

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: P1210196

Luminaire Tested: **ARCH2-50-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210196
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: ARCH2-50-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4930 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 54
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

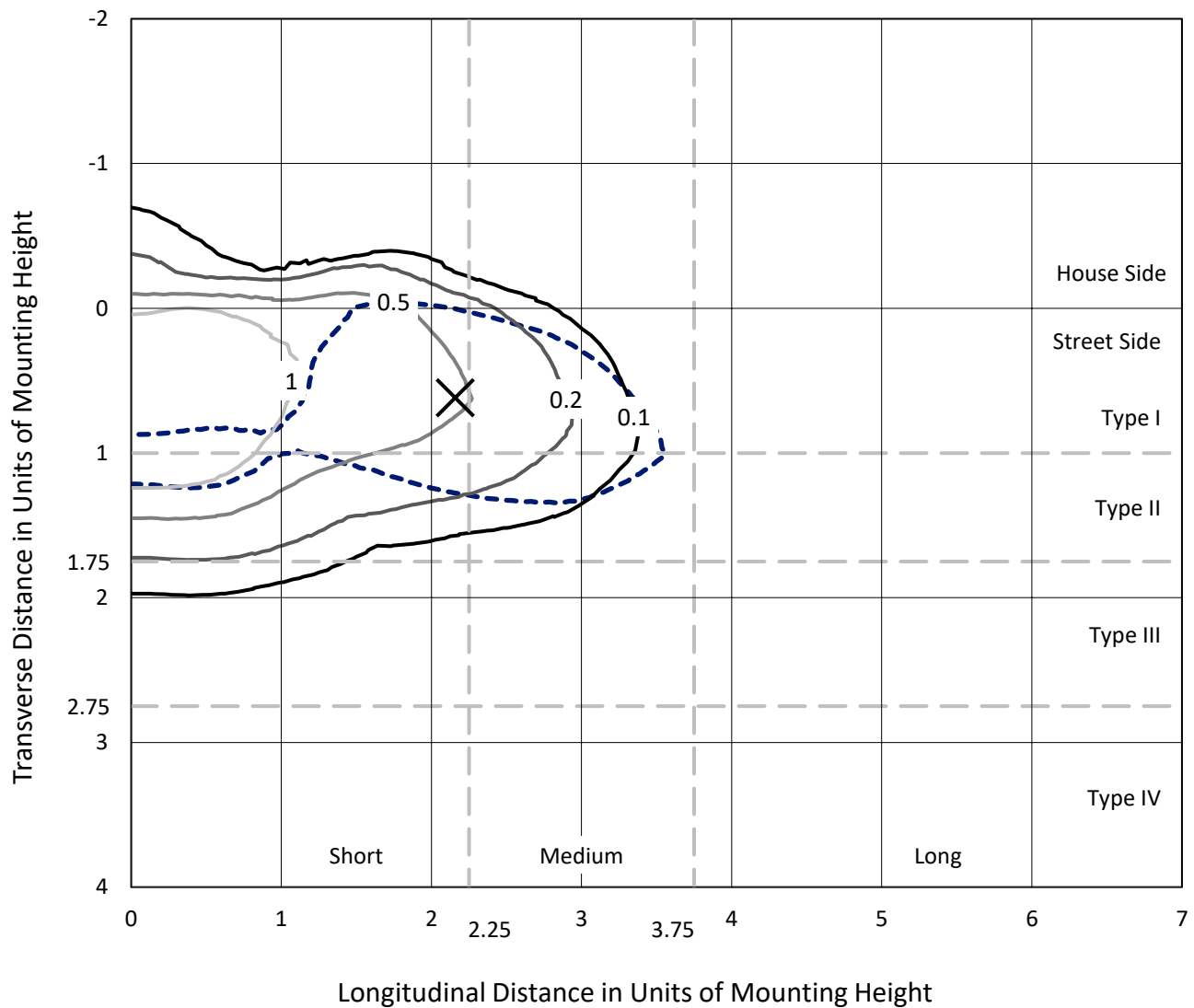


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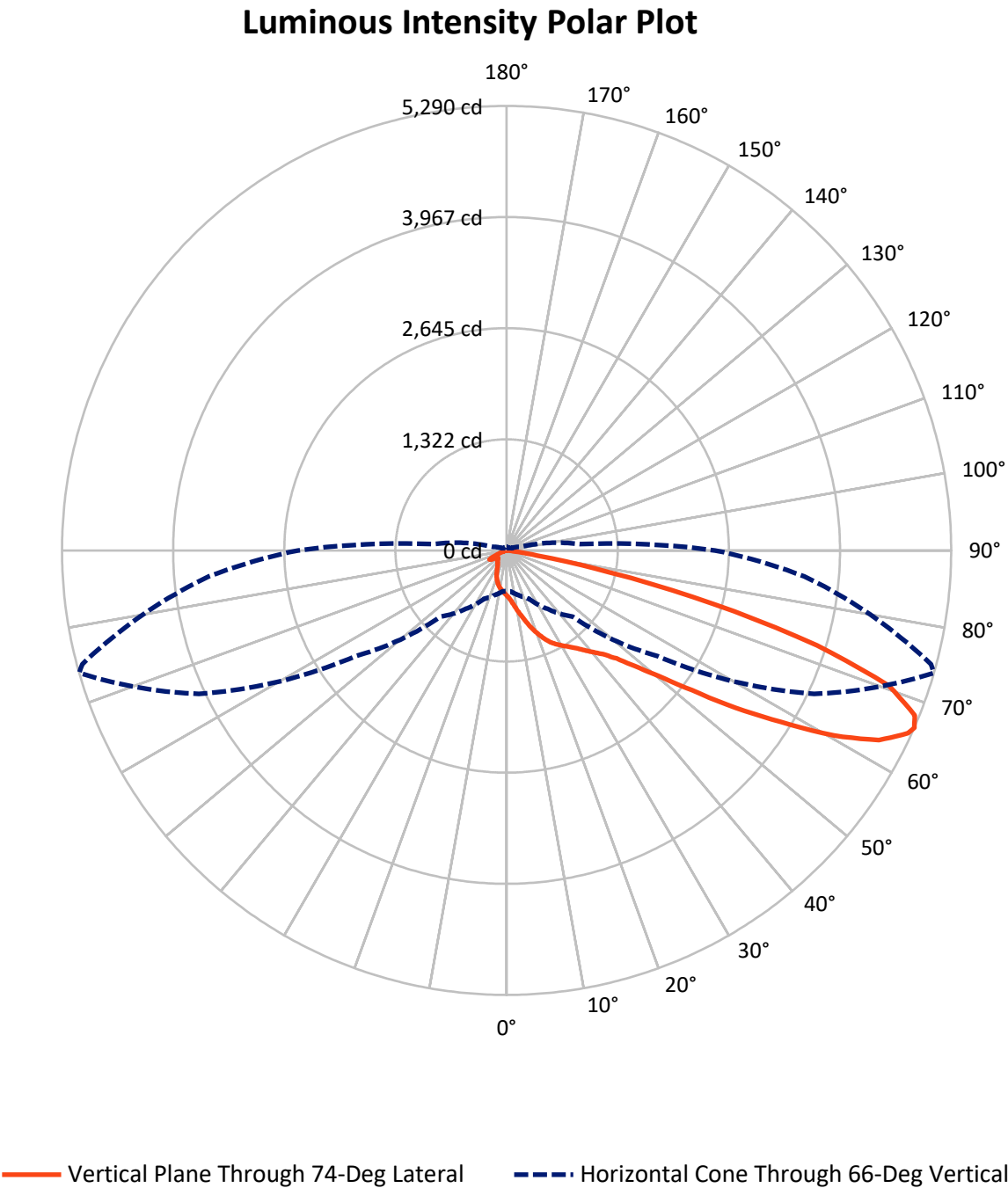
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	483.3	0.0	483.3
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	4446.7	0.0	4446.7
	% Fixture	90.2	0.0	90.2
Total	Lumens	4930.0	0.0	4930.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	1.1
10°-20°	168.4	3.4
20°-30°	321.4	6.5
30°-40°	563.3	11.4
40°-50°	965.9	19.6
50°-60°	1256.2	25.5
60°-70°	1137.2	23.1
70°-80°	438.8	8.9
80°-90°	26.4	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°	4930.0	100.0
0°-180°	4930.0	100.0

Coefficient of Utilization



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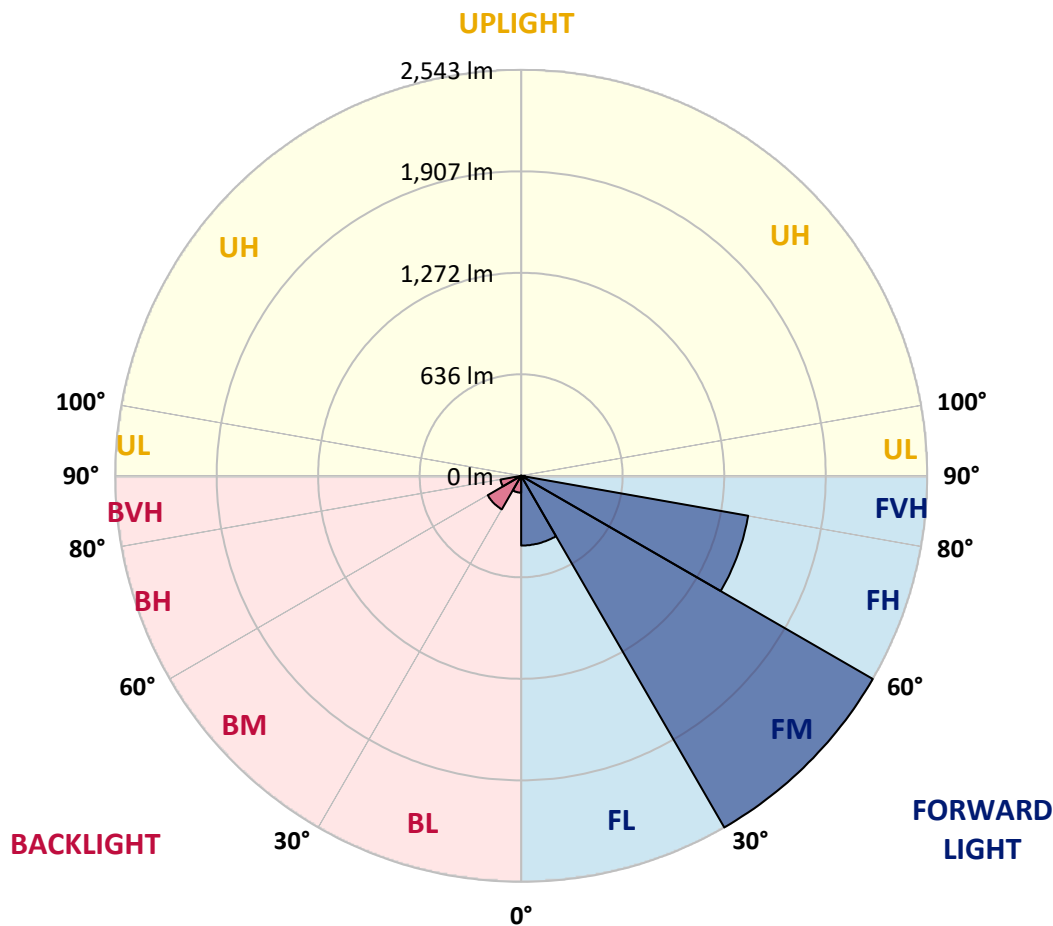
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	436.9	8.9			
FM	(30°-60°)	2543.1	51.6			
FH	(60°-80°)	1443.8	29.3			G1/1800
FVH	(80°-90°)	22.9	0.5			G1/100
BL	(0°-30°)	105.4	2.1	B0/110		
BM	(30°-60°)	242.2	4.9	B1/1000		
BH	(60°-80°)	132.1	2.7	B1/500		G1/500
BVH	(80°-90°)	3.5	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°	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2
2.5°	646.1	640.8	631.1	630.2	622.2	612.5	595.7	578.0	565.6	563.8	548.8
5°	773.6	770.9	761.2	755.0	740.0	716.9	678.0	639.1	606.3	602.8	569.1
7.5°	807.2	809.0	810.8	817.0	811.7	801.0	771.8	716.9	665.6	657.6	599.2
10°	812.5	810.8	810.8	818.7	833.8	848.8	845.3	798.4	732.0	722.3	640.8
12.5°	870.1	872.7	866.5	863.0	860.3	868.3	894.9	874.5	801.9	794.0	691.3
15°	944.4	943.5	934.7	934.7	926.7	913.4	930.3	945.3	886.0	876.3	748.8
17.5°	998.4	1002.0	1001.1	1006.4	1003.7	986.0	977.2	1008.2	972.7	960.4	814.3
20°	1041.8	1051.5	1055.1	1071.9	1079.8	1067.5	1044.4	1063.9	1055.9	1044.4	880.7
22.5°	1087.8	1095.8	1102.0	1131.2	1153.3	1150.7	1121.4	1117.0	1136.5	1125.9	946.2
25°	1133.8	1137.4	1156.0	1191.4	1226.8	1235.6	1205.5	1171.0	1209.1	1199.3	1004.6
27.5°	1184.3	1186.1	1208.2	1251.6	1301.1	1319.7	1295.8	1232.1	1264.8	1264.8	1057.7
30°	1276.3	1294.0	1302.9	1341.8	1385.2	1410.9	1382.6	1296.7	1314.4	1322.4	1113.5
32.5°	1474.6	1477.3	1474.6	1491.4	1500.3	1515.3	1482.6	1369.3	1364.9	1373.7	1168.4
35°	1777.3	1766.7	1738.4	1713.6	1662.3	1633.9	1591.4	1462.2	1426.8	1439.2	1222.3
37.5°	2144.6	2129.6	2065.0	1988.9	1879.1	1765.8	1712.7	1575.5	1505.6	1521.5	1280.8
40°	2495.1	2485.4	2408.4	2314.6	2126.9	1933.1	1820.7	1671.1	1593.2	1599.4	1340.1
42.5°	2783.7	2781.9	2717.3	2619.1	2378.3	2113.7	1948.1	1764.9	1685.3	1695.0	1402.0
45°	3002.3	2985.5	2937.7	2866.9	2621.7	2301.3	2102.2	1907.4	1833.1	1844.6	1495.0
47.5°	3002.3	3005.0	3036.0	3028.9	2791.7	2477.4	2270.3	2087.1	2051.7	2062.3	1648.1
50°	2758.0	2782.8	2920.9	3036.8	2880.2	2614.6	2451.8	2311.9	2348.2	2364.2	1915.4
52.5°	2274.8	2316.4	2556.2	2820.9	2814.7	2683.7	2639.4	2597.8	2760.7	2789.0	2310.2
55°	1728.6	1756.1	2068.5	2416.4	2529.7	2627.0	2803.2	2960.7	3306.8	3300.6	2711.1
57.5°	1291.4	1317.1	1586.1	1972.0	2121.6	2381.9	2887.3	3375.8	3848.5	3872.4	3087.3
60°	949.7	969.2	1198.5	1515.3	1731.3	2006.6	2853.6	3784.8	4472.5	4445.1	3419.2
62.5°	702.8	713.4	878.9	1085.2	1371.9	1634.8	2642.1	4064.5	4970.8	4915.1	3604.2
65°	543.5	547.0	632.9	742.6	997.5	1271.0	2327.0	4107.0	5246.1	5186.8	3600.7
66°	484.2	486.8	549.7	634.6	848.8	1112.6	2188.9	4038.8	5289.5	5226.6	3556.4
67.5°	406.3	404.5	441.7	497.4	637.3	858.6	1943.7	3839.6	5238.1	5206.3	3414.8
70°	300.9	301.8	320.4	333.7	372.6	475.3	1403.8	3330.7	4827.4	4825.7	3026.2
72.5°	223.0	225.7	239.9	242.5	232.8	257.6	809.0	2649.2	3861.8	3862.7	2262.4
75°	167.3	171.7	176.1	177.9	169.1	162.9	365.6	1782.6	2540.3	2521.7	1280.8
77.5°	127.5	129.2	132.8	130.1	128.3	112.4	152.2	869.2	1254.2	1142.7	415.1
80°	92.9	92.9	96.5	92.9	92.1	80.5	83.2	278.8	368.2	306.3	89.4
82.5°	58.4	57.5	60.2	59.3	57.5	51.3	48.7	77.9	85.0	76.1	43.4
85°	32.7	31.9	31.0	30.1	27.4	23.0	26.6	29.2	38.9	39.8	31.0
87.5°	11.5	11.5	10.6	9.7	8.0	8.0	9.7	9.7	14.2	14.2	15.9
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°	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2
2.5°	541.7	532.0	517.8	499.2	485.9	472.7	458.5	450.5	439.0	436.4	439.9
5°	551.4	533.7	498.3	459.4	425.7	395.6	367.3	350.5	333.7	327.5	330.1
7.5°	571.8	541.7	481.5	418.7	362.9	317.8	284.1	264.7	249.6	243.4	245.2
10°	601.9	555.9	465.6	372.6	300.9	253.1	224.8	212.4	203.6	200.0	200.9
12.5°	638.2	576.2	445.2	326.6	247.8	206.2	193.0	190.3	188.5	186.8	187.6
15°	678.9	593.9	421.3	281.5	206.2	183.2	178.8	177.9	177.0	177.0	177.0
17.5°	721.4	609.8	394.8	239.0	179.7	169.1	166.4	166.4	166.4	167.3	167.3
20°	761.2	622.2	363.8	200.9	164.6	155.8	154.0	154.0	154.9	155.8	155.8
22.5°	800.1	627.5	327.5	174.4	152.2	144.3	141.6	141.6	141.6	142.5	142.5
25°	833.8	627.5	291.2	157.6	141.6	133.7	130.1	129.2	130.1	130.1	130.1
27.5°	862.1	624.9	255.8	146.0	131.0	123.0	119.5	118.6	120.4	121.3	121.3
30°	892.2	621.4	227.5	135.4	122.1	114.2	110.6	110.6	113.3	116.8	116.8
32.5°	921.4	624.0	205.3	126.6	113.3	107.1	103.6	104.4	109.8	115.1	115.1
35°	952.4	629.3	192.1	120.4	107.1	100.9	98.2	100.9	106.2	111.5	111.5
37.5°	983.4	635.5	184.1	115.1	101.8	95.6	93.8	97.4	103.6	108.9	109.8
40°	1016.1	640.8	175.3	109.8	98.2	91.2	90.3	93.8	101.8	107.1	108.0
42.5°	1056.8	651.4	164.6	105.3	94.7	85.9	86.7	89.4	97.4	105.3	106.2
45°	1136.5	685.1	154.0	100.9	90.3	83.2	81.4	83.2	92.1	100.9	102.7
47.5°	1286.1	761.2	142.5	96.5	85.9	81.4	74.3	76.1	84.1	93.8	94.7
50°	1572.9	923.2	136.3	92.1	82.3	75.2	67.3	67.3	73.5	82.3	82.3
52.5°	2019.8	1213.5	139.8	88.5	77.9	69.0	61.1	60.2	63.7	69.9	69.9
55°	2502.2	1532.1	153.1	85.0	72.6	65.5	56.6	52.2	54.9	58.4	58.4
57.5°	2884.6	1692.3	189.4	83.2	66.4	62.8	51.3	45.1	47.8	51.3	51.3
60°	3052.8	1598.5	230.1	85.0	62.0	58.4	46.0	39.8	44.3	47.8	48.7
62.5°	2916.5	1316.2	246.9	80.5	55.8	52.2	45.1	37.2	42.5	45.1	46.0
65°	2621.7	1000.2	193.0	69.9	51.3	45.1	40.7	35.4	39.8	42.5	42.5
66°	2481.9	871.8	164.6	64.6	49.6	42.5	38.9	35.4	38.9	40.7	41.6
67.5°	2265.0	687.7	122.1	56.6	46.0	38.9	36.3	33.6	37.2	38.9	38.9
70°	1771.1	409.8	73.5	44.3	39.8	34.5	32.7	31.0	33.6	34.5	34.5
72.5°	1109.1	194.7	46.9	32.7	33.6	32.7	27.4	29.2	30.1	31.0	31.0
75°	537.3	77.0	31.9	23.9	27.4	31.0	22.1	25.7	26.6	28.3	27.4
77.5°	149.6	37.2	20.4	17.7	23.9	23.9	16.8	20.4	23.9	30.1	27.4
80°	43.4	23.9	13.3	13.3	16.8	16.8	11.5	14.2	15.9	17.7	18.6
82.5°	30.1	15.9	8.9	9.7	9.7	10.6	7.1	7.1	8.9	8.9	9.7
85°	23.9	7.1	5.3	6.2	4.4	5.3	3.5	3.5	4.4	3.5	3.5
87.5°	9.7	3.5	3.5	3.5	2.7	2.7	1.8	0.9	0.9	0.9	0.9
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)