

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: P1210804

Luminaire Tested: **ARCH3-80-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-80-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7980 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 81.9
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



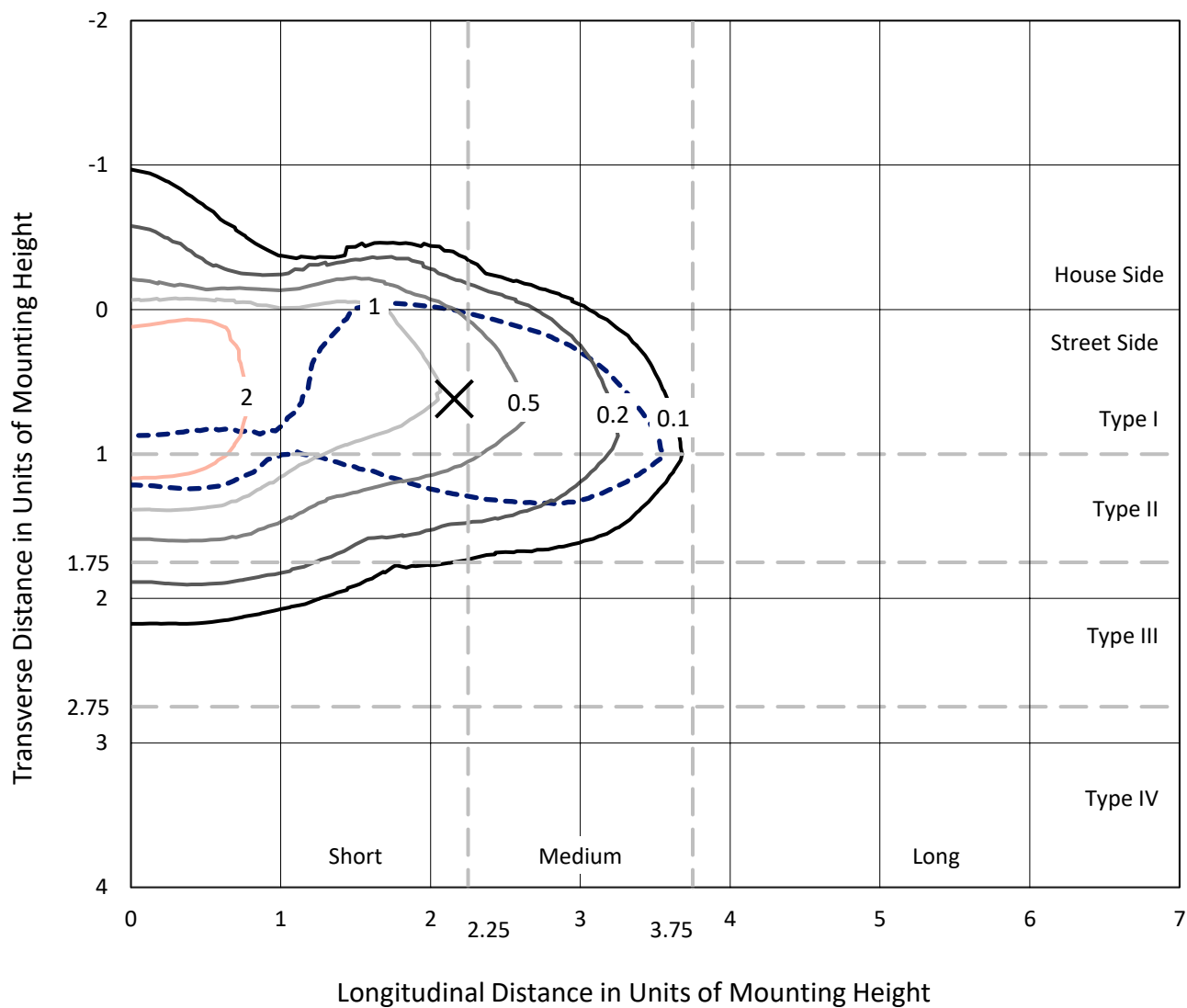
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Iso-Footcandle Lines of Horizontal Illumination

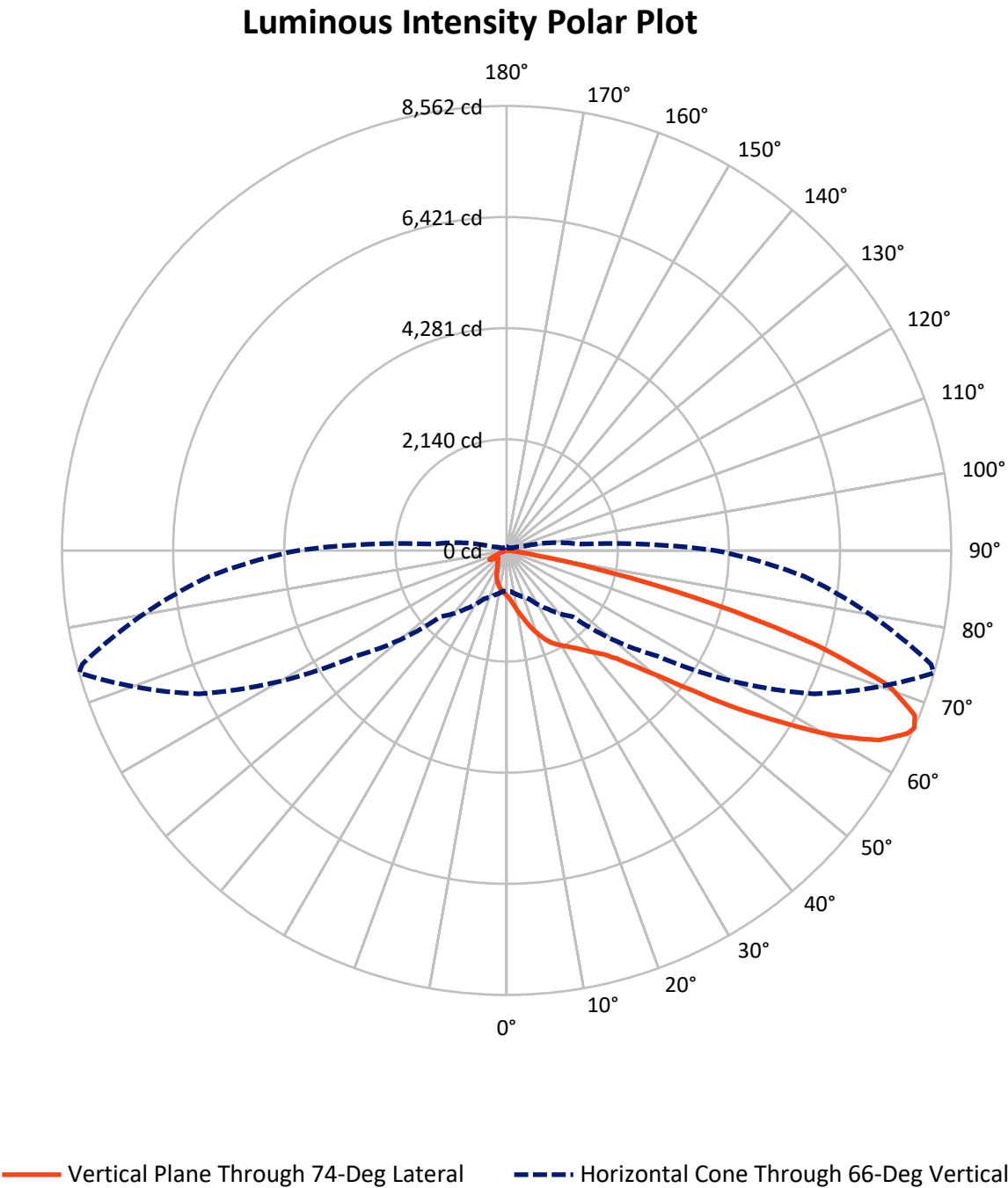
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	782.3	0.0	782.3
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	7197.7	0.0	7197.7
	% Fixture	90.2	0.0	90.2
Total	Lumens	7980.0	0.0	7980.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.0	1.1
10°-20°	272.6	3.4
20°-30°	520.2	6.5
30°-40°	911.8	11.4
40°-50°	1563.4	19.6
50°-60°	2033.4	25.5
60°-70°	1840.7	23.1
70°-80°	710.2	8.9
80°-90°	42.7	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°	7980.0	100.0
0°-180°	7980.0	100.0

Coefficient of Utilization



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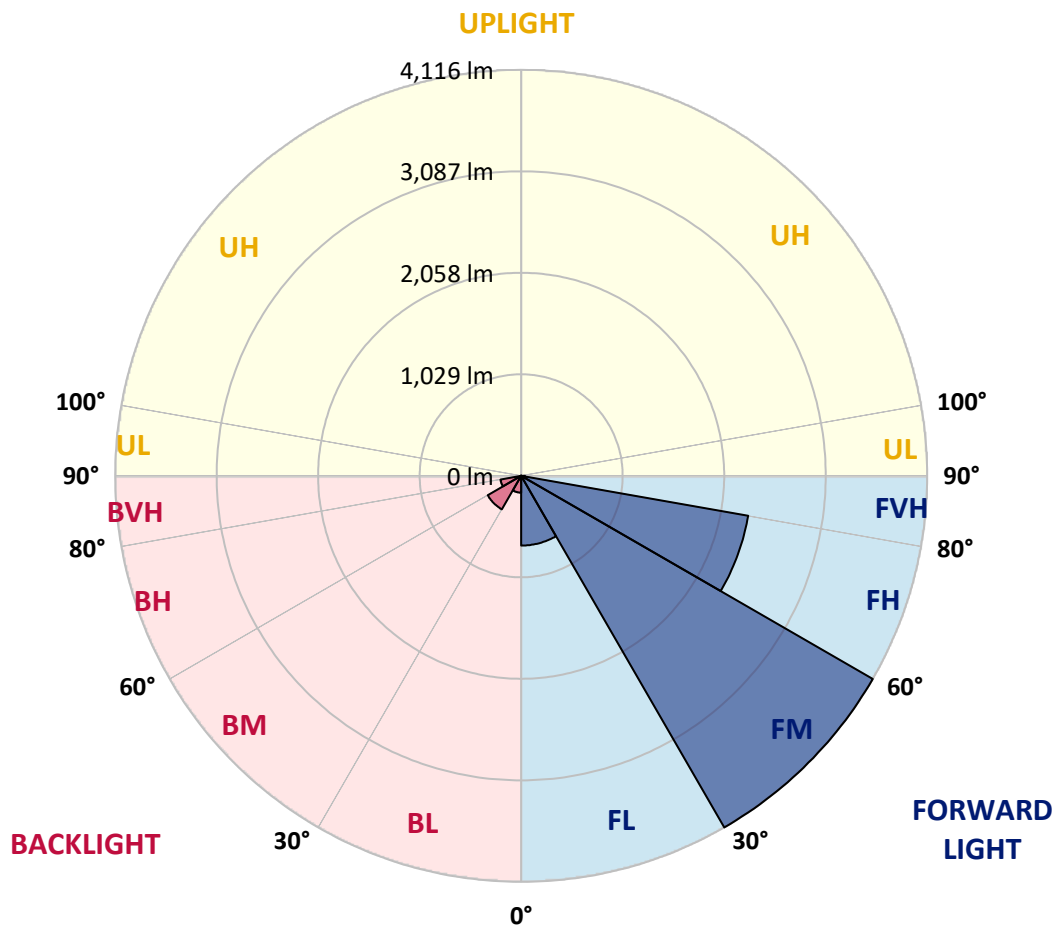
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	707.1	8.9			
FM	(30°-60°)	4116.5	51.6			
FH	(60°-80°)	2337.1	29.3			G2/5000
FVH	(80°-90°)	37.0	0.5			G1/100
BL	(0°-30°)	170.6	2.1	B1/500		
BM	(30°-60°)	392.1	4.9	B1/1000		
BH	(60°-80°)	213.9	2.7	B1/500		G1/500
BVH	(80°-90°)	5.7	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1
2.5°	1045.9	1037.3	1021.5	1020.1	1007.2	991.4	964.2	935.6	915.5	912.6	888.3
5°	1252.2	1247.9	1232.1	1222.1	1197.7	1160.5	1097.5	1034.4	981.4	975.7	921.2
7.5°	1306.6	1309.5	1312.4	1322.4	1313.8	1296.6	1249.3	1160.5	1077.4	1064.5	969.9
10°	1315.2	1312.4	1312.4	1325.3	1349.6	1374.0	1368.2	1292.3	1184.8	1169.1	1037.3
12.5°	1408.4	1412.6	1402.6	1396.9	1392.6	1405.5	1448.5	1415.5	1298.0	1285.1	1118.9
15°	1528.7	1527.3	1512.9	1512.9	1500.0	1478.6	1505.8	1530.1	1434.1	1418.4	1212.1
17.5°	1616.1	1621.8	1620.4	1629.0	1624.7	1596.0	1581.7	1631.9	1574.5	1554.5	1318.1
20°	1686.3	1702.1	1707.8	1735.0	1747.9	1727.8	1690.6	1722.1	1709.2	1690.6	1425.5
22.5°	1760.8	1773.7	1783.7	1831.0	1866.8	1862.5	1815.2	1808.1	1839.6	1822.4	1531.6
25°	1835.3	1841.0	1871.1	1928.4	1985.7	2000.1	1951.3	1895.5	1957.1	1941.3	1626.1
27.5°	1917.0	1919.8	1955.6	2025.8	2106.1	2136.2	2097.5	1994.3	2047.3	2047.3	1712.1
30°	2066.0	2094.6	2108.9	2172.0	2242.2	2283.7	2237.9	2098.9	2127.6	2140.5	1802.3
32.5°	2386.9	2391.2	2386.9	2414.1	2428.4	2452.8	2399.8	2216.4	2209.2	2223.6	1891.2
35°	2876.9	2859.7	2813.8	2773.7	2690.6	2644.8	2576.0	2366.8	2309.5	2329.6	1978.6
37.5°	3471.4	3447.1	3342.5	3219.3	3041.6	2858.3	2772.3	2550.2	2437.0	2462.8	2073.1
40°	4038.8	4023.0	3898.4	3746.5	3442.8	3129.0	2947.1	2705.0	2578.9	2588.9	2169.1
42.5°	4505.9	4503.0	4398.4	4239.4	3849.7	3421.3	3153.4	2856.8	2727.9	2743.6	2269.4
45°	4859.7	4832.5	4755.2	4640.5	4243.7	3725.0	3402.7	3087.5	2967.1	2985.8	2419.8
47.5°	4859.7	4864.0	4914.2	4902.7	4518.8	4010.1	3674.9	3378.3	3321.0	3338.2	2667.7
50°	4464.3	4504.4	4727.9	4915.6	4662.0	4232.2	3968.6	3742.2	3801.0	3826.8	3100.4
52.5°	3682.1	3749.4	4137.7	4566.0	4556.0	4344.0	4272.3	4205.0	4468.6	4514.5	3739.4
55°	2798.1	2842.5	3348.2	3911.3	4094.7	4252.3	4537.4	4792.4	5352.6	5342.6	4388.4
57.5°	2090.3	2131.9	2567.4	3192.1	3434.2	3855.4	4673.5	5464.3	6229.4	6268.1	4997.3
60°	1537.3	1568.8	1939.9	2452.8	2802.4	3247.9	4619.0	6126.3	7239.5	7195.1	5534.5
62.5°	1137.6	1154.8	1422.7	1756.5	2220.7	2646.2	4276.6	6579.0	8046.1	7955.8	5834.0
65°	879.7	885.4	1024.4	1202.0	1614.7	2057.4	3766.6	6647.8	8491.7	8395.7	5828.3
66°	783.7	788.0	889.7	1027.3	1374.0	1800.9	3543.1	6537.4	8561.9	8460.1	5756.6
67.5°	657.6	654.7	714.9	805.2	1031.5	1389.7	3146.2	6215.1	8478.8	8427.2	5527.4
70°	487.1	488.6	518.6	540.1	603.2	769.4	2272.3	5391.3	7814.0	7811.1	4898.4
72.5°	361.0	365.3	388.3	392.6	376.8	416.9	1309.5	4288.1	6250.9	6252.3	3662.0
75°	270.8	277.9	285.1	288.0	273.6	263.6	591.7	2885.5	4111.9	4081.8	2073.1
77.5°	206.3	209.2	214.9	210.6	207.7	182.0	246.4	1406.9	2030.1	1849.6	671.9
80°	150.4	150.4	156.2	150.4	149.0	130.4	134.7	451.3	596.0	495.7	144.7
82.5°	94.6	93.1	97.4	96.0	93.1	83.1	78.8	126.1	137.5	123.2	70.2
85°	53.0	51.6	50.1	48.7	44.4	37.3	43.0	47.3	63.0	64.5	50.1
87.5°	18.6	18.6	17.2	15.8	12.9	12.9	15.8	15.8	22.9	22.9	25.8
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°	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1	871.1
2.5°	876.8	861.1	838.1	808.0	786.6	765.1	742.1	729.2	710.6	706.3	712.1
5°	892.6	863.9	806.6	743.6	689.1	640.4	594.6	567.4	540.1	530.1	534.4
7.5°	925.5	876.8	779.4	677.7	587.4	514.3	459.9	428.4	404.0	394.0	396.9
10°	974.2	899.7	753.6	603.2	487.1	409.8	363.9	343.8	329.5	323.8	325.2
12.5°	1033.0	932.7	720.7	528.7	401.2	333.8	312.3	308.0	305.2	302.3	303.7
15°	1098.9	961.3	682.0	455.6	333.8	296.6	289.4	288.0	286.5	286.5	286.5
17.5°	1167.7	987.1	639.0	386.8	290.8	273.6	269.3	269.3	269.3	270.8	270.8
20°	1232.1	1007.2	588.8	325.2	266.5	252.2	249.3	249.3	250.7	252.2	252.2
22.5°	1295.2	1015.8	530.1	282.2	246.4	233.5	229.2	229.2	229.2	230.7	230.7
25°	1349.6	1015.8	471.4	255.0	229.2	216.3	210.6	209.2	210.6	210.6	210.6
27.5°	1395.5	1011.5	414.1	236.4	212.0	199.1	193.4	192.0	194.8	196.3	196.3
30°	1444.2	1005.8	368.2	219.2	197.7	184.8	179.1	179.1	183.4	189.1	189.1
32.5°	1491.4	1010.1	332.4	204.9	183.4	173.4	167.6	169.1	177.7	186.3	186.3
35°	1541.6	1018.7	310.9	194.8	173.4	163.3	159.0	163.3	171.9	180.5	180.5
37.5°	1591.7	1028.7	298.0	186.3	164.8	154.7	151.9	157.6	167.6	176.2	177.7
40°	1644.7	1037.3	283.7	177.7	159.0	147.6	146.1	151.9	164.8	173.4	174.8
42.5°	1710.7	1054.5	266.5	170.5	153.3	139.0	140.4	144.7	157.6	170.5	171.9
45°	1839.6	1108.9	249.3	163.3	146.1	134.7	131.8	134.7	149.0	163.3	166.2
47.5°	2081.7	1232.1	230.7	156.2	139.0	131.8	120.3	123.2	136.1	151.9	153.3
50°	2545.9	1494.3	220.6	149.0	133.2	121.8	108.9	108.9	118.9	133.2	133.2
52.5°	3269.4	1964.2	226.4	143.3	126.1	111.8	98.9	97.4	103.2	113.2	113.2
55°	4050.3	2480.0	247.9	137.5	117.5	106.0	91.7	84.5	88.8	94.6	94.6
57.5°	4669.2	2739.3	306.6	134.7	107.5	101.7	83.1	73.1	77.4	83.1	83.1
60°	4941.4	2587.5	372.5	137.5	100.3	94.6	74.5	64.5	71.6	77.4	78.8
62.5°	4720.8	2130.4	399.7	130.4	90.3	84.5	73.1	60.2	68.8	73.1	74.5
65°	4243.7	1619.0	312.3	113.2	83.1	73.1	65.9	57.3	64.5	68.8	68.8
66°	4017.3	1411.2	266.5	104.6	80.2	68.8	63.0	57.3	63.0	65.9	67.3
67.5°	3666.3	1113.2	197.7	91.7	74.5	63.0	58.7	54.4	60.2	63.0	63.0
70°	2866.8	663.3	118.9	71.6	64.5	55.9	53.0	50.1	54.4	55.9	55.9
72.5°	1795.2	315.2	75.9	53.0	54.4	53.0	44.4	47.3	48.7	50.1	50.1
75°	869.7	124.6	51.6	38.7	44.4	50.1	35.8	41.5	43.0	45.8	44.4
77.5°	242.1	60.2	33.0	28.7	38.7	38.7	27.2	33.0	38.7	48.7	44.4
80°	70.2	38.7	21.5	21.5	27.2	27.2	18.6	22.9	25.8	28.7	30.1
82.5°	48.7	25.8	14.3	15.8	15.8	17.2	11.5	11.5	14.3	14.3	15.8
85°	38.7	11.5	8.6	10.0	7.2	8.6	5.7	5.7	7.2	5.7	5.7
87.5°	15.8	5.7	5.7	5.7	4.3	4.3	2.9	1.4	1.4	1.4	1.4
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)