

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: P1211674

Luminaire Tested: **ARCH4-80-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211674
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: ARCH4-80-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9574 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

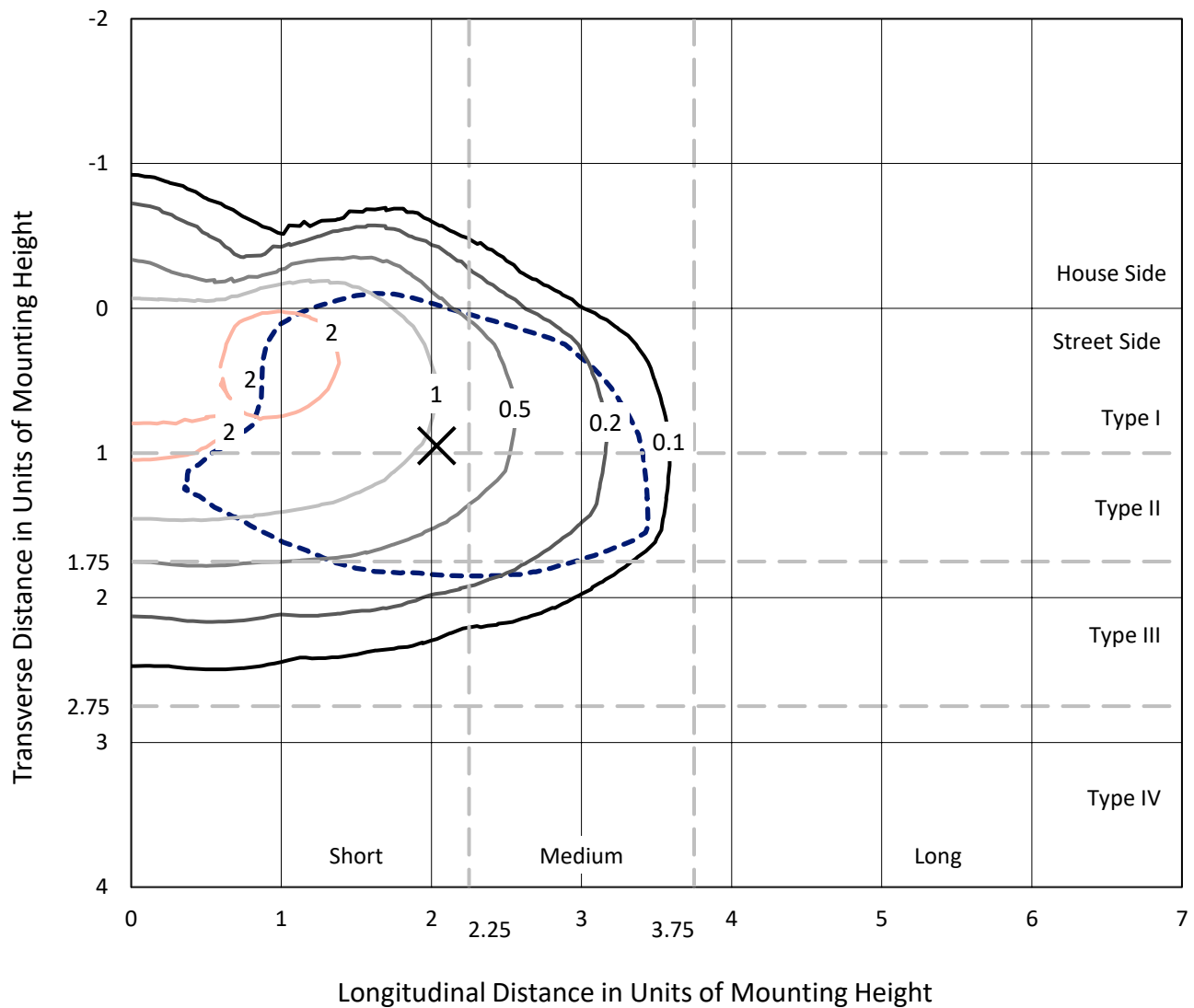
Input Watts (W): 83.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

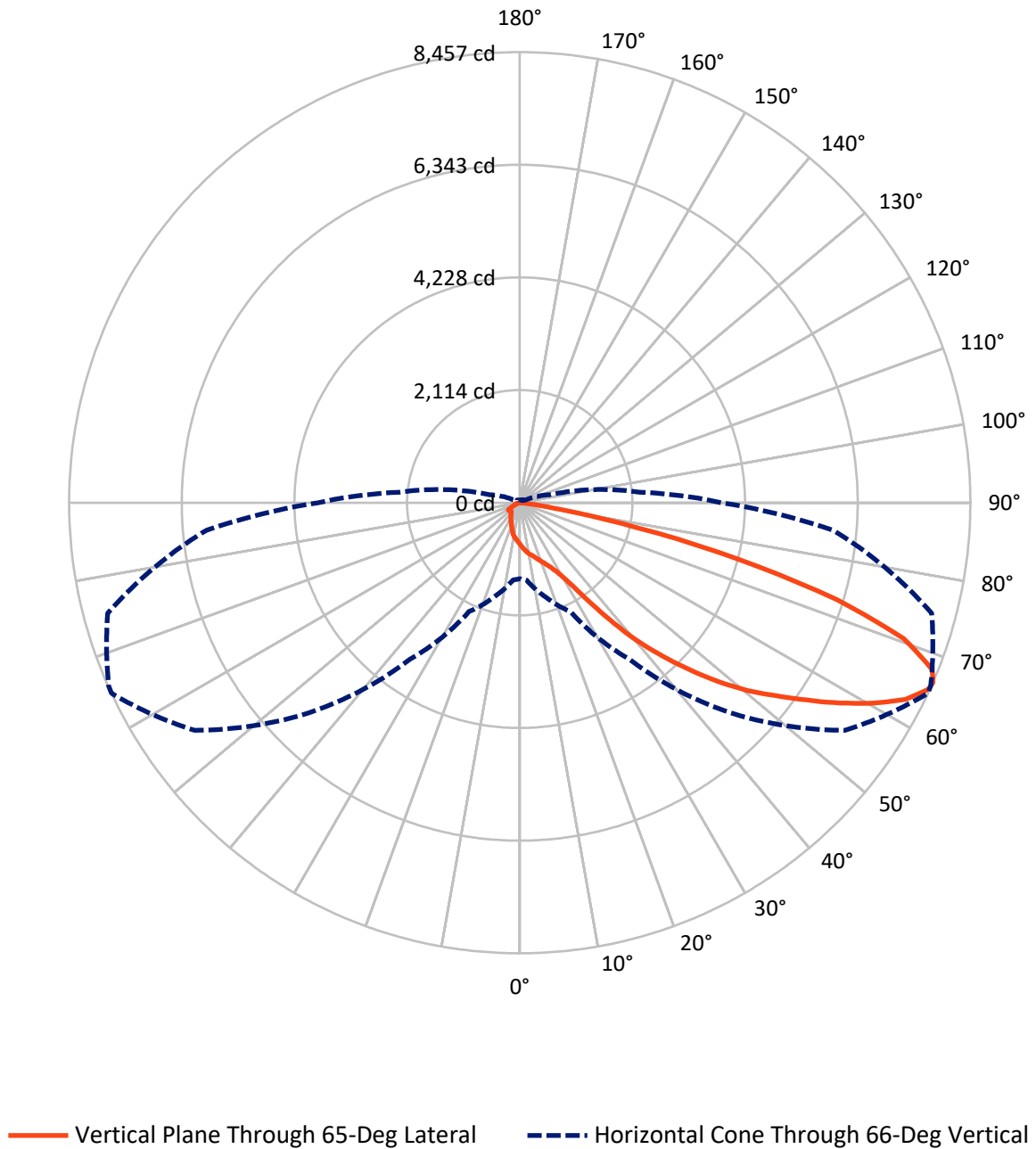
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	1129.9	0.0	1129.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	8444.1	0.0	8444.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	9574.0	0.0	9574.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	0.8
10°-20°	218.9	2.3
20°-30°	400.7	4.2
30°-40°	814.1	8.5
40°-50°	1719.2	18.0
50°-60°	2643.0	27.6
60°-70°	2660.4	27.8
70°-80°	994.1	10.4
80°-90°	49.6	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°	9574.0	100.0
0°-180°	9574.0	100.0

Coefficient of Utilization



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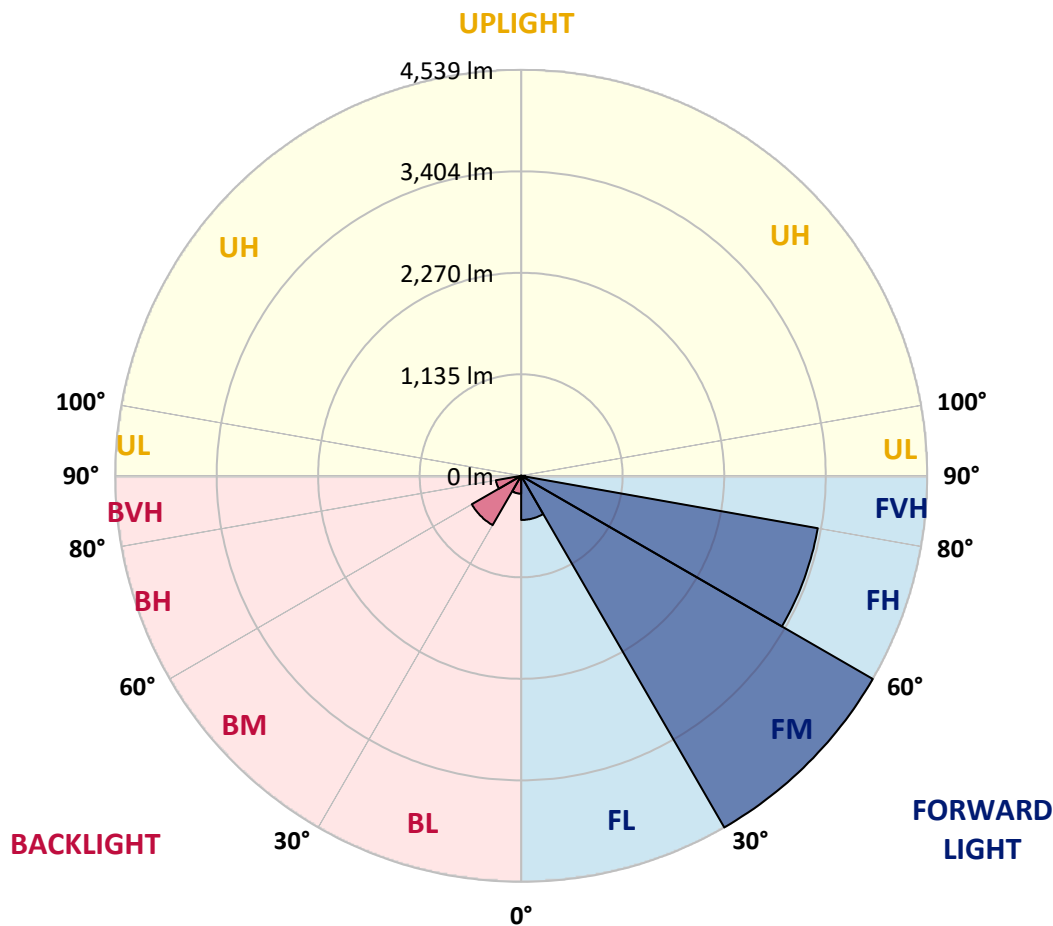
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	493.5	5.2			
FM	(30°-60°)	4539.3	47.4			
FH	(60°-80°)	3367.4	35.2			G2/5000
FVH	(80°-90°)	43.8	0.5			G1/100
BL	(0°-30°)	200.0	2.1	B1/500		
BM	(30°-60°)	637.1	6.7	B1/1000		
BH	(60°-80°)	287.0	3.0	B1/500		G1/500
BVH	(80°-90°)	5.8	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°	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0
2.5°	889.5	891.2	887.7	880.8	873.8	865.1	851.2	828.7	825.2	809.5	792.2
5°	950.3	953.7	948.5	946.8	943.3	931.1	912.0	879.0	875.6	844.3	804.3
7.5°	971.1	976.3	972.8	972.8	972.8	967.6	958.9	929.4	924.2	884.2	823.4
10°	986.7	990.2	988.5	995.4	1000.6	997.2	992.0	974.6	969.4	929.4	849.5
12.5°	1011.1	1012.8	1014.5	1018.0	1026.7	1030.2	1028.4	1012.8	1009.3	981.5	882.5
15°	1033.6	1033.6	1035.4	1051.0	1063.2	1070.1	1071.9	1059.7	1056.2	1033.6	924.2
17.5°	1054.5	1056.2	1061.4	1078.8	1099.7	1113.6	1122.2	1117.0	1111.8	1094.4	972.8
20°	1085.8	1089.2	1094.4	1118.8	1139.6	1162.2	1179.6	1177.8	1176.1	1163.9	1030.2
22.5°	1139.6	1143.1	1151.8	1174.4	1195.2	1223.0	1252.5	1250.8	1245.6	1236.9	1097.9
25°	1221.3	1221.3	1226.5	1245.6	1271.6	1304.7	1332.4	1337.7	1332.4	1327.2	1183.0
27.5°	1323.8	1325.5	1325.5	1346.3	1370.7	1412.4	1447.1	1452.3	1452.3	1447.1	1297.7
30°	1466.2	1461.0	1457.5	1474.9	1501.0	1561.8	1622.6	1633.0	1627.8	1636.5	1459.3
32.5°	1711.2	1702.5	1672.9	1676.4	1692.1	1775.4	1877.9	1914.4	1912.7	1928.3	1719.8
35°	2049.9	2032.5	1989.1	1952.6	1950.9	2041.2	2197.6	2334.8	2333.1	2386.9	2115.9
37.5°	2432.1	2454.7	2373.0	2310.5	2291.4	2362.6	2564.1	2861.2	2876.8	2970.6	2635.4
40°	2942.9	2956.7	2852.5	2763.9	2673.6	2699.6	2965.4	3427.5	3455.3	3559.6	3154.8
42.5°	3387.6	3401.5	3340.7	3233.0	3118.3	3069.7	3370.2	3941.8	3964.3	4108.5	3689.9
45°	3689.9	3700.3	3721.1	3731.5	3601.3	3500.5	3865.3	4469.9	4497.7	4664.4	4212.8
47.5°	3926.1	3934.8	3976.5	4080.7	4054.7	3974.8	4369.1	5018.8	5025.8	5211.7	4721.8
50°	4035.6	4056.4	4158.9	4318.7	4433.4	4456.0	4916.3	5538.3	5557.4	5734.6	5203.0
52.5°	3914.0	3920.9	4179.8	4480.3	4711.3	4940.7	5465.3	6019.5	6075.1	6207.1	5635.5
55°	3504.0	3554.4	3947.0	4475.1	4930.2	5401.0	6052.5	6538.9	6589.3	6672.7	6016.0
57.5°	3028.0	3083.6	3561.3	4251.0	5024.0	5826.6	6596.2	7091.3	7126.1	7148.7	6365.2
60°	2616.3	2668.4	3160.0	3821.9	4930.2	6127.2	7101.8	7640.3	7669.8	7609.0	6540.6
62.5°	2110.7	2162.8	2657.9	3253.8	4561.9	6188.0	7477.0	8128.5	8140.6	7975.6	6432.9
65°	1591.3	1626.0	2039.5	2550.2	3917.4	5864.9	7562.1	8432.5	8420.3	8081.5	6109.8
66°	1426.3	1455.8	1820.6	2254.9	3582.1	5569.5	7447.5	8456.8	8444.6	8003.4	5897.9
67.5°	1230.0	1238.6	1539.2	1844.9	2996.7	4942.4	7098.3	8345.6	8356.0	7788.0	5510.5
70°	960.7	958.9	1132.7	1283.8	2046.4	3516.1	5920.4	7645.5	7695.9	6974.9	4699.2
72.5°	615.0	594.1	694.9	785.2	1191.7	2041.2	4317.0	6231.4	6316.5	5479.2	3500.5
75°	366.6	345.7	370.0	392.6	571.5	981.5	2538.1	4240.6	4322.2	3512.7	2082.9
77.5°	274.5	265.8	267.5	248.4	253.6	368.3	1158.7	2241.0	2300.1	1438.4	790.4
80°	210.2	187.6	175.5	184.1	166.8	145.9	430.8	771.3	807.8	340.5	165.0
82.5°	140.7	121.6	112.9	123.3	106.0	81.6	104.2	149.4	145.9	92.1	64.3
85°	73.0	62.5	62.5	62.5	53.9	40.0	45.2	60.8	60.8	48.6	38.2
87.5°	20.8	19.1	22.6	20.8	15.6	15.6	17.4	20.8	20.8	19.1	17.4
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°	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0	780.0
2.5°	778.3	771.3	752.2	738.3	724.4	712.3	698.4	694.9	687.9	689.7	686.2
5°	783.5	764.4	731.4	700.1	675.8	654.9	628.9	618.5	604.6	599.3	595.9
7.5°	790.4	762.6	714.0	670.6	628.9	587.2	545.5	521.2	505.5	498.6	493.4
10°	806.1	769.6	705.3	637.6	566.3	507.3	465.6	448.2	437.8	436.0	434.3
12.5°	826.9	780.0	696.6	595.9	502.1	446.5	420.4	415.2	413.5	413.5	411.7
15°	858.2	797.4	682.7	547.2	451.7	413.5	401.3	392.6	389.1	389.1	389.1
17.5°	889.5	818.2	661.9	496.8	416.9	392.6	380.5	375.2	371.8	373.5	371.8
20°	929.4	842.6	634.1	453.4	394.3	375.2	363.1	357.9	356.1	356.1	356.1
22.5°	974.6	870.3	599.3	420.4	375.2	357.9	345.7	340.5	337.0	338.8	338.8
25°	1035.4	905.1	562.9	387.4	356.1	340.5	326.6	319.6	319.6	321.4	323.1
27.5°	1113.6	946.8	526.4	366.6	338.8	323.1	307.5	300.5	302.3	305.8	305.8
30°	1228.2	1004.1	489.9	344.0	319.6	302.3	288.4	281.4	284.9	291.9	291.9
32.5°	1391.5	1097.9	458.6	317.9	291.9	272.7	258.8	253.6	262.3	276.2	276.2
35°	1683.4	1269.9	439.5	291.9	262.3	239.7	222.4	217.2	229.3	246.7	246.7
37.5°	2074.2	1546.1	446.5	269.3	238.0	211.9	192.8	185.9	194.6	210.2	215.4
40°	2510.3	1879.7	507.3	250.2	215.4	189.4	170.2	163.3	168.5	175.5	177.2
42.5°	2946.3	2234.1	621.9	236.3	198.0	170.2	152.9	147.7	151.1	152.9	154.6
45°	3380.6	2585.0	766.1	227.6	182.4	154.6	137.2	137.2	139.0	139.0	139.0
47.5°	3792.4	2927.2	917.3	225.8	168.5	139.0	125.1	126.8	126.8	128.6	128.6
50°	4181.5	3233.0	1070.1	231.1	156.3	125.1	114.7	114.7	114.7	116.4	114.7
52.5°	4506.3	3500.5	1230.0	239.7	144.2	114.7	104.2	104.2	104.2	106.0	104.2
55°	4813.8	3743.7	1393.3	251.9	133.8	106.0	95.5	92.1	92.1	93.8	92.1
57.5°	5064.0	3905.3	1547.9	253.6	125.1	97.3	88.6	83.4	83.4	83.4	83.4
60°	5074.4	3811.5	1593.0	222.4	114.7	88.6	79.9	73.0	74.7	74.7	74.7
62.5°	4742.6	3318.1	1280.3	166.8	102.5	79.9	73.0	66.0	66.0	66.0	66.0
65°	4091.2	2581.5	750.5	132.0	88.6	71.2	64.3	59.1	59.1	59.1	57.3
66°	3785.4	2263.6	575.0	119.9	83.4	69.5	62.5	57.3	55.6	53.9	53.9
67.5°	3286.8	1789.3	359.6	106.0	76.4	64.3	57.3	52.1	50.4	48.6	48.6
70°	2475.5	1136.1	175.5	81.6	66.0	55.6	50.4	45.2	43.4	41.7	40.0
72.5°	1737.2	665.4	92.1	62.5	53.9	48.6	43.4	38.2	36.5	34.7	34.7
75°	981.5	321.4	60.8	45.2	43.4	40.0	36.5	31.3	29.5	29.5	29.5
77.5°	371.8	111.2	41.7	33.0	34.7	31.3	26.1	26.1	24.3	26.1	24.3
80°	97.3	48.6	26.1	24.3	26.1	22.6	19.1	20.8	20.8	20.8	20.8
82.5°	52.1	27.8	15.6	17.4	15.6	15.6	12.2	13.9	15.6	13.9	15.6
85°	36.5	13.9	8.7	8.7	6.9	6.9	5.2	6.9	8.7	6.9	6.9
87.5°	19.1	5.2	5.2	5.2	5.2	3.5	1.7	0.0	1.7	1.7	1.7
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)