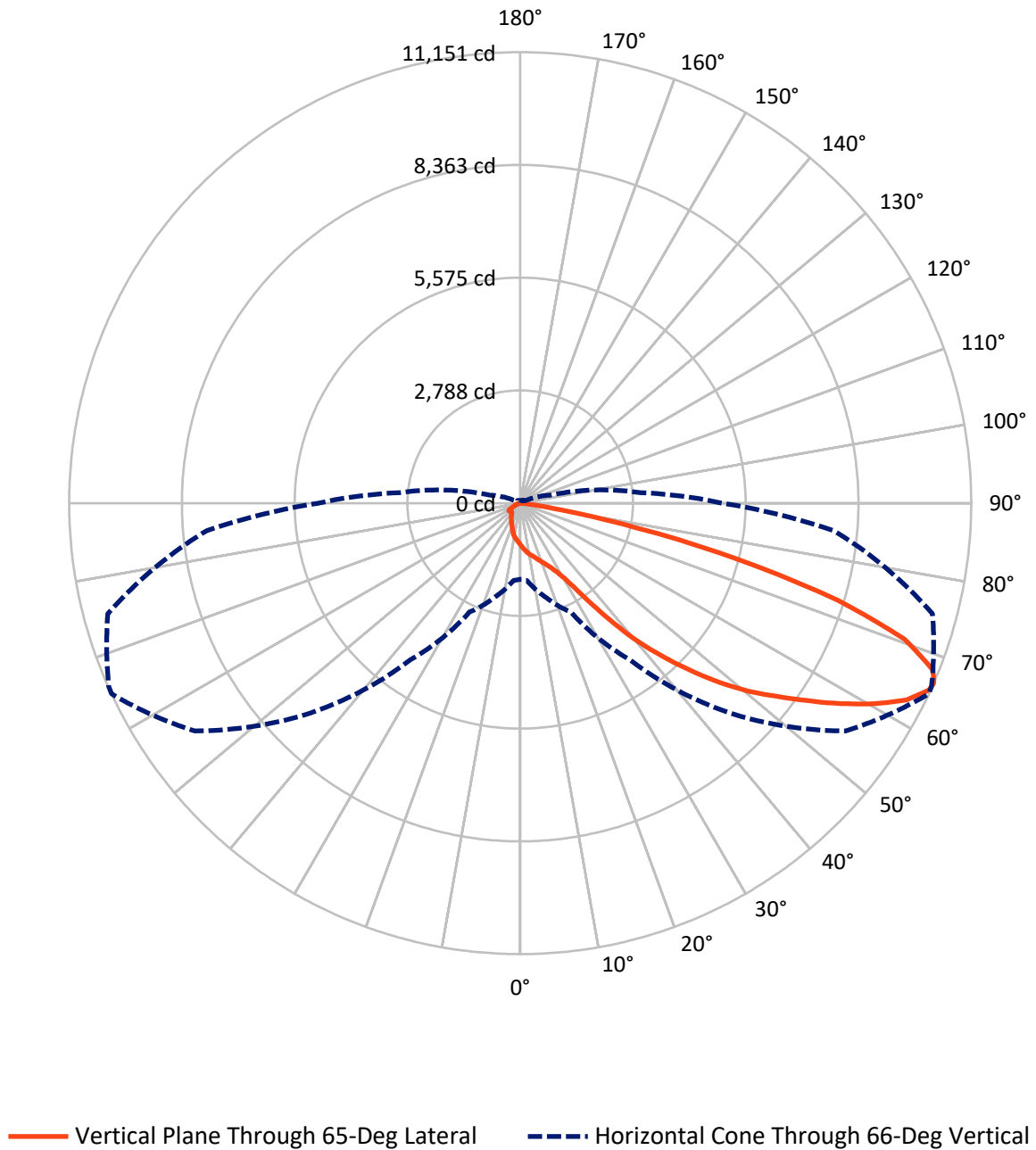
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	1489.9	0.0	1489.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	11134.1	0.0	11134.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	12624.0	0.0	12624.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.5	0.8
10°-20°	288.6	2.3
20°-30°	528.3	4.2
30°-40°	1073.5	8.5
40°-50°	2266.9	18.0
50°-60°	3485.0	27.6
60°-70°	3507.9	27.8
70°-80°	1310.7	10.4
80°-90°	65.5	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°	12624.0	100.0
0°-180°	12624.0	100.0

Coefficient of Utilization



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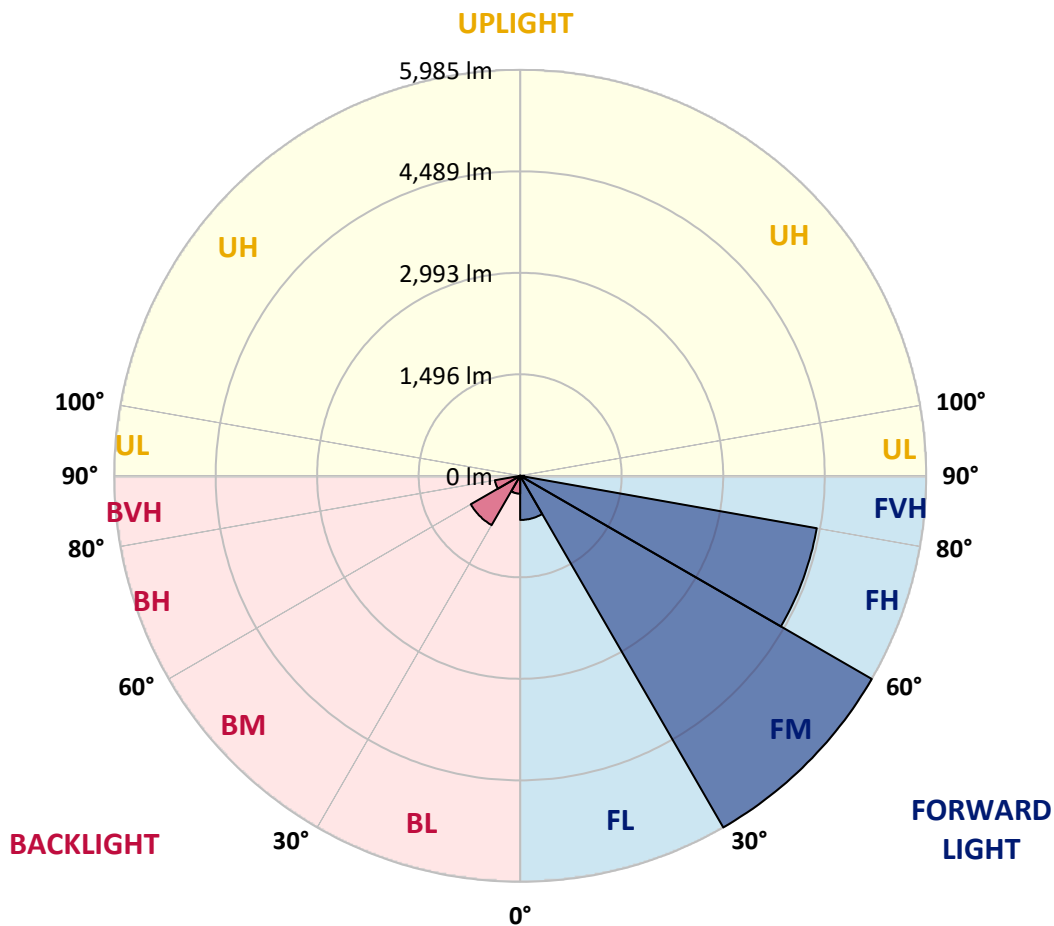
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	650.8	5.2			
FM	(30°-60°)	5985.4	47.4			
FH	(60°-80°)	4440.2	35.2			G2/5000
FVH	(80°-90°)	57.8	0.5			G1/100
BL	(0°-30°)	263.7	2.1	B1/500		
BM	(30°-60°)	840.0	6.7	B1/1000		
BH	(60°-80°)	378.5	3.0	B1/500		G1/500
BVH	(80°-90°)	7.7	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°	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5
2.5°	1172.8	1175.1	1170.5	1161.4	1152.2	1140.7	1122.4	1092.6	1088.1	1067.4	1044.5
5°	1253.0	1257.6	1250.7	1248.4	1243.8	1227.8	1202.6	1159.1	1154.5	1113.3	1060.6
7.5°	1280.5	1287.3	1282.8	1282.8	1282.8	1275.9	1264.4	1225.5	1218.6	1165.9	1085.8
10°	1301.1	1305.7	1303.4	1312.5	1319.4	1314.8	1308.0	1285.1	1278.2	1225.5	1120.1
12.5°	1333.2	1335.4	1337.7	1342.3	1353.8	1358.4	1356.1	1335.4	1330.9	1294.2	1163.6
15°	1362.9	1362.9	1365.2	1385.8	1401.9	1411.0	1413.3	1397.3	1392.7	1362.9	1218.6
17.5°	1390.4	1392.7	1399.6	1422.5	1450.0	1468.3	1479.8	1472.9	1466.0	1443.1	1282.8
20°	1431.7	1436.2	1443.1	1475.2	1502.7	1532.4	1555.3	1553.1	1550.8	1534.7	1358.4
22.5°	1502.7	1507.2	1518.7	1548.5	1576.0	1612.6	1651.6	1649.3	1642.4	1630.9	1447.7
25°	1610.3	1610.3	1617.2	1642.4	1676.8	1720.3	1756.9	1763.8	1756.9	1750.1	1559.9
27.5°	1745.5	1747.8	1747.8	1775.3	1807.3	1862.3	1908.1	1915.0	1915.0	1908.1	1711.1
30°	1933.3	1926.4	1921.9	1944.8	1979.1	2059.3	2139.5	2153.2	2146.3	2157.8	1924.1
32.5°	2256.3	2244.8	2205.9	2210.5	2231.1	2341.0	2476.2	2524.3	2522.0	2542.6	2267.7
35°	2703.0	2680.1	2622.8	2574.7	2572.4	2691.5	2897.7	3078.6	3076.3	3147.3	2790.0
37.5°	3206.9	3236.7	3129.0	3046.6	3021.4	3115.3	3381.0	3772.7	3793.3	3917.0	3474.9
40°	3880.4	3898.7	3761.2	3644.4	3525.3	3559.7	3910.1	4519.4	4556.1	4693.5	4159.8
42.5°	4466.8	4485.1	4404.9	4262.9	4111.7	4047.6	4443.9	5197.5	5227.3	5417.4	4865.3
45°	4865.3	4879.1	4906.6	4920.3	4748.5	4615.7	5096.7	5893.8	5930.5	6150.4	5554.8
47.5°	5176.9	5188.3	5243.3	5380.7	5346.4	5241.0	5761.0	6617.7	6626.8	6871.9	6226.0
50°	5321.2	5348.7	5483.8	5694.6	5845.7	5875.5	6482.5	7302.6	7327.8	7561.4	6860.5
52.5°	5160.8	5170.0	5511.3	5907.6	6212.2	6514.6	7206.4	7937.1	8010.4	8184.5	7430.9
55°	4620.2	4686.7	5204.4	5900.7	6500.9	7121.6	7980.6	8622.0	8688.4	8798.4	7932.5
57.5°	3992.6	4065.9	4695.8	5605.2	6624.6	7682.8	8697.6	9350.4	9396.2	9426.0	8392.9
60°	3449.7	3518.4	4166.7	5039.4	6500.9	8079.1	9364.2	10074.3	10113.2	10033.0	8624.3
62.5°	2783.1	2851.9	3504.7	4290.4	6015.2	8159.3	9858.9	10717.9	10734.0	10516.4	8482.3
65°	2098.2	2144.0	2689.2	3362.7	5165.4	7733.2	9971.2	11118.8	11102.8	10656.1	8056.2
66°	1880.6	1919.6	2400.6	2973.3	4723.3	7343.8	9820.0	11150.9	11134.8	10553.0	7776.7
67.5°	1621.8	1633.2	2029.5	2432.7	3951.4	6516.9	9359.6	11004.3	11018.0	10269.0	7265.9
70°	1266.7	1264.4	1493.5	1692.8	2698.4	4636.3	7806.5	10081.1	10147.6	9197.0	6196.2
72.5°	810.9	783.4	916.3	1035.4	1571.4	2691.5	5692.3	8216.6	8328.8	7224.7	4615.7
75°	483.3	455.8	487.9	517.7	753.6	1294.2	3346.6	5591.5	5699.1	4631.7	2746.5
77.5°	361.9	350.5	352.8	327.6	334.4	485.6	1527.9	2954.9	3032.8	1896.7	1042.2
80°	277.2	247.4	231.4	242.8	219.9	192.4	568.1	1017.0	1065.2	449.0	217.6
82.5°	185.5	160.3	148.9	162.6	139.7	107.7	137.4	197.0	192.4	121.4	84.8
85°	96.2	82.5	82.5	82.5	71.0	52.7	59.6	80.2	80.2	64.1	50.4
87.5°	27.5	25.2	29.8	27.5	20.6	20.6	22.9	27.5	27.5	25.2	22.9
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°	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5	1028.5
2.5°	1026.2	1017.0	991.9	973.5	955.2	939.2	920.8	916.3	907.1	909.4	904.8
5°	1033.1	1007.9	964.4	923.1	891.1	863.6	829.2	815.5	797.1	790.3	785.7
7.5°	1042.2	1005.6	941.5	884.2	829.2	774.2	719.3	687.2	666.6	657.4	650.5
10°	1062.9	1014.8	930.0	840.7	746.8	668.9	613.9	591.0	577.2	575.0	572.7
12.5°	1090.3	1028.5	918.5	785.7	662.0	588.7	554.3	547.5	545.2	545.2	542.9
15°	1131.6	1051.4	900.2	721.6	595.6	545.2	529.1	517.7	513.1	513.1	513.1
17.5°	1172.8	1078.9	872.7	655.1	549.8	517.7	501.7	494.8	490.2	492.5	490.2
20°	1225.5	1111.0	836.1	597.9	520.0	494.8	478.7	471.9	469.6	469.6	469.6
22.5°	1285.1	1147.6	790.3	554.3	494.8	471.9	455.8	449.0	444.4	446.7	446.7
25°	1365.2	1193.4	742.2	510.8	469.6	449.0	430.6	421.5	421.5	423.8	426.1
27.5°	1468.3	1248.4	694.1	483.3	446.7	426.1	405.4	396.3	398.6	403.2	403.2
30°	1619.5	1324.0	646.0	453.5	421.5	398.6	380.2	371.1	375.7	384.8	384.8
32.5°	1834.8	1447.7	604.7	419.2	384.8	359.6	341.3	334.4	345.9	364.2	364.2
35°	2219.6	1674.5	579.5	384.8	345.9	316.1	293.2	286.3	302.4	325.3	325.3
37.5°	2735.0	2038.7	588.7	355.1	313.8	279.5	254.3	245.1	256.6	277.2	284.0
40°	3310.0	2478.5	668.9	329.9	284.0	249.7	224.5	215.3	222.2	231.4	233.6
42.5°	3884.9	2945.8	820.1	311.5	261.1	224.5	201.6	194.7	199.3	201.6	203.9
45°	4457.6	3408.5	1010.2	300.1	240.5	203.9	181.0	181.0	183.3	183.3	183.3
47.5°	5000.5	3859.7	1209.5	297.8	222.2	183.3	164.9	167.2	167.2	169.5	169.5
50°	5513.6	4262.9	1411.0	304.7	206.2	164.9	151.2	151.2	151.2	153.5	151.2
52.5°	5941.9	4615.7	1621.8	316.1	190.1	151.2	137.4	137.4	137.4	139.7	137.4
55°	6347.4	4936.3	1837.1	332.1	176.4	139.7	126.0	121.4	121.4	123.7	121.4
57.5°	6677.2	5149.4	2041.0	334.4	164.9	128.3	116.8	110.0	110.0	110.0	110.0
60°	6691.0	5025.7	2100.5	293.2	151.2	116.8	105.4	96.2	98.5	98.5	98.5
62.5°	6253.5	4375.1	1688.2	219.9	135.1	105.4	96.2	87.0	87.0	87.0	87.0
65°	5394.5	3403.9	989.6	174.1	116.8	93.9	84.8	77.9	77.9	77.9	75.6
66°	4991.3	2984.7	758.2	158.1	110.0	91.6	82.5	75.6	73.3	71.0	71.0
67.5°	4333.9	2359.4	474.2	139.7	100.8	84.8	75.6	68.7	66.4	64.1	64.1
70°	3264.2	1498.1	231.4	107.7	87.0	73.3	66.4	59.6	57.3	55.0	52.7
72.5°	2290.6	877.3	121.4	82.5	71.0	64.1	57.3	50.4	48.1	45.8	45.8
75°	1294.2	423.8	80.2	59.6	57.3	52.7	48.1	41.2	38.9	38.9	38.9
77.5°	490.2	146.6	55.0	43.5	45.8	41.2	34.4	34.4	32.1	34.4	32.1
80°	128.3	64.1	34.4	32.1	34.4	29.8	25.2	27.5	27.5	27.5	27.5
82.5°	68.7	36.7	20.6	22.9	20.6	20.6	16.0	18.3	20.6	18.3	20.6
85°	48.1	18.3	11.5	11.5	9.2	9.2	6.9	9.2	11.5	9.2	9.2
87.5°	25.2	6.9	6.9	6.9	6.9	4.6	2.3	0.0	2.3	2.3	2.3
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)