

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: P1210518

Luminaire Tested: **ARCH3-150-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210518
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: ARCH3-150-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1170mA 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: 12837 lumens
Efficiency: N/A
Efficacy: 85.2 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

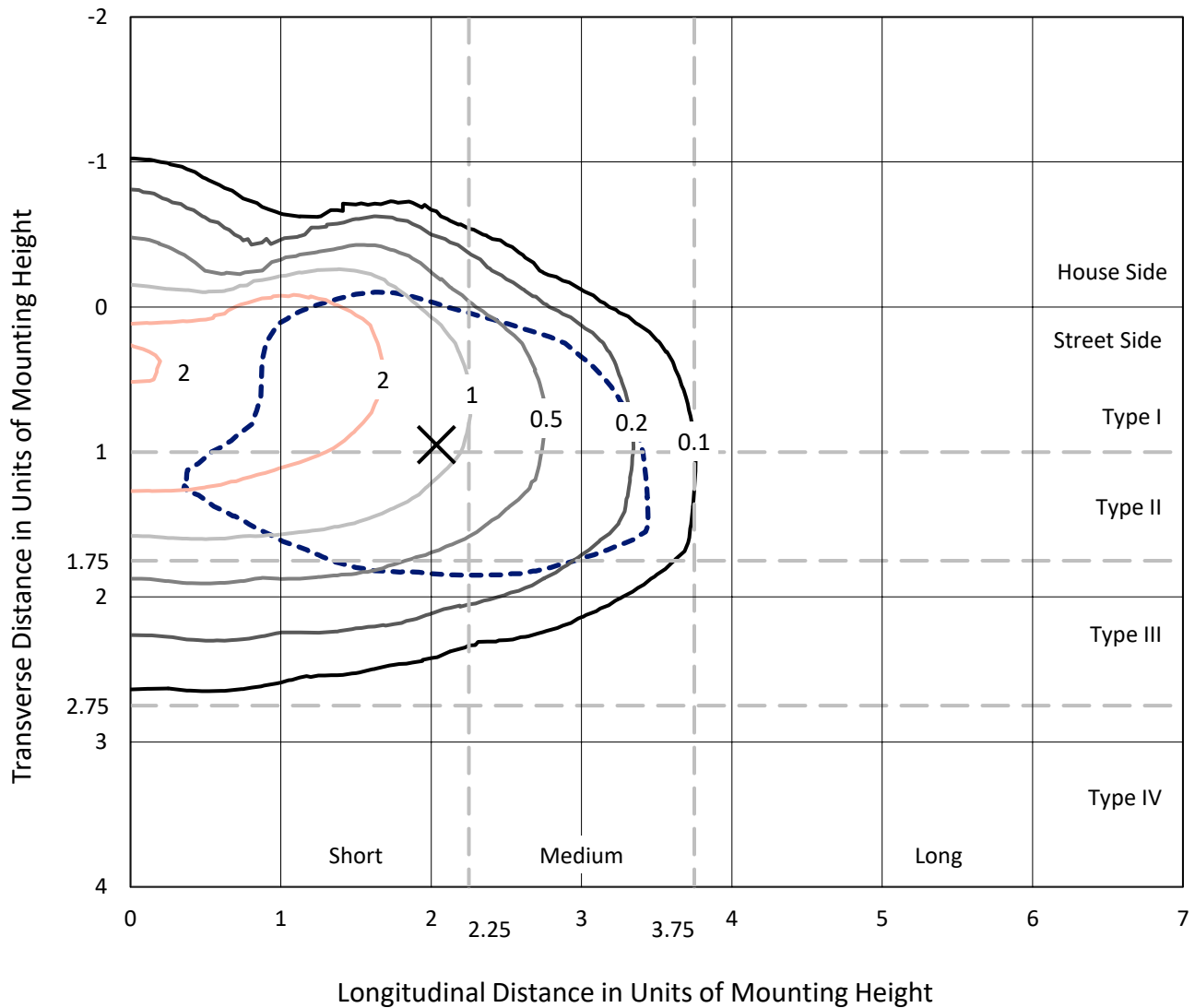
Input Watts (W): 150.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

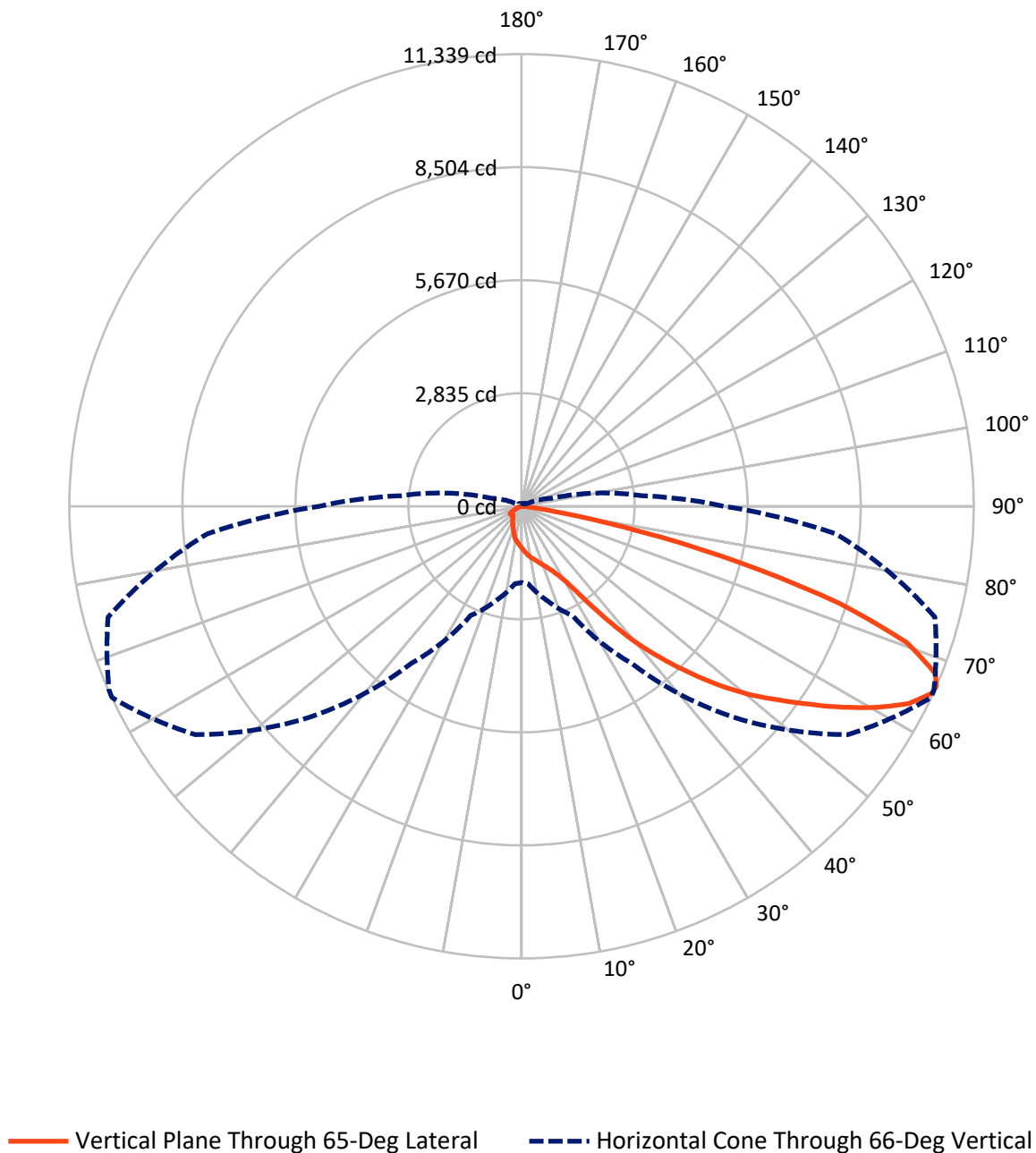


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1515.0	0.0	1515.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	11322.0	0.0	11322.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	12837.0	0.0	12837.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	0.8
10°-20°	293.5	2.3
20°-30°	537.2	4.2
30°-40°	1091.6	8.5
40°-50°	2305.2	18.0
50°-60°	3543.8	27.6
60°-70°	3567.1	27.8
70°-80°	1332.8	10.4
80°-90°	66.6	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°	12837.0	100.0
0°-180°	12837.0	100.0

Coefficient of Utilization



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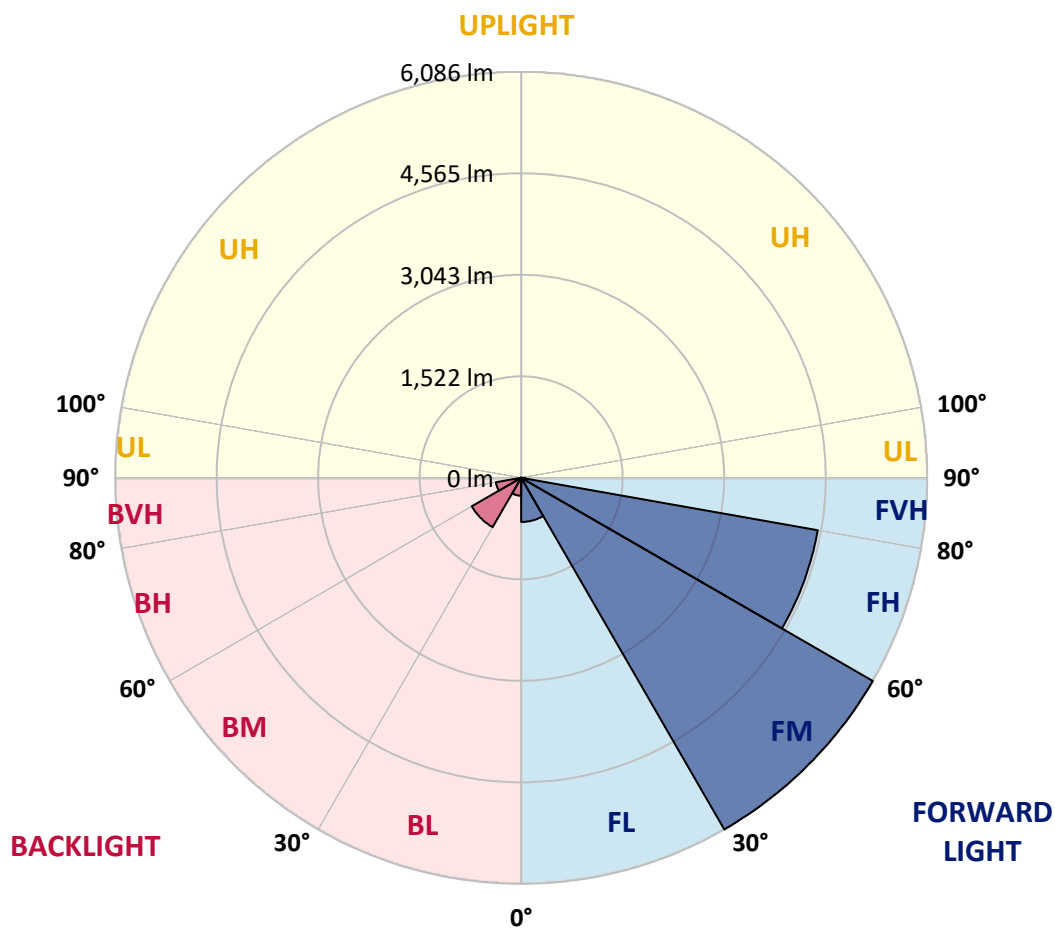
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	661.7	5.2			
FM	(30°-60°)	6086.4	47.4			
FH	(60°-80°)	4515.1	35.2			G2/5000
FVH	(80°-90°)	58.8	0.5			G1/100
BL	(0°-30°)	268.2	2.1	B1/500		
BM	(30°-60°)	854.2	6.7	B1/1000		
BH	(60°-80°)	384.9	3.0	B1/500		G1/500
BVH	(80°-90°)	7.8	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°	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9
2.5°	1192.6	1194.9	1190.3	1181.0	1171.6	1160.0	1141.4	1111.1	1106.4	1085.5	1062.2
5°	1274.1	1278.8	1271.8	1269.5	1264.8	1248.5	1222.9	1178.6	1174.0	1132.0	1078.5
7.5°	1302.1	1309.1	1304.4	1304.4	1304.4	1297.4	1285.8	1246.2	1239.2	1185.6	1104.1
10°	1323.0	1327.7	1325.4	1334.7	1341.7	1337.0	1330.0	1306.7	1299.7	1246.2	1139.0
12.5°	1355.7	1358.0	1360.3	1365.0	1376.6	1381.3	1378.9	1358.0	1353.3	1316.1	1183.3
15°	1385.9	1385.9	1388.3	1409.2	1425.5	1434.8	1437.2	1420.9	1416.2	1385.9	1239.2
17.5°	1413.9	1416.2	1423.2	1446.5	1474.4	1493.1	1504.7	1497.7	1490.8	1467.5	1304.4
20°	1455.8	1460.5	1467.5	1500.1	1528.0	1558.3	1581.6	1579.3	1576.9	1560.6	1381.3
22.5°	1528.0	1532.7	1544.3	1574.6	1602.6	1639.8	1679.4	1677.1	1670.1	1658.5	1472.1
25°	1637.5	1637.5	1644.5	1670.1	1705.0	1749.3	1786.6	1793.6	1786.6	1779.6	1586.3
27.5°	1774.9	1777.3	1777.3	1805.2	1837.8	1893.7	1940.3	1947.3	1947.3	1940.3	1740.0
30°	1965.9	1958.9	1954.3	1977.6	2012.5	2094.0	2175.6	2189.5	2182.6	2194.2	1956.6
32.5°	2294.4	2282.7	2243.1	2247.8	2268.7	2380.5	2518.0	2566.9	2564.6	2585.5	2306.0
35°	2748.6	2725.3	2667.0	2618.1	2615.8	2736.9	2946.6	3130.6	3128.2	3200.5	2837.1
37.5°	3261.0	3291.3	3181.8	3098.0	3072.3	3167.8	3438.0	3836.4	3857.3	3983.1	3533.5
40°	3945.8	3964.5	3824.7	3705.9	3584.8	3619.7	3976.1	4595.7	4633.0	4772.7	4230.0
42.5°	4542.1	4560.8	4479.2	4334.8	4181.1	4115.9	4518.8	5285.2	5315.5	5508.8	4947.4
45°	4947.4	4961.4	4989.4	5003.3	4828.6	4693.5	5182.7	5993.3	6030.5	6254.2	5648.5
47.5°	5264.2	5275.9	5331.8	5471.5	5436.6	5329.4	5858.2	6729.3	6738.7	6987.9	6331.0
50°	5411.0	5438.9	5576.3	5790.6	5944.4	5974.6	6591.9	7425.8	7451.4	7689.0	6976.2
52.5°	5247.9	5257.2	5604.3	6007.3	6317.1	6624.5	7328.0	8071.0	8145.6	8322.6	7556.2
55°	4698.2	4765.7	5292.2	6000.3	6610.5	7241.8	8115.3	8767.5	8835.0	8946.8	8066.4
57.5°	4060.0	4134.5	4775.1	5699.8	6736.3	7812.5	8844.3	9508.2	9554.8	9585.1	8534.5
60°	3507.9	3577.8	4237.0	5124.5	6610.5	8215.4	9522.2	10244.2	10283.8	10202.3	8769.8
62.5°	2830.1	2900.0	3563.8	4362.8	6116.7	8297.0	10025.3	10898.8	10915.1	10693.8	8625.4
65°	2133.6	2180.2	2734.6	3419.4	5252.6	7863.7	10139.4	11306.4	11290.1	10835.9	8192.1
66°	1912.4	1952.0	2441.1	3023.4	4803.0	7467.7	9985.7	11339.0	11322.7	10731.1	7908.0
67.5°	1649.1	1660.8	2063.8	2473.7	4018.0	6626.8	9517.5	11189.9	11203.9	10442.2	7388.5
70°	1288.1	1285.8	1518.7	1721.4	2743.9	4714.5	7938.2	10251.2	10318.8	9352.1	6300.7
72.5°	824.6	796.6	931.7	1052.8	1597.9	2736.9	5788.3	8355.2	8469.3	7346.6	4693.5
75°	491.5	463.5	496.1	526.4	766.3	1316.1	3403.1	5685.8	5795.3	4709.8	2792.8
77.5°	368.0	356.4	358.7	333.1	340.1	493.8	1553.6	3004.8	3084.0	1928.7	1059.8
80°	281.8	251.6	235.3	246.9	223.6	195.7	577.7	1034.2	1083.1	456.5	221.3
82.5°	188.7	163.1	151.4	165.4	142.1	109.5	139.8	200.3	195.7	123.5	86.2
85°	97.8	83.9	83.9	83.9	72.2	53.6	60.6	81.5	81.5	65.2	51.2
87.5°	28.0	25.6	30.3	28.0	21.0	21.0	23.3	28.0	28.0	25.6	23.3
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°	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9	1045.9
2.5°	1043.5	1034.2	1008.6	990.0	971.3	955.0	936.4	931.7	922.4	924.7	920.1
5°	1050.5	1024.9	980.6	938.7	906.1	878.1	843.2	829.2	810.6	803.6	798.9
7.5°	1059.8	1022.6	957.3	899.1	843.2	787.3	731.4	698.8	677.8	668.5	661.5
10°	1080.8	1031.9	945.7	854.9	759.4	680.2	624.3	601.0	587.0	584.7	582.3
12.5°	1108.7	1045.9	934.0	798.9	673.2	598.6	563.7	556.7	554.4	554.4	552.0
15°	1150.7	1069.1	915.4	733.7	605.6	554.4	538.1	526.4	521.8	521.8	521.8
17.5°	1192.6	1097.1	887.5	666.2	559.0	526.4	510.1	503.1	498.5	500.8	498.5
20°	1246.2	1129.7	850.2	607.9	528.8	503.1	486.8	479.8	477.5	477.5	477.5
22.5°	1306.7	1167.0	803.6	563.7	503.1	479.8	463.5	456.5	451.9	454.2	454.2
25°	1388.3	1213.6	754.7	519.4	477.5	456.5	437.9	428.6	428.6	430.9	433.2
27.5°	1493.1	1269.5	705.8	491.5	454.2	433.2	412.3	403.0	405.3	410.0	410.0
30°	1646.8	1346.3	656.9	461.2	428.6	405.3	386.7	377.3	382.0	391.3	391.3
32.5°	1865.8	1472.1	614.9	426.3	391.3	365.7	347.1	340.1	351.7	370.4	370.4
35°	2257.1	1702.7	589.3	391.3	351.7	321.4	298.2	291.2	307.5	330.8	330.8
37.5°	2781.2	2073.1	598.6	361.0	319.1	284.2	258.6	249.2	260.9	281.8	288.8
40°	3365.8	2520.3	680.2	335.4	288.8	253.9	228.3	219.0	225.9	235.3	237.6
42.5°	3950.5	2995.5	833.9	316.8	265.5	228.3	205.0	198.0	202.6	205.0	207.3
45°	4532.8	3466.0	1027.2	305.1	244.6	207.3	184.0	184.0	186.3	186.3	186.3
47.5°	5084.9	3924.9	1229.9	302.8	225.9	186.3	167.7	170.0	170.0	172.4	172.4
50°	5606.6	4334.8	1434.8	309.8	209.6	167.7	153.7	153.7	153.7	156.1	153.7
52.5°	6042.2	4693.5	1649.1	321.4	193.3	153.7	139.8	139.8	139.8	142.1	139.8
55°	6454.5	5019.6	1868.1	337.7	179.4	142.1	128.1	123.5	123.5	125.8	123.5
57.5°	6789.9	5236.3	2075.4	340.1	167.7	130.4	118.8	111.8	111.8	111.8	111.8
60°	6803.9	5110.5	2136.0	298.2	153.7	118.8	107.1	97.8	100.2	100.2	100.2
62.5°	6359.0	4449.0	1716.7	223.6	137.4	107.1	97.8	88.5	88.5	88.5	88.5
65°	5485.5	3461.3	1006.3	177.0	118.8	95.5	86.2	79.2	79.2	79.2	76.9
66°	5075.5	3035.1	771.0	160.7	111.8	93.2	83.9	76.9	74.5	72.2	72.2
67.5°	4407.0	2399.2	482.2	142.1	102.5	86.2	76.9	69.9	67.5	65.2	65.2
70°	3319.2	1523.4	235.3	109.5	88.5	74.5	67.5	60.6	58.2	55.9	53.6
72.5°	2329.3	892.1	123.5	83.9	72.2	65.2	58.2	51.2	48.9	46.6	46.6
75°	1316.1	430.9	81.5	60.6	58.2	53.6	48.9	41.9	39.6	39.6	39.6
77.5°	498.5	149.1	55.9	44.3	46.6	41.9	34.9	34.9	32.6	34.9	32.6
80°	130.4	65.2	34.9	32.6	34.9	30.3	25.6	28.0	28.0	28.0	28.0
82.5°	69.9	37.3	21.0	23.3	21.0	21.0	16.3	18.6	21.0	18.6	21.0
85°	48.9	18.6	11.6	11.6	9.3	9.3	7.0	9.3	11.6	9.3	9.3
87.5°	25.6	7.0	7.0	7.0	7.0	4.7	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)