

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: P1210846

Luminaire Tested: **ARCH3-90-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210846
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: ARCH3-90-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 735mA 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: 10059 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

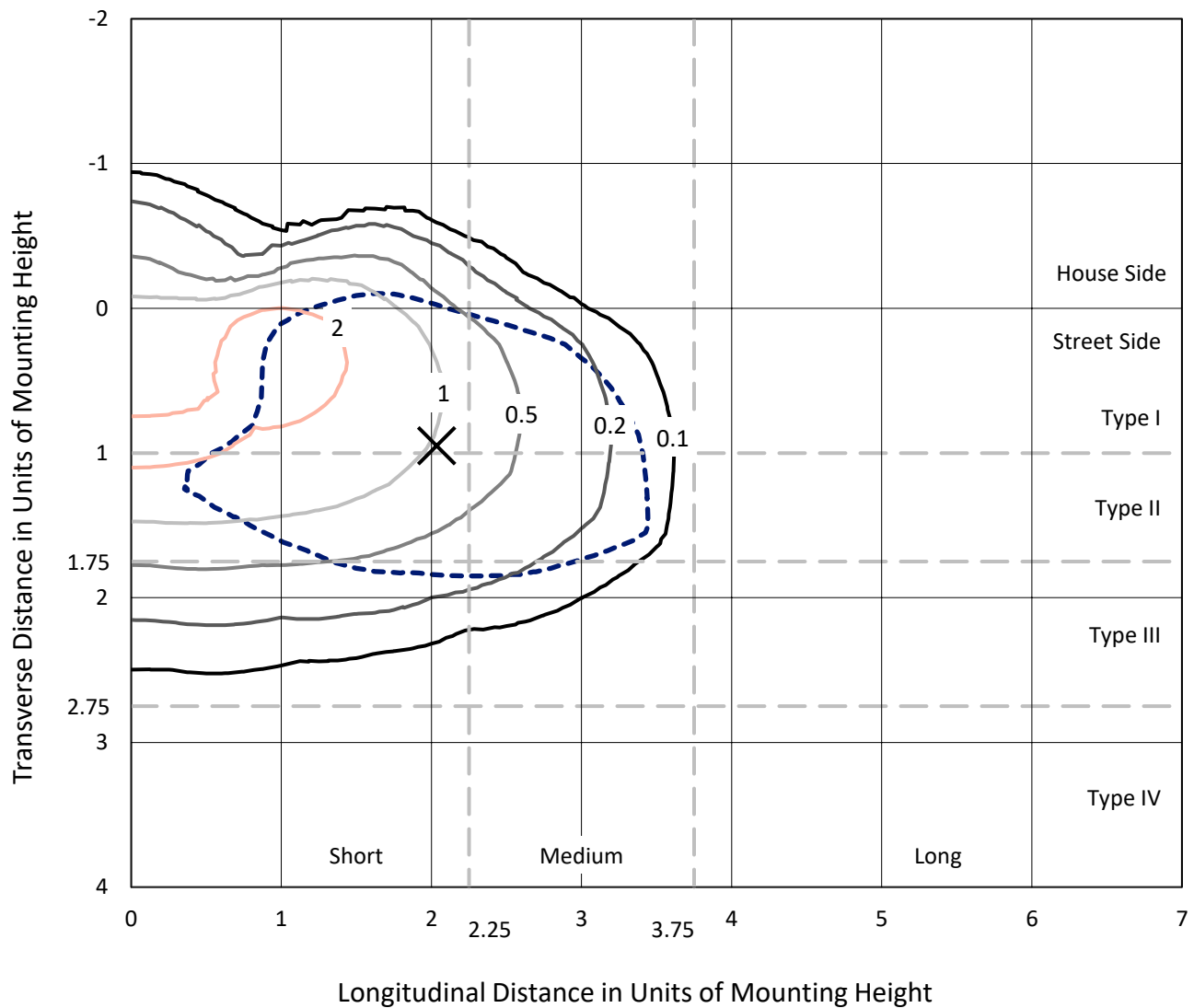
Input Watts (W): 93.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

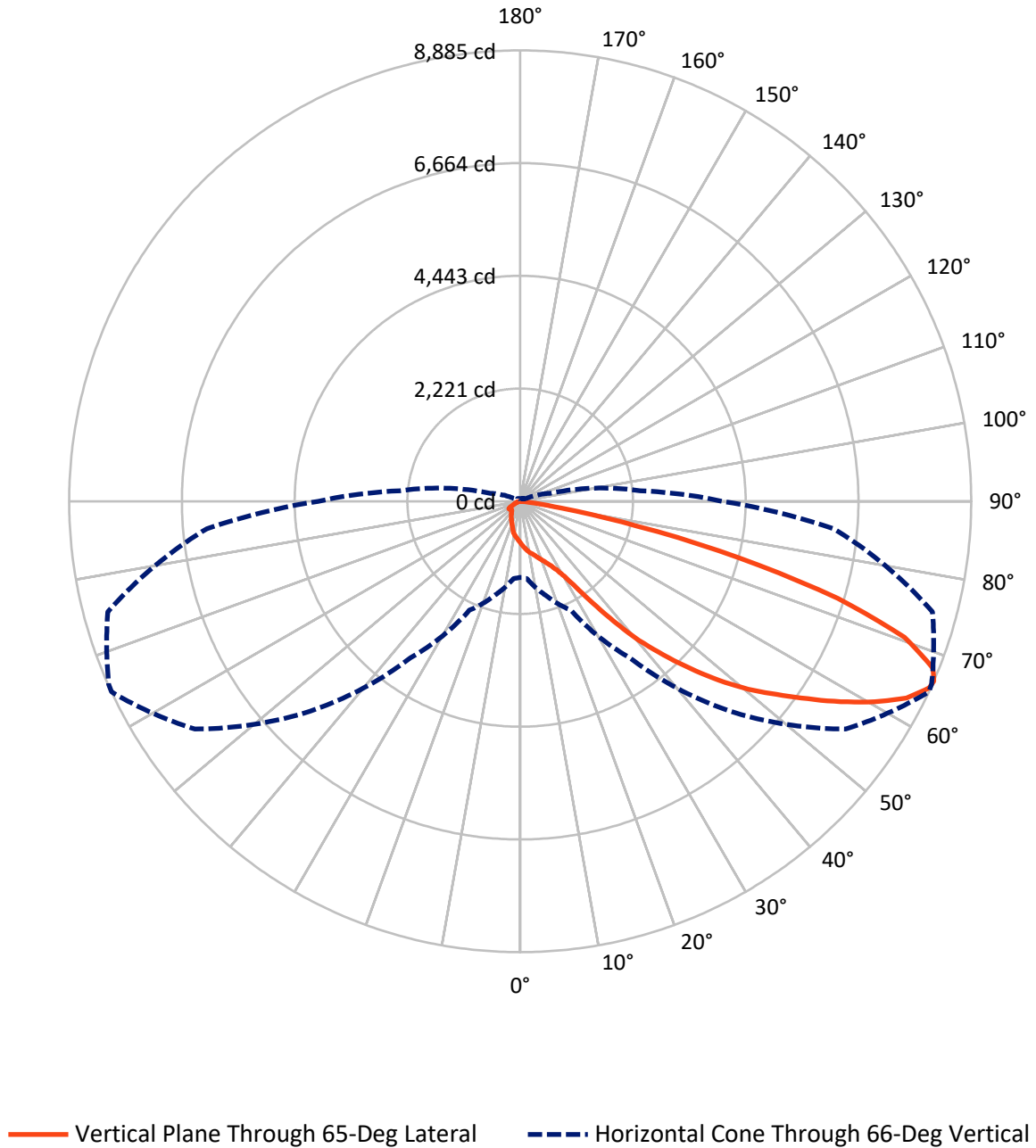
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	1187.2	0.0	1187.2
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	8871.8	0.0	8871.8
	% Fixture	88.2	0.0	88.2
Total	Lumens	10059.0	0.0	10059.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	0.8
10°-20°	230.0	2.3
20°-30°	421.0	4.2
30°-40°	855.4	8.5
40°-50°	1806.3	18.0
50°-60°	2776.9	27.6
60°-70°	2795.2	27.8
70°-80°	1044.4	10.4
80°-90°	52.2	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°	10059.0	100.0
0°-180°	10059.0	100.0

Coefficient of Utilization



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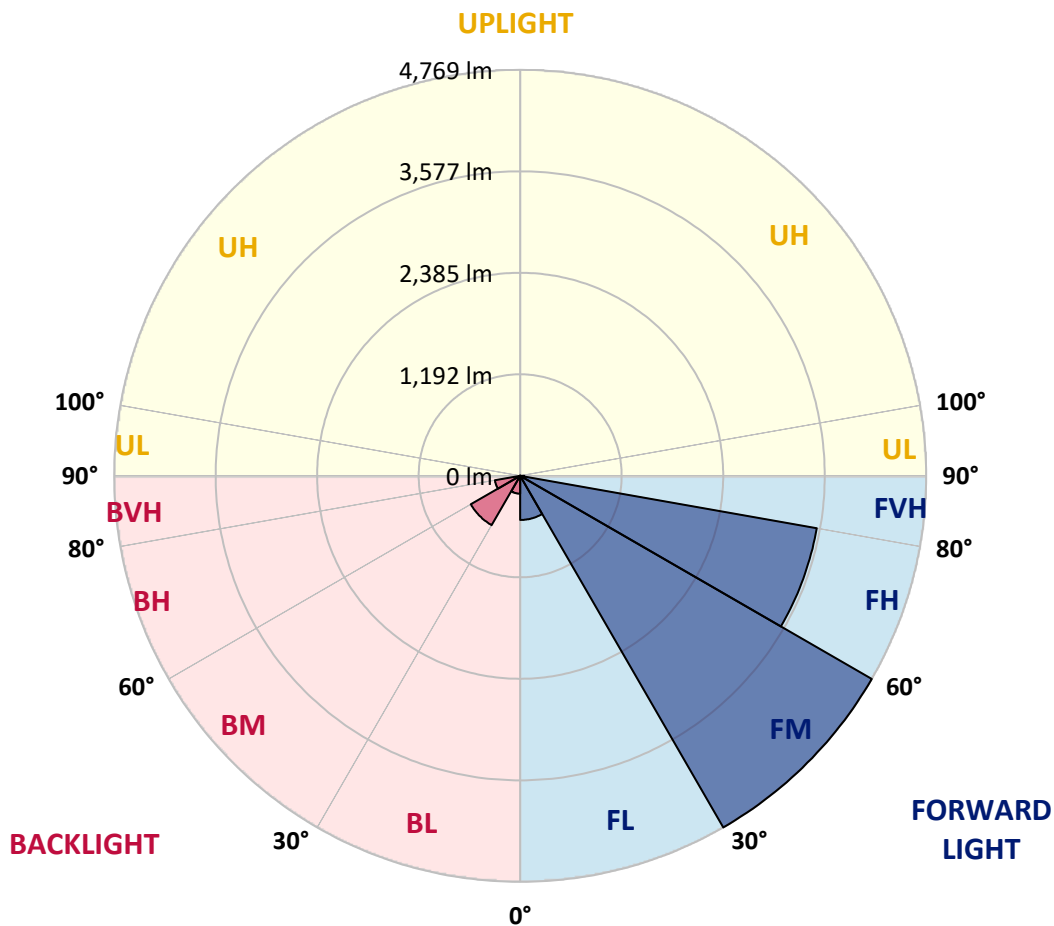
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	518.5	5.2			
FM	(30°-60°)	4769.3	47.4			
FH	(60°-80°)	3538.0	35.2			G2/5000
FVH	(80°-90°)	46.0	0.5			G1/100
BL	(0°-30°)	210.1	2.1	B1/500		
BM	(30°-60°)	669.3	6.7	B1/1000		
BH	(60°-80°)	301.6	3.0	B1/500		G1/500
BVH	(80°-90°)	6.1	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°	819.5	819.5	819.5	819.5	819.5	819.5	819.5	819.5	819.5	819.5	819.5
2.5°	934.5	936.3	932.7	925.4	918.1	909.0	894.4	870.6	867.0	850.6	832.3
5°	998.4	1002.0	996.6	994.7	991.1	978.3	958.2	923.6	919.9	887.1	845.1
7.5°	1020.3	1025.8	1022.1	1022.1	1022.1	1016.6	1007.5	976.5	971.0	929.0	865.2
10°	1036.7	1040.4	1038.6	1045.9	1051.3	1047.7	1042.2	1024.0	1018.5	976.5	892.5
12.5°	1062.3	1064.1	1065.9	1069.6	1078.7	1082.4	1080.5	1064.1	1060.5	1031.3	927.2
15°	1086.0	1086.0	1087.8	1104.3	1117.0	1124.3	1126.2	1113.4	1109.7	1086.0	971.0
17.5°	1107.9	1109.7	1115.2	1133.5	1155.4	1170.0	1179.1	1173.6	1168.1	1149.9	1022.1
20°	1140.8	1144.4	1149.9	1175.4	1197.3	1221.1	1239.3	1237.5	1235.7	1222.9	1082.4
22.5°	1197.3	1201.0	1210.1	1233.9	1255.8	1285.0	1316.0	1314.2	1308.7	1299.6	1153.5
25°	1283.1	1283.1	1288.6	1308.7	1336.1	1370.7	1399.9	1405.4	1399.9	1394.5	1243.0
27.5°	1390.8	1392.6	1392.6	1414.5	1440.1	1483.9	1520.4	1525.9	1525.9	1520.4	1363.4
30°	1540.5	1535.0	1531.4	1549.6	1577.0	1640.9	1704.8	1715.7	1710.2	1719.4	1533.2
32.5°	1797.8	1788.7	1757.7	1761.3	1777.8	1865.4	1973.1	2011.4	2009.6	2026.0	1807.0
35°	2153.8	2135.5	2089.9	2051.6	2049.7	2144.6	2308.9	2453.1	2451.3	2507.9	2223.1
37.5°	2555.3	2579.0	2493.3	2427.5	2407.5	2482.3	2694.0	3006.1	3022.6	3121.1	2768.9
40°	3091.9	3106.5	2997.0	2903.9	2809.0	2836.4	3115.7	3601.2	3630.4	3739.9	3314.6
42.5°	3559.2	3573.8	3509.9	3396.7	3276.3	3225.2	3540.9	4141.4	4165.2	4316.7	3876.8
45°	3876.8	3887.7	3909.6	3920.6	3783.7	3677.8	4061.1	4696.3	4725.5	4900.7	4426.2
47.5°	4125.0	4134.1	4177.9	4287.5	4260.1	4176.1	4590.4	5273.1	5280.4	5475.7	4961.0
50°	4240.0	4261.9	4369.6	4537.5	4658.0	4681.7	5165.4	5818.8	5838.9	6025.1	5466.5
52.5°	4112.2	4119.5	4391.5	4707.3	4950.0	5190.9	5742.2	6324.4	6382.8	6521.5	5921.0
55°	3681.5	3734.4	4146.9	4701.8	5180.0	5674.6	6359.1	6870.1	6923.1	7010.7	6320.8
57.5°	3181.4	3239.8	3741.7	4466.3	5278.5	6121.8	6930.4	7450.6	7487.1	7510.8	6687.6
60°	2748.8	2803.5	3320.1	4015.5	5180.0	6437.6	7461.5	8027.3	8058.4	7994.5	6872.0
62.5°	2217.6	2272.4	2792.6	3418.6	4793.0	6501.4	7855.8	8540.2	8553.0	8379.6	6758.8
65°	1671.9	1708.4	2142.8	2679.4	4115.9	6162.0	7945.2	8859.6	8846.9	8490.9	6419.3
66°	1498.5	1529.5	1912.8	2369.1	3763.6	5851.7	7824.7	8885.2	8872.4	8408.8	6196.6
67.5°	1292.3	1301.4	1617.1	1938.4	3148.5	5192.8	7457.9	8768.4	8779.3	8182.5	5789.6
70°	1009.3	1007.5	1190.0	1348.8	2150.1	3694.3	6220.4	8032.8	8085.7	7328.3	4937.2
72.5°	646.1	624.2	730.1	825.0	1252.1	2144.6	4535.7	6547.1	6636.5	5756.8	3677.8
75°	385.1	363.2	388.8	412.5	600.5	1031.3	2666.7	4455.4	4541.2	3690.6	2188.4
77.5°	288.4	279.3	281.1	261.0	266.5	386.9	1217.4	2354.5	2416.6	1511.3	830.5
80°	220.9	197.1	184.3	193.5	175.2	153.3	452.7	810.4	848.7	357.7	173.4
82.5°	147.8	127.8	118.6	129.6	111.3	85.8	109.5	157.0	153.3	96.7	67.5
85°	76.7	65.7	65.7	65.7	56.6	42.0	47.5	63.9	63.9	51.1	40.2
87.5°	21.9	20.1	23.7	21.9	16.4	16.4	18.3	21.9	21.9	20.1	18.3
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°	819.5	819.5	819.5	819.5	819.5	819.5	819.5	819.5	819.5	819.5	819.5
2.5°	817.7	810.4	790.3	775.7	761.1	748.3	733.7	730.1	722.8	724.6	721.0
5°	823.2	803.1	768.4	735.6	710.0	688.1	660.7	649.8	635.2	629.7	626.1
7.5°	830.5	801.3	750.2	704.5	660.7	616.9	573.1	547.6	531.1	523.8	518.4
10°	846.9	808.6	741.0	669.9	595.0	533.0	489.2	470.9	460.0	458.1	456.3
12.5°	868.8	819.5	731.9	626.1	527.5	469.1	441.7	436.2	434.4	434.4	432.6
15°	901.7	837.8	717.3	574.9	474.6	434.4	421.6	412.5	408.9	408.9	408.9
17.5°	934.5	859.7	695.4	522.0	438.1	412.5	399.7	394.2	390.6	392.4	390.6
20°	976.5	885.2	666.2	476.4	414.3	394.2	381.5	376.0	374.2	374.2	374.2
22.5°	1024.0	914.4	629.7	441.7	394.2	376.0	363.2	357.7	354.1	355.9	355.9
25°	1087.8	950.9	591.4	407.0	374.2	357.7	343.1	335.8	335.8	337.7	339.5
27.5°	1170.0	994.7	553.0	385.1	355.9	339.5	323.1	315.8	317.6	321.2	321.2
30°	1290.4	1055.0	514.7	361.4	335.8	317.6	303.0	295.7	299.3	306.6	306.6
32.5°	1462.0	1153.5	481.9	334.0	306.6	286.6	272.0	266.5	275.6	290.2	290.2
35°	1768.6	1334.2	461.8	306.6	275.6	251.9	233.6	228.2	240.9	259.2	259.2
37.5°	2179.3	1624.4	469.1	282.9	250.1	222.7	202.6	195.3	204.4	220.9	226.3
40°	2637.4	1974.9	533.0	262.8	226.3	198.9	178.9	171.6	177.0	184.3	186.2
42.5°	3095.6	2347.2	653.4	248.2	208.1	178.9	160.6	155.1	158.8	160.6	162.4
45°	3551.9	2715.9	804.9	239.1	191.6	162.4	144.2	144.2	146.0	146.0	146.0
47.5°	3984.5	3075.5	963.7	237.3	177.0	146.0	131.4	133.2	133.2	135.1	135.1
50°	4393.3	3396.7	1124.3	242.8	164.3	131.4	120.5	120.5	120.5	122.3	120.5
52.5°	4734.6	3677.8	1292.3	251.9	151.5	120.5	109.5	109.5	109.5	111.3	109.5
55°	5057.7	3933.4	1463.8	264.7	140.5	111.3	100.4	96.7	96.7	98.6	96.7
57.5°	5320.5	4103.1	1626.3	266.5	131.4	102.2	93.1	87.6	87.6	87.6	87.6
60°	5331.5	4004.5	1673.7	233.6	120.5	93.1	84.0	76.7	78.5	78.5	78.5
62.5°	4982.9	3486.2	1345.2	175.2	107.7	84.0	76.7	69.4	69.4	69.4	69.4
65°	4298.4	2712.3	788.5	138.7	93.1	74.8	67.5	62.1	62.1	62.1	60.2
66°	3977.2	2378.3	604.1	125.9	87.6	73.0	65.7	60.2	58.4	56.6	56.6
67.5°	3453.3	1880.0	377.8	111.3	80.3	67.5	60.2	54.8	52.9	51.1	51.1
70°	2600.9	1193.7	184.3	85.8	69.4	58.4	52.9	47.5	45.6	43.8	42.0
72.5°	1825.2	699.1	96.7	65.7	56.6	51.1	45.6	40.2	38.3	36.5	36.5
75°	1031.3	337.7	63.9	47.5	45.6	42.0	38.3	32.9	31.0	31.0	31.0
77.5°	390.6	116.8	43.8	34.7	36.5	32.9	27.4	27.4	25.6	27.4	25.6
80°	102.2	51.1	27.4	25.6	27.4	23.7	20.1	21.9	21.9	21.9	21.9
82.5°	54.8	29.2	16.4	18.3	16.4	16.4	12.8	14.6	16.4	14.6	16.4
85°	38.3	14.6	9.1	9.1	7.3	7.3	5.5	7.3	9.1	7.3	7.3
87.5°	20.1	5.5	5.5	5.5	5.5	3.7	1.8	0.0	1.8	1.8	1.8
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)