

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: P1210180

Luminaire Tested: **ARCH2-40-740-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210180
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: ARCH2-40-740-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 335mA 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: 4940 lumens
Efficiency: N/A
Efficacy: 112.0 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

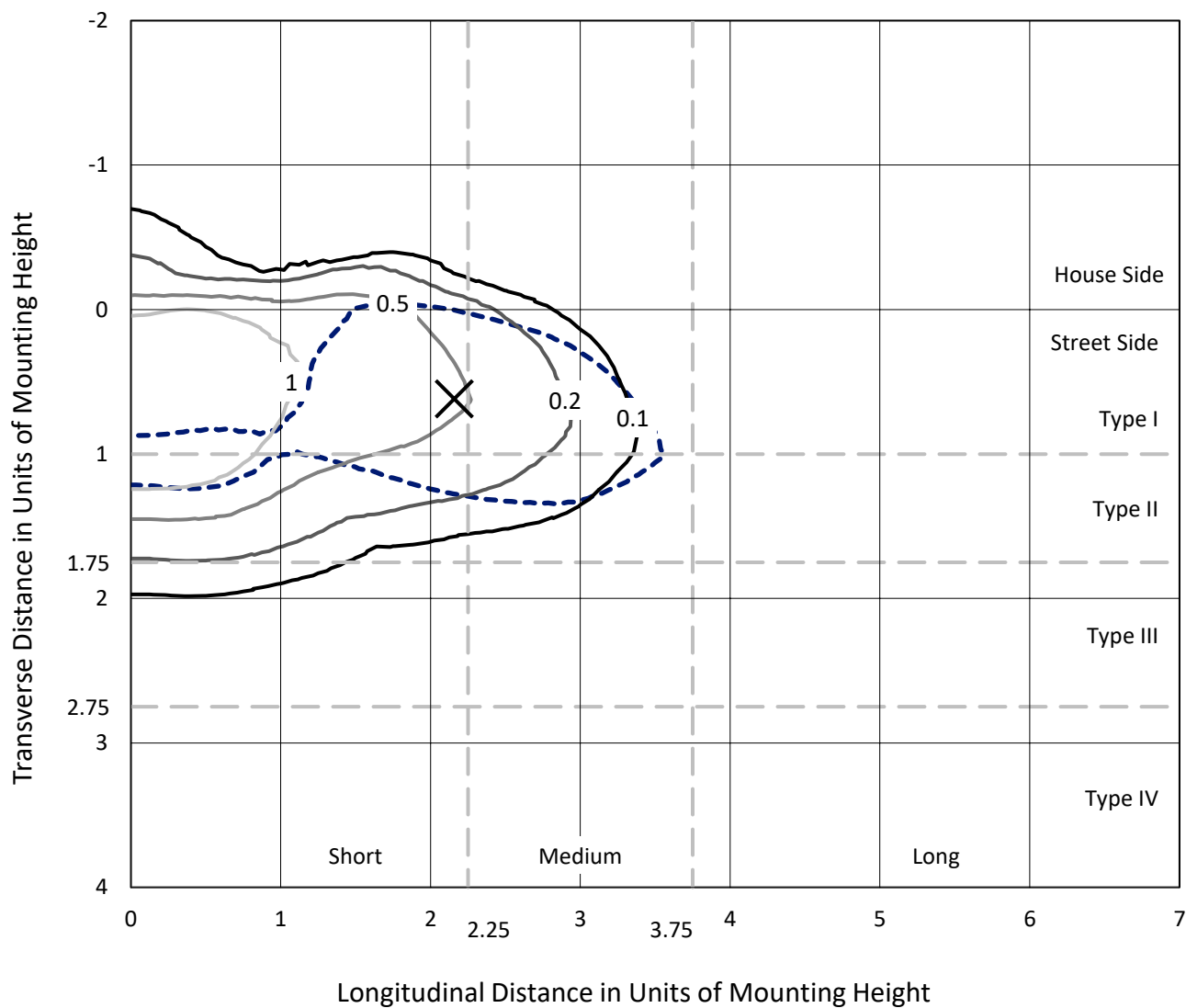
Input Watts (W): 44.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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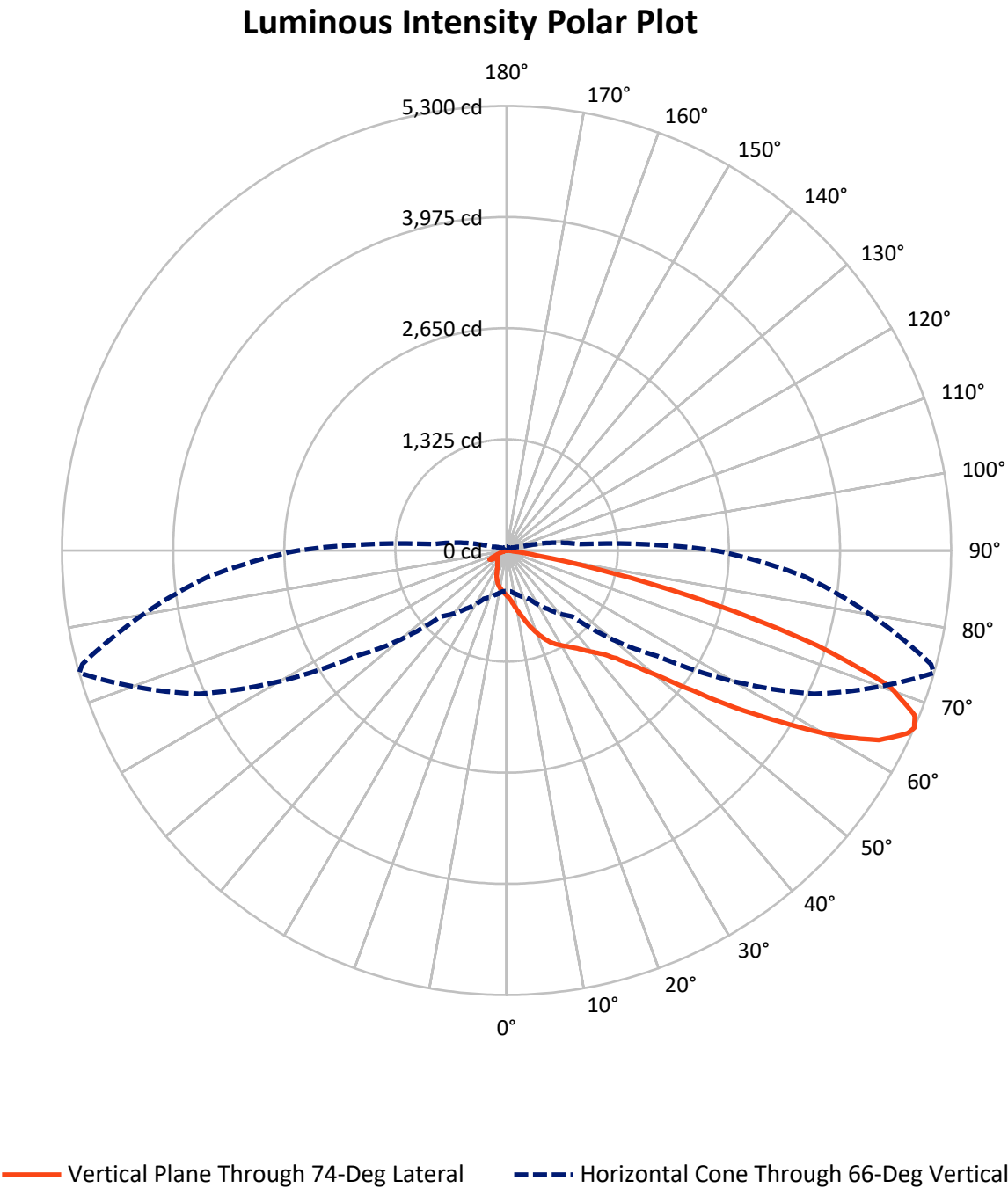
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	484.3	0.0	484.3
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	4455.7	0.0	4455.7
	% Fixture	90.2	0.0	90.2
Total	Lumens	4940.0	0.0	4940.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	1.1
10°-20°	168.7	3.4
20°-30°	322.0	6.5
30°-40°	564.4	11.4
40°-50°	967.8	19.6
50°-60°	1258.7	25.5
60°-70°	1139.5	23.1
70°-80°	439.7	8.9
80°-90°	26.5	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°	4940.0	100.0
0°-180°	4940.0	100.0

Coefficient of Utilization



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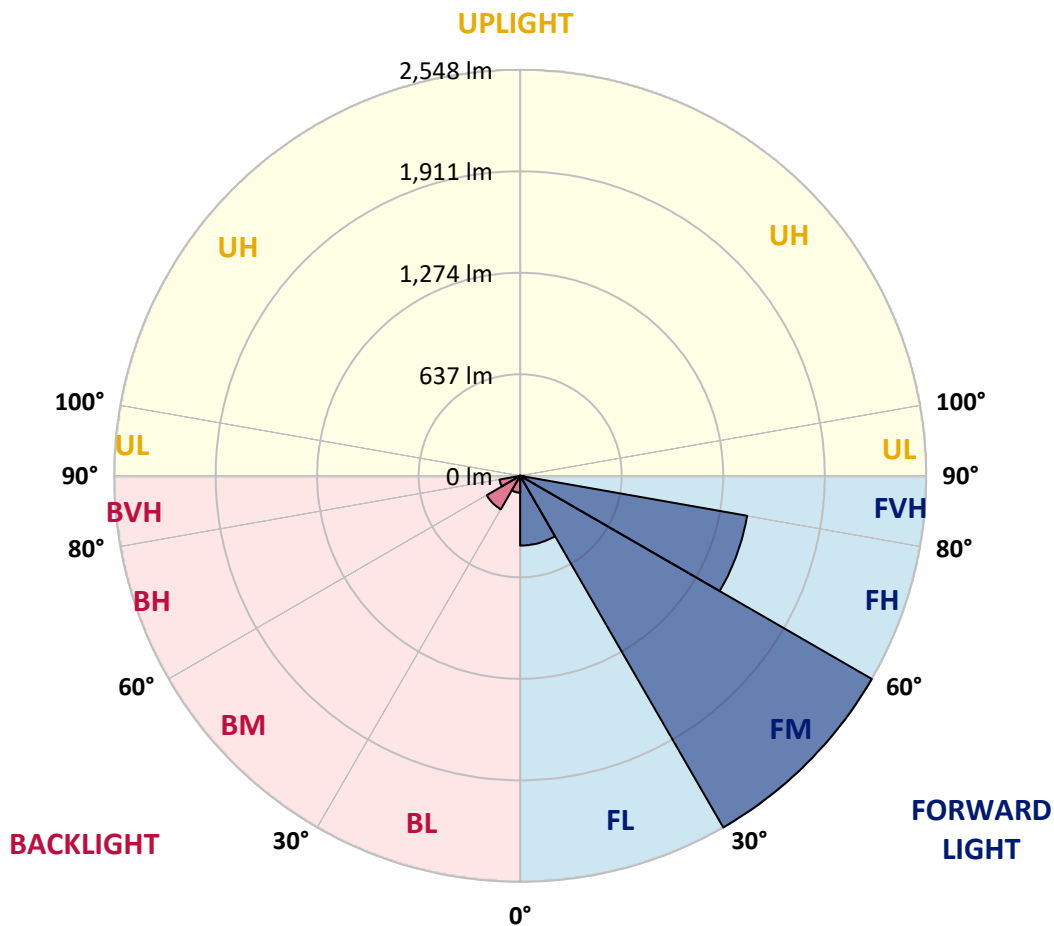
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	437.8	8.9			
FM	(30°-60°)	2548.3	51.6			
FH	(60°-80°)	1446.8	29.3			G1/1800
FVH	(80°-90°)	22.9	0.5			G1/100
BL	(0°-30°)	105.6	2.1	B0/110		
BM	(30°-60°)	242.7	4.9	B1/1000		
BH	(60°-80°)	132.4	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°	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2
2.5°	647.4	642.1	632.4	631.5	623.5	613.7	596.9	579.2	566.7	565.0	549.9
5°	775.2	772.5	762.7	756.5	741.5	718.4	679.4	640.4	607.5	604.0	570.3
7.5°	808.9	810.6	812.4	818.6	813.3	802.7	773.4	718.4	667.0	659.0	600.4
10°	814.2	812.4	812.4	820.4	835.5	850.6	847.0	800.0	733.5	723.7	642.1
12.5°	871.8	874.5	868.3	864.7	862.1	870.1	896.7	876.3	803.5	795.6	692.7
15°	946.3	945.5	936.6	936.6	928.6	915.3	932.1	947.2	887.8	878.0	750.3
17.5°	1000.4	1004.0	1003.1	1008.4	1005.8	988.0	979.2	1010.2	974.7	962.3	816.0
20°	1043.9	1053.7	1057.2	1074.1	1082.0	1069.6	1046.6	1066.1	1058.1	1046.6	882.5
22.5°	1090.0	1098.0	1104.2	1133.5	1155.6	1153.0	1123.7	1119.3	1138.8	1128.2	948.1
25°	1136.1	1139.7	1158.3	1193.8	1229.3	1238.1	1208.0	1173.4	1211.5	1201.8	1006.6
27.5°	1186.7	1188.5	1210.6	1254.1	1303.8	1322.4	1298.4	1234.6	1267.4	1267.4	1059.9
30°	1278.9	1296.7	1305.5	1344.6	1388.0	1413.7	1385.4	1299.3	1317.1	1325.0	1115.7
32.5°	1477.6	1480.3	1477.6	1494.5	1503.3	1518.4	1485.6	1372.1	1367.6	1376.5	1170.7
35°	1780.9	1770.3	1741.9	1717.1	1665.6	1637.2	1594.7	1465.2	1429.7	1442.1	1224.8
37.5°	2149.0	2133.9	2069.2	1992.9	1882.9	1769.4	1716.2	1578.7	1508.6	1524.6	1283.4
40°	2500.2	2490.5	2413.3	2319.3	2131.3	1937.0	1824.4	1674.5	1596.4	1602.7	1342.8
42.5°	2789.3	2787.6	2722.8	2624.4	2383.1	2118.0	1952.1	1768.5	1688.7	1698.4	1404.9
45°	3008.4	2991.6	2943.7	2872.7	2627.0	2306.0	2106.4	1911.3	1836.8	1848.3	1498.0
47.5°	3008.4	3011.1	3042.1	3035.0	2797.3	2482.5	2274.9	2091.3	2055.9	2066.5	1651.4
50°	2763.6	2788.5	2926.8	3043.0	2886.0	2619.9	2456.8	2316.6	2353.0	2368.9	1919.3
52.5°	2279.4	2321.1	2561.4	2826.6	2820.4	2689.1	2644.8	2603.1	2766.3	2794.7	2314.8
55°	1732.1	1759.6	2072.7	2421.3	2534.8	2632.4	2808.9	2966.7	3313.5	3307.3	2716.6
57.5°	1294.0	1319.7	1589.3	1976.0	2125.9	2386.7	2893.1	3382.7	3856.3	3880.2	3093.6
60°	951.7	971.2	1200.9	1518.4	1734.8	2010.6	2859.4	3792.4	4481.6	4454.1	3426.1
62.5°	704.2	714.9	880.7	1087.4	1374.7	1638.1	2647.4	4072.7	4980.9	4925.0	3611.5
65°	544.6	548.1	634.1	744.1	999.6	1273.6	2331.7	4115.3	5256.7	5197.3	3608.0
66°	485.1	487.8	550.8	635.9	850.6	1114.9	2193.3	4047.0	5300.2	5237.2	3563.6
67.5°	407.1	405.3	442.6	498.4	638.6	860.3	1947.7	3847.4	5248.8	5216.8	3421.7
70°	301.6	302.4	321.1	334.4	373.4	476.3	1406.6	3337.5	4837.2	4835.5	3032.4
72.5°	223.5	226.2	240.4	243.0	233.3	258.1	810.6	2654.5	3869.6	3870.5	2267.0
75°	167.6	172.1	176.5	178.3	169.4	163.2	366.3	1786.2	2545.4	2526.8	1283.4
77.5°	127.7	129.5	133.0	130.4	128.6	112.6	152.5	870.9	1256.8	1145.0	416.0
80°	93.1	93.1	96.7	93.1	92.2	80.7	83.4	279.4	369.0	306.9	89.6
82.5°	58.5	57.6	60.3	59.4	57.6	51.4	48.8	78.0	85.1	76.3	43.5
85°	32.8	31.9	31.0	30.2	27.5	23.1	26.6	29.3	39.0	39.9	31.0
87.5°	11.5	11.5	10.6	9.8	8.0	8.0	9.8	9.8	14.2	14.2	16.0
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°	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2
2.5°	542.8	533.0	518.8	500.2	486.9	473.6	459.4	451.4	439.9	437.2	440.8
5°	552.5	534.8	499.3	460.3	426.6	396.5	368.1	351.2	334.4	328.2	330.8
7.5°	572.9	542.8	482.5	419.5	363.6	318.4	284.7	265.2	250.1	243.9	245.7
10°	603.1	557.0	466.5	373.4	301.6	253.7	225.3	212.9	204.0	200.4	201.3
12.5°	639.5	577.4	446.1	327.3	248.3	206.7	193.3	190.7	188.9	187.1	188.0
15°	680.3	595.1	422.2	282.0	206.7	183.6	179.2	178.3	177.4	177.4	177.4
17.5°	722.8	611.1	395.6	239.5	180.0	169.4	166.7	166.7	166.7	167.6	167.6
20°	762.7	623.5	364.5	201.3	165.0	156.1	154.3	154.3	155.2	156.1	156.1
22.5°	801.8	628.8	328.2	174.7	152.5	144.6	141.9	141.9	141.9	142.8	142.8
25°	835.5	628.8	291.8	157.9	141.9	133.9	130.4	129.5	130.4	130.4	130.4
27.5°	863.9	626.2	256.3	146.3	131.3	123.3	119.7	118.8	120.6	121.5	121.5
30°	894.0	622.6	227.9	135.7	122.4	114.4	110.9	110.9	113.5	117.1	117.1
32.5°	923.3	625.3	205.8	126.8	113.5	107.3	103.8	104.7	110.0	115.3	115.3
35°	954.3	630.6	192.5	120.6	107.3	101.1	98.4	101.1	106.4	111.8	111.8
37.5°	985.4	636.8	184.5	115.3	102.0	95.8	94.0	97.6	103.8	109.1	110.0
40°	1018.2	642.1	175.6	110.0	98.4	91.4	90.5	94.0	102.0	107.3	108.2
42.5°	1059.0	652.8	165.0	105.5	94.9	86.0	86.9	89.6	97.6	105.5	106.4
45°	1138.8	686.5	154.3	101.1	90.5	83.4	81.6	83.4	92.2	101.1	102.9
47.5°	1288.7	762.7	142.8	96.7	86.0	81.6	74.5	76.3	84.3	94.0	94.9
50°	1576.0	925.1	136.6	92.2	82.5	75.4	67.4	67.4	73.6	82.5	82.5
52.5°	2023.9	1216.0	140.1	88.7	78.0	69.2	61.2	60.3	63.9	70.1	70.1
55°	2507.3	1535.2	153.4	85.1	72.7	65.6	56.8	52.3	55.0	58.5	58.5
57.5°	2890.5	1695.8	189.8	83.4	66.5	63.0	51.4	45.2	47.9	51.4	51.4
60°	3059.0	1601.8	230.6	85.1	62.1	58.5	46.1	39.9	44.3	47.9	48.8
62.5°	2922.4	1318.8	247.4	80.7	55.9	52.3	45.2	37.3	42.6	45.2	46.1
65°	2627.0	1002.2	193.3	70.1	51.4	45.2	40.8	35.5	39.9	42.6	42.6
66°	2486.9	873.6	165.0	64.7	49.7	42.6	39.0	35.5	39.0	40.8	41.7
67.5°	2269.6	689.1	122.4	56.8	46.1	39.0	36.4	33.7	37.3	39.0	39.0
70°	1774.7	410.6	73.6	44.3	39.9	34.6	32.8	31.0	33.7	34.6	34.6
72.5°	1111.3	195.1	47.0	32.8	33.7	32.8	27.5	29.3	30.2	31.0	31.0
75°	538.4	77.2	31.9	23.9	27.5	31.0	22.2	25.7	26.6	28.4	27.5
77.5°	149.9	37.3	20.4	17.7	23.9	23.9	16.9	20.4	23.9	30.2	27.5
80°	43.5	23.9	13.3	13.3	16.9	16.9	11.5	14.2	16.0	17.7	18.6
82.5°	30.2	16.0	8.9	9.8	9.8	10.6	7.1	7.1	8.9	8.9	9.8
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°	9.8	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)