

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: P1211572

Luminaire Tested: **ARCH4-50-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211572
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: ARCH4-50-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 435mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5677 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 53.2
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

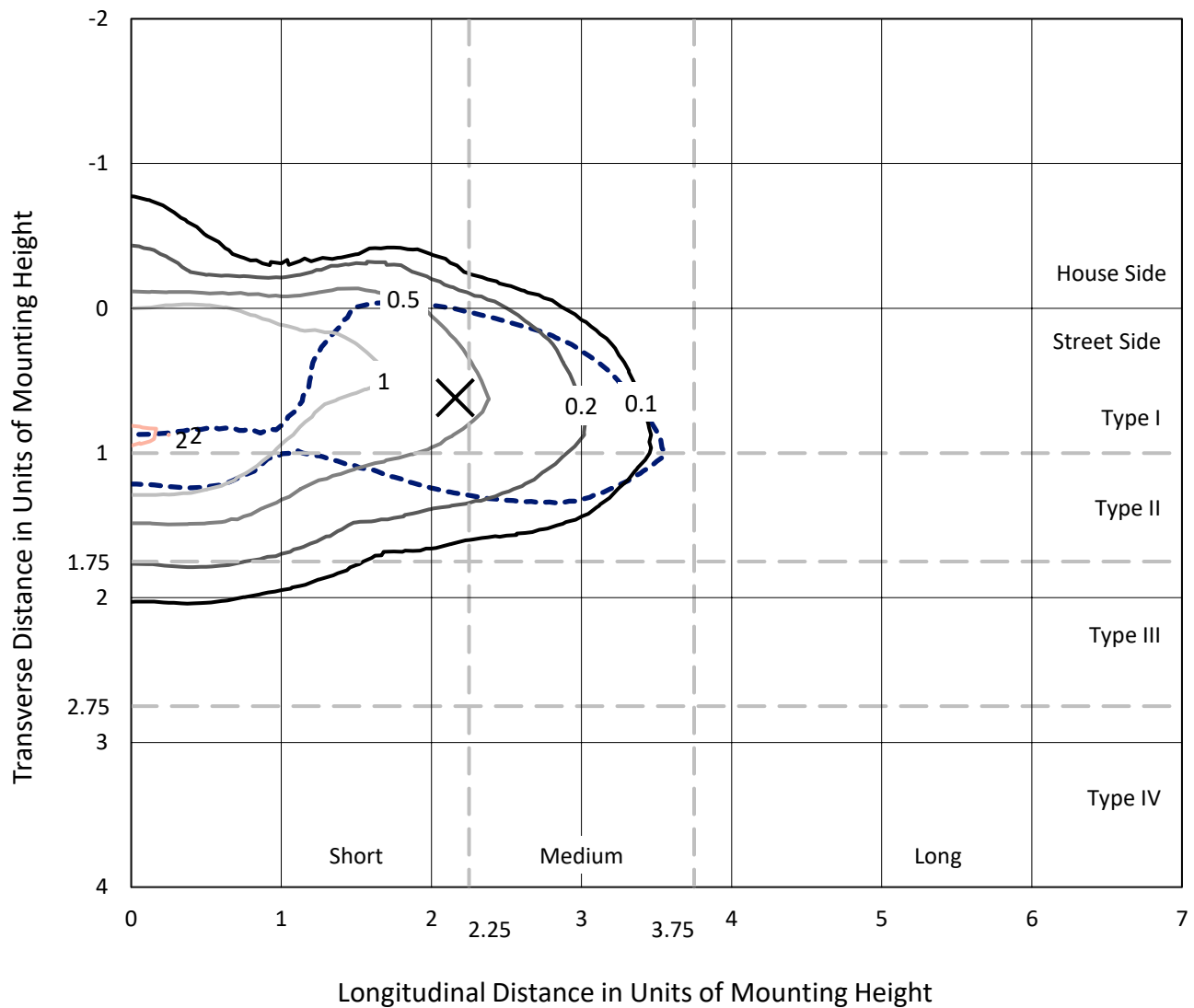


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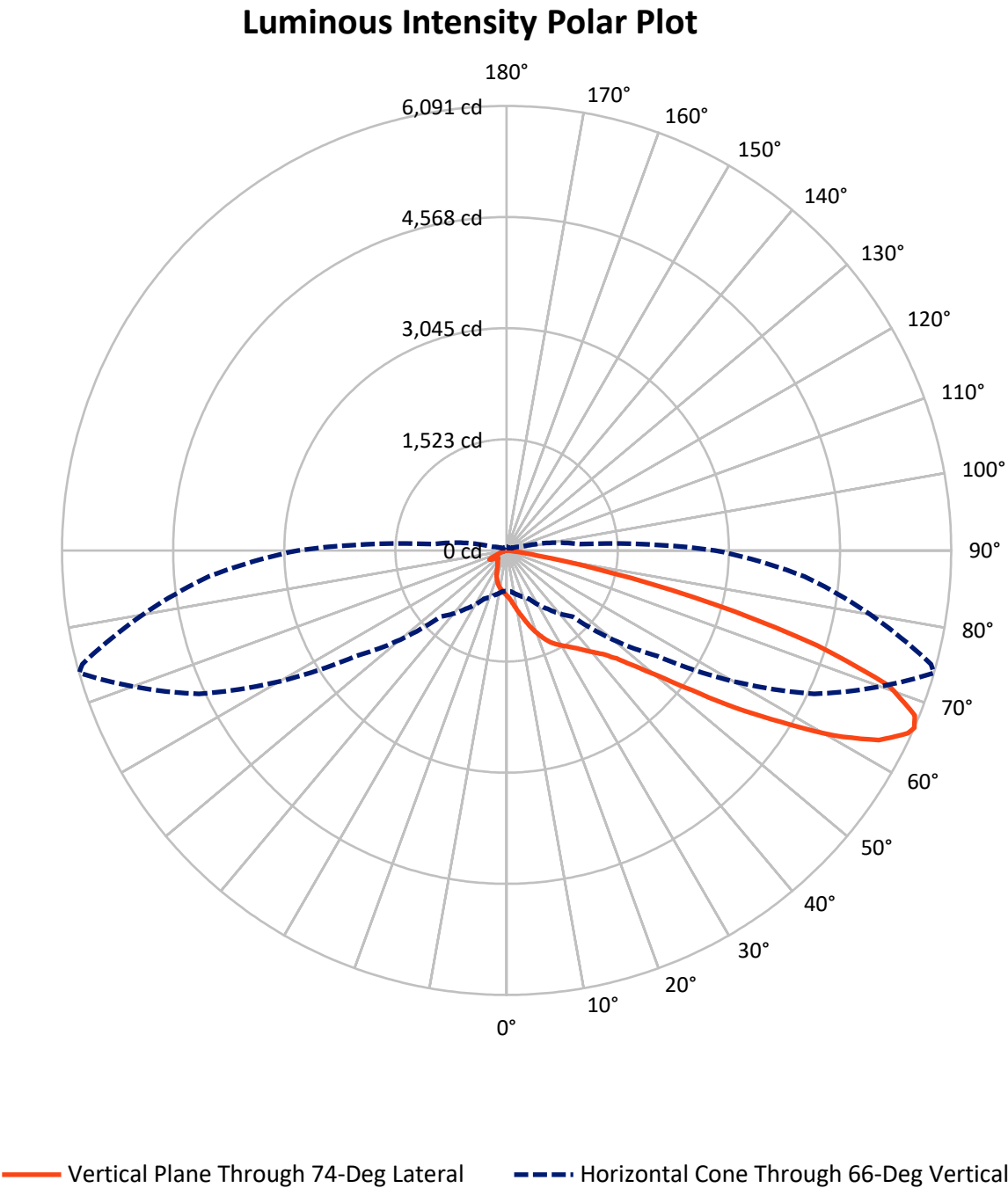
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	556.5	0.0	556.5
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	5120.5	0.0	5120.5
	% Fixture	90.2	0.0	90.2
Total	Lumens	5677.0	0.0	5677.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	1.1
10°-20°	193.9	3.4
20°-30°	370.1	6.5
30°-40°	648.6	11.4
40°-50°	1112.2	19.6
50°-60°	1446.5	25.5
60°-70°	1309.5	23.1
70°-80°	505.3	8.9
80°-90°	30.4	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°	5677.0	100.0
0°-180°	5677.0	100.0

Coefficient of Utilization



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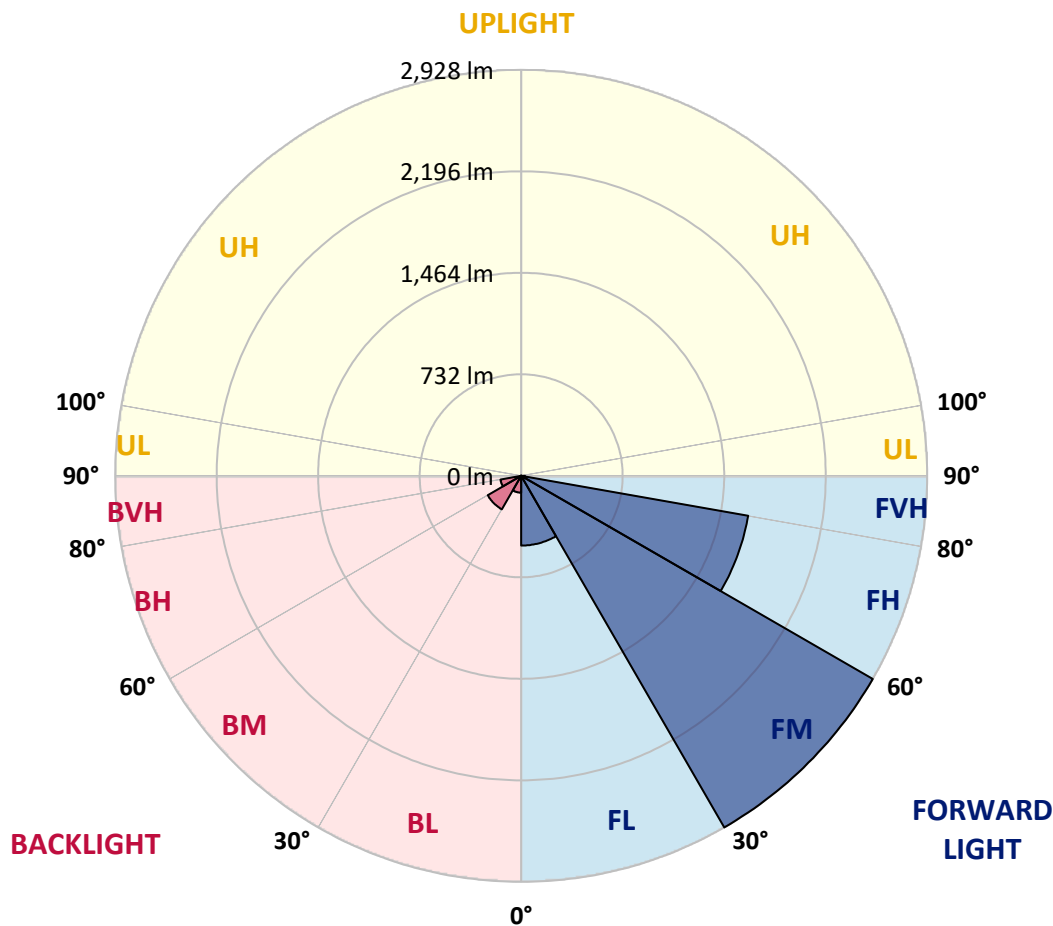
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	503.1	8.9			
FM	(30°-60°)	2928.5	51.6			
FH	(60°-80°)	1662.6	29.3			G1/1800
FVH	(80°-90°)	26.3	0.5			G1/100
BL	(0°-30°)	121.4	2.1	B1/500		
BM	(30°-60°)	278.9	4.9	B1/1000		
BH	(60°-80°)	152.1	2.7	B1/500		G1/500
BVH	(80°-90°)	4.1	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	619.7	619.7	619.7	619.7	619.7	619.7	619.7	619.7	619.7	619.7	619.7
2.5°	744.0	737.9	726.7	725.7	716.5	705.3	685.9	665.6	651.3	649.3	631.9
5°	890.8	887.8	876.5	869.4	852.1	825.6	780.7	735.9	698.2	694.1	655.4
7.5°	929.5	931.6	933.6	940.8	934.6	922.4	888.8	825.6	766.5	757.3	690.0
10°	935.7	933.6	933.6	942.8	960.1	977.4	973.4	919.3	842.9	831.7	737.9
12.5°	1001.9	1005.0	997.8	993.8	990.7	999.9	1030.4	1007.0	923.4	914.3	796.0
15°	1087.5	1086.5	1076.3	1076.3	1067.1	1051.8	1071.2	1088.5	1020.3	1009.0	862.3
17.5°	1149.7	1153.8	1152.8	1158.9	1155.8	1135.4	1125.2	1160.9	1120.1	1105.9	937.7
20°	1199.6	1210.8	1214.9	1234.3	1243.5	1229.2	1202.7	1225.1	1215.9	1202.7	1014.1
22.5°	1252.6	1261.8	1268.9	1302.6	1328.1	1325.0	1291.4	1286.3	1308.7	1296.5	1089.6
25°	1305.6	1309.7	1331.1	1371.9	1412.7	1422.8	1388.2	1348.4	1392.3	1381.1	1156.8
27.5°	1363.7	1365.8	1391.3	1441.2	1498.3	1519.7	1492.2	1418.8	1456.5	1456.5	1218.0
30°	1469.7	1490.1	1500.3	1545.2	1595.1	1624.7	1592.0	1493.2	1513.6	1522.7	1282.2
32.5°	1698.0	1701.1	1698.0	1717.4	1727.6	1744.9	1707.2	1576.8	1571.7	1581.8	1345.4
35°	2046.6	2034.4	2001.8	1973.2	1914.1	1881.5	1832.6	1683.8	1643.0	1657.3	1407.6
37.5°	2469.6	2452.3	2377.9	2290.2	2163.8	2033.4	1972.2	1814.2	1733.7	1752.1	1474.8
40°	2873.2	2862.0	2773.3	2665.3	2449.2	2226.0	2096.6	1924.3	1834.6	1841.8	1543.1
42.5°	3205.5	3203.4	3129.0	3015.9	2738.7	2433.9	2243.3	2032.4	1940.6	1951.8	1614.5
45°	3457.2	3437.9	3382.8	3301.3	3019.0	2650.0	2420.7	2196.4	2110.8	2124.1	1721.5
47.5°	3457.2	3460.3	3496.0	3487.8	3214.7	2852.8	2614.3	2403.4	2362.6	2374.8	1897.8
50°	3175.9	3204.5	3363.5	3497.0	3316.6	3010.8	2823.3	2662.2	2704.0	2722.4	2205.6
52.5°	2619.4	2667.3	2943.5	3248.3	3241.2	3090.3	3039.4	2991.4	3179.0	3211.6	2660.2
55°	1990.6	2022.2	2381.9	2782.5	2913.0	3025.1	3227.9	3409.3	3807.9	3800.7	3121.9
57.5°	1487.1	1516.6	1826.5	2270.9	2443.1	2742.8	3324.7	3887.4	4431.6	4459.1	3555.1
60°	1093.6	1116.1	1380.0	1744.9	1993.6	2310.6	3286.0	4358.2	5150.2	5118.6	3937.3
62.5°	809.3	821.5	1012.1	1249.6	1579.8	1882.5	3042.4	4680.3	5724.0	5659.8	4150.3
65°	625.8	629.9	728.8	855.1	1148.7	1463.6	2679.6	4729.2	6041.0	5972.7	4146.2
66°	557.5	560.6	632.9	730.8	977.4	1281.2	2520.6	4650.8	6090.9	6018.6	4095.3
67.5°	467.8	465.8	508.6	572.8	733.8	988.7	2238.2	4421.4	6031.8	5995.1	3932.2
70°	346.5	347.6	369.0	384.3	429.1	547.3	1616.5	3835.4	5558.9	5556.9	3484.8
72.5°	256.8	259.9	276.2	279.3	268.1	296.6	931.6	3050.6	4446.9	4447.9	2605.2
75°	192.6	197.7	202.8	204.9	194.7	187.5	420.9	2052.7	2925.2	2903.8	1474.8
77.5°	146.8	148.8	152.9	149.8	147.8	129.4	175.3	1000.9	1444.3	1315.8	478.0
80°	107.0	107.0	111.1	107.0	106.0	92.8	95.8	321.1	424.0	352.7	102.9
82.5°	67.3	66.3	69.3	68.3	66.3	59.1	56.1	89.7	97.8	87.7	49.9
85°	37.7	36.7	35.7	34.7	31.6	26.5	30.6	33.6	44.8	45.9	35.7
87.5°	13.3	13.3	12.2	11.2	9.2	9.2	11.2	11.2	16.3	16.3	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°	619.7	619.7	619.7	619.7	619.7	619.7	619.7	619.7	619.7	619.7	619.7
2.5°	623.8	612.6	596.3	574.8	559.6	544.3	528.0	518.8	505.5	502.5	506.6
5°	635.0	614.6	573.8	529.0	490.3	455.6	423.0	403.6	384.3	377.1	380.2
7.5°	658.4	623.8	554.5	482.1	417.9	365.9	327.2	304.8	287.4	280.3	282.3
10°	693.1	640.1	536.1	429.1	346.5	291.5	258.9	244.6	234.4	230.3	231.4
12.5°	734.9	663.5	512.7	376.1	285.4	237.5	222.2	219.1	217.1	215.1	216.1
15°	781.8	683.9	485.2	324.1	237.5	211.0	205.9	204.9	203.8	203.8	203.8
17.5°	830.7	702.3	454.6	275.2	206.9	194.7	191.6	191.6	191.6	192.6	192.6
20°	876.5	716.5	418.9	231.4	189.6	179.4	177.3	177.3	178.4	179.4	179.4
22.5°	921.4	722.6	377.1	200.8	175.3	166.1	163.1	163.1	163.1	164.1	164.1
25°	960.1	722.6	335.3	181.4	163.1	153.9	149.8	148.8	149.8	149.8	149.8
27.5°	992.7	719.6	294.6	168.2	150.8	141.7	137.6	136.6	138.6	139.6	139.6
30°	1027.4	715.5	261.9	155.9	140.7	131.5	127.4	127.4	130.5	134.5	134.5
32.5°	1061.0	718.6	236.5	145.8	130.5	123.3	119.3	120.3	126.4	132.5	132.5
35°	1096.7	724.7	221.2	138.6	123.3	116.2	113.1	116.2	122.3	128.4	128.4
37.5°	1132.4	731.8	212.0	132.5	117.2	110.1	108.0	112.1	119.3	125.4	126.4
40°	1170.1	737.9	201.8	126.4	113.1	105.0	104.0	108.0	117.2	123.3	124.3
42.5°	1217.0	750.2	189.6	121.3	109.1	98.9	99.9	102.9	112.1	121.3	122.3
45°	1308.7	788.9	177.3	116.2	104.0	95.8	93.8	95.8	106.0	116.2	118.2
47.5°	1480.9	876.5	164.1	111.1	98.9	93.8	85.6	87.7	96.8	108.0	109.1
50°	1811.2	1063.1	157.0	106.0	94.8	86.6	77.5	77.5	84.6	94.8	94.8
52.5°	2325.9	1397.4	161.0	101.9	89.7	79.5	70.3	69.3	73.4	80.5	80.5
55°	2881.4	1764.3	176.3	97.8	83.6	75.4	65.2	60.1	63.2	67.3	67.3
57.5°	3321.7	1948.8	218.1	95.8	76.4	72.4	59.1	52.0	55.0	59.1	59.1
60°	3515.3	1840.7	265.0	97.8	71.3	67.3	53.0	45.9	51.0	55.0	56.1
62.5°	3358.4	1515.6	284.4	92.8	64.2	60.1	52.0	42.8	48.9	52.0	53.0
65°	3019.0	1151.7	222.2	80.5	59.1	52.0	46.9	40.8	45.9	48.9	48.9
66°	2857.9	1003.9	189.6	74.4	57.1	48.9	44.8	40.8	44.8	46.9	47.9
67.5°	2608.2	791.9	140.7	65.2	53.0	44.8	41.8	38.7	42.8	44.8	44.8
70°	2039.5	471.9	84.6	51.0	45.9	39.8	37.7	35.7	38.7	39.8	39.8
72.5°	1277.1	224.2	54.0	37.7	38.7	37.7	31.6	33.6	34.7	35.7	35.7
75°	618.7	88.7	36.7	27.5	31.6	35.7	25.5	29.6	30.6	32.6	31.6
77.5°	172.3	42.8	23.4	20.4	27.5	27.5	19.4	23.4	27.5	34.7	31.6
80°	49.9	27.5	15.3	15.3	19.4	19.4	13.3	16.3	18.3	20.4	21.4
82.5°	34.7	18.3	10.2	11.2	11.2	12.2	8.2	8.2	10.2	10.2	11.2
85°	27.5	8.2	6.1	7.1	5.1	6.1	4.1	4.1	5.1	4.1	4.1
87.5°	11.2	4.1	4.1	4.1	3.1	3.1	2.0	1.0	1.0	1.0	1.0
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)