

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: P1210790

Luminaire Tested: **ARCH3-70-740-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210790
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: ARCH3-70-740-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 580mA 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: 8569 lumens
Efficiency: N/A
Efficacy: 117.2 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

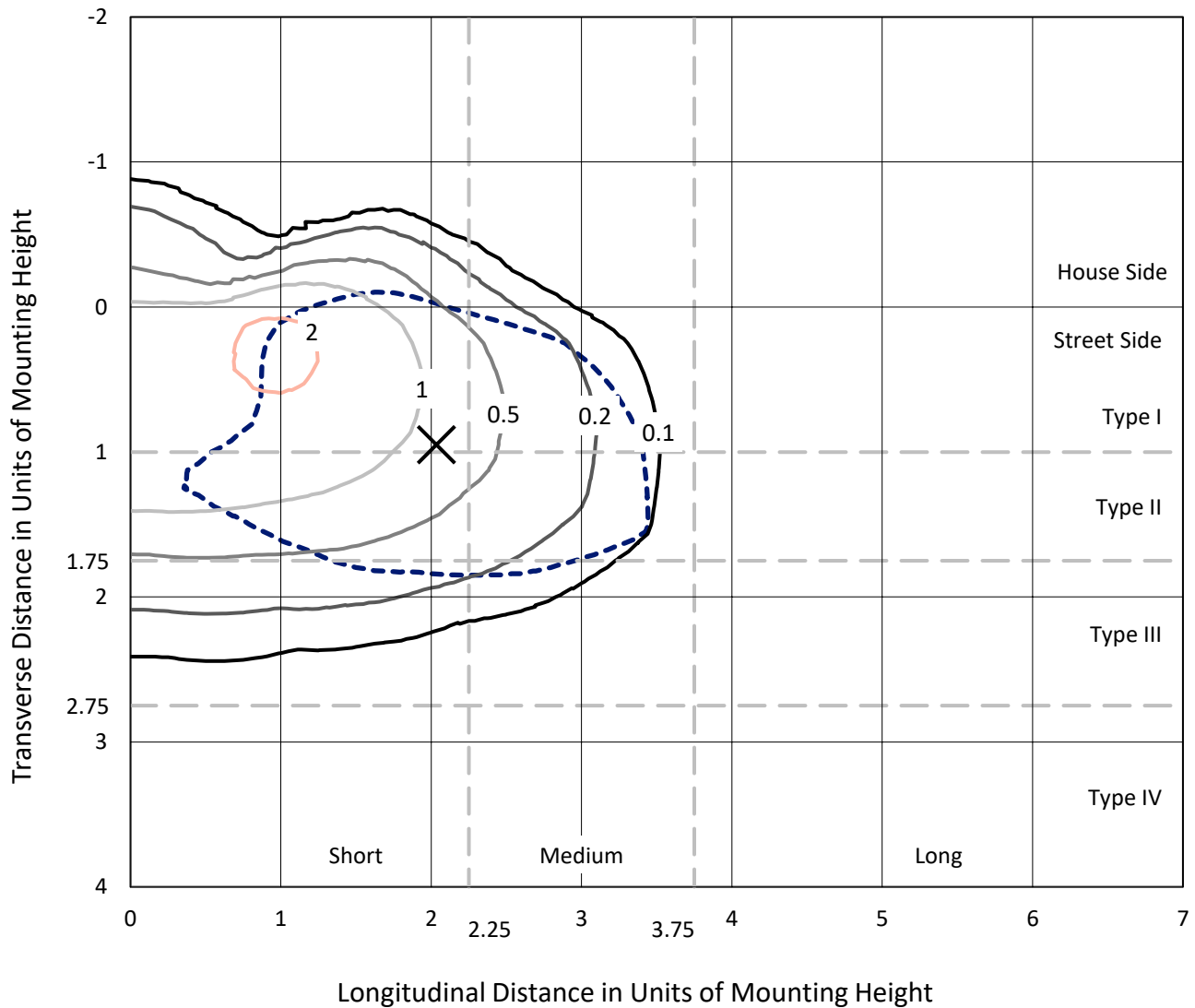
Input Watts (W): 73.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

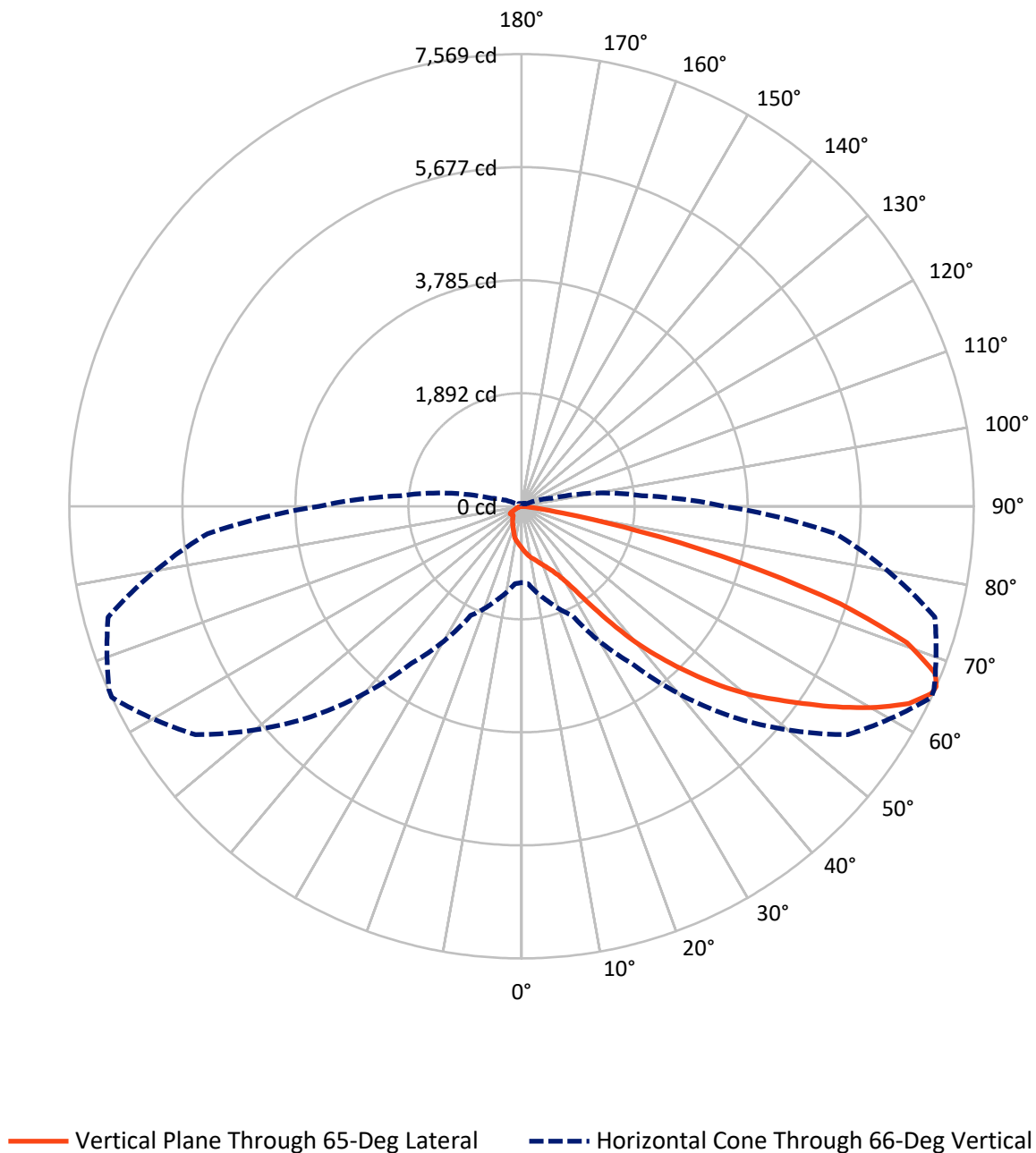


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1011.3	0.0	1011.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	7557.7	0.0	7557.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	8569.0	0.0	8569.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	0.8
10°-20°	195.9	2.3
20°-30°	358.6	4.2
30°-40°	728.7	8.5
40°-50°	1538.8	18.0
50°-60°	2365.6	27.6
60°-70°	2381.1	27.8
70°-80°	889.7	10.4
80°-90°	44.4	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°	8569.0	100.0
0°-180°	8569.0	100.0

Coefficient of Utilization



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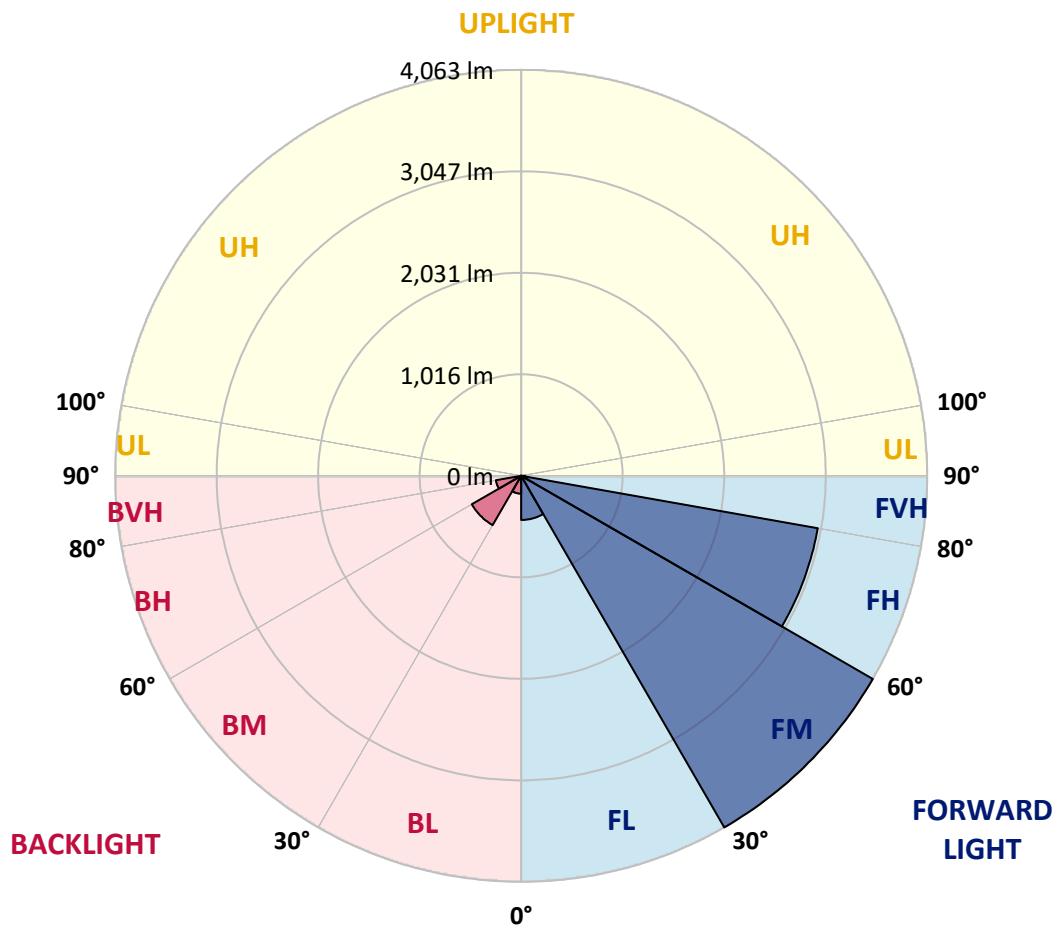
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	441.7	5.2			
FM	(30°-60°)	4062.8	47.4			
FH	(60°-80°)	3013.9	35.2			G2/5000
FVH	(80°-90°)	39.2	0.5			G1/100
BL	(0°-30°)	179.0	2.1	B1/500		
BM	(30°-60°)	570.2	6.7	B1/1000		
BH	(60°-80°)	256.9	3.0	B1/500		G1/500
BVH	(80°-90°)	5.2	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°	698.1	698.1	698.1	698.1	698.1	698.1	698.1	698.1	698.1	698.1	698.1
2.5°	796.1	797.6	794.5	788.3	782.1	774.3	761.9	741.7	738.6	724.6	709.0
5°	850.5	853.6	849.0	847.4	844.3	833.4	816.3	786.8	783.6	755.7	719.9
7.5°	869.2	873.8	870.7	870.7	870.7	866.1	858.3	831.9	827.2	791.4	737.0
10°	883.2	886.3	884.7	890.9	895.6	892.5	887.8	872.3	867.6	831.9	760.3
12.5°	904.9	906.5	908.0	911.1	918.9	922.0	920.5	906.5	903.4	878.5	789.9
15°	925.1	925.1	926.7	940.7	951.6	957.8	959.3	948.5	945.4	925.1	827.2
17.5°	943.8	945.4	950.0	965.6	984.2	996.7	1004.4	999.8	995.1	979.6	870.7
20°	971.8	974.9	979.6	1001.3	1020.0	1040.2	1055.8	1054.2	1052.6	1041.8	922.0
22.5°	1020.0	1023.1	1030.9	1051.1	1069.7	1094.6	1121.1	1119.5	1114.8	1107.1	982.7
25°	1093.1	1093.1	1097.7	1114.8	1138.2	1167.7	1192.6	1197.2	1192.6	1187.9	1058.9
27.5°	1184.8	1186.4	1186.4	1205.0	1226.8	1264.1	1295.2	1299.9	1299.9	1295.2	1161.5
30°	1312.3	1307.6	1304.5	1320.1	1343.4	1397.8	1452.2	1461.6	1456.9	1464.7	1306.1
32.5°	1531.5	1523.8	1497.3	1500.4	1514.4	1589.1	1680.8	1713.5	1711.9	1725.9	1539.3
35°	1834.7	1819.2	1780.3	1747.7	1746.1	1827.0	1966.9	2089.7	2088.2	2136.4	1893.8
37.5°	2176.8	2197.0	2123.9	2068.0	2050.9	2114.6	2295.0	2560.9	2574.8	2658.8	2358.7
40°	2633.9	2646.4	2553.1	2473.8	2392.9	2416.3	2654.1	3067.7	3092.6	3185.9	2823.6
42.5°	3032.0	3044.4	2990.0	2893.6	2791.0	2747.4	3016.4	3528.0	3548.2	3677.2	3302.5
45°	3302.5	3311.9	3330.5	3339.8	3223.2	3133.0	3459.6	4000.7	4025.5	4174.8	3770.5
47.5°	3514.0	3521.8	3559.1	3652.4	3629.0	3557.5	3910.5	4492.0	4498.2	4664.6	4226.1
50°	3611.9	3630.6	3722.3	3865.4	3968.0	3988.2	4400.3	4956.9	4974.0	5132.6	4656.8
52.5°	3503.1	3509.3	3741.0	4010.0	4216.8	4422.0	4891.6	5387.6	5437.3	5555.5	5044.0
55°	3136.2	3181.2	3532.6	4005.3	4412.7	4834.1	5417.1	5852.5	5897.6	5972.2	5384.5
57.5°	2710.1	2759.9	3187.5	3804.7	4496.7	5215.0	5903.8	6346.9	6378.0	6398.3	5697.0
60°	2341.6	2388.3	2828.3	3420.7	4412.7	5484.0	6356.3	6838.3	6864.7	6810.3	5854.1
62.5°	1889.2	1935.8	2378.9	2912.3	4083.1	5538.4	6692.1	7275.2	7286.1	7138.4	5757.6
65°	1424.3	1455.3	1825.4	2282.5	3506.2	5249.2	6768.3	7547.3	7536.4	7233.2	5468.4
66°	1276.5	1303.0	1629.5	2018.2	3206.1	4984.9	6665.7	7569.1	7558.2	7163.2	5278.8
67.5°	1100.8	1108.6	1377.6	1651.3	2682.1	4423.6	6353.2	7469.6	7478.9	6970.4	4932.0
70°	859.8	858.3	1013.8	1149.0	1831.6	3147.0	5299.0	6842.9	6888.0	6242.8	4205.9
72.5°	550.4	531.8	621.9	702.8	1066.6	1827.0	3863.8	5577.3	5653.5	4904.0	3133.0
75°	328.1	309.4	331.2	351.4	511.5	878.5	2271.7	3795.4	3868.5	3143.9	1864.3
77.5°	245.7	237.9	239.4	222.3	227.0	329.6	1037.1	2005.8	2058.6	1287.4	707.5
80°	188.1	167.9	157.0	164.8	149.3	130.6	385.6	690.4	723.0	304.8	147.7
82.5°	125.9	108.8	101.1	110.4	94.8	73.1	93.3	133.7	130.6	82.4	57.5
85°	65.3	56.0	56.0	56.0	48.2	35.8	40.4	54.4	54.4	43.5	34.2
87.5°	18.7	17.1	20.2	18.7	14.0	14.0	15.5	18.7	18.7	17.1	15.5
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°	698.1	698.1	698.1	698.1	698.1	698.1	698.1	698.1	698.1	698.1	698.1
2.5°	696.6	690.4	673.3	660.8	648.4	637.5	625.1	621.9	615.7	617.3	614.2
5°	701.2	684.1	654.6	626.6	604.8	586.2	562.9	553.5	541.1	536.4	533.3
7.5°	707.5	682.6	639.0	600.2	562.9	525.5	488.2	466.5	452.5	446.2	441.6
10°	721.5	688.8	631.3	570.6	506.9	454.0	416.7	401.2	391.8	390.3	388.7
12.5°	740.1	698.1	623.5	533.3	449.4	399.6	376.3	371.6	370.1	370.1	368.5
15°	768.1	713.7	611.1	489.8	404.3	370.1	359.2	351.4	348.3	348.3	348.3
17.5°	796.1	732.3	592.4	444.7	373.2	351.4	340.5	335.8	332.7	334.3	332.7
20°	831.9	754.1	567.5	405.8	353.0	335.8	325.0	320.3	318.7	318.7	318.7
22.5°	872.3	779.0	536.4	376.3	335.8	320.3	309.4	304.8	301.6	303.2	303.2
25°	926.7	810.1	503.8	346.7	318.7	304.8	292.3	286.1	286.1	287.6	289.2
27.5°	996.7	847.4	471.1	328.1	303.2	289.2	275.2	269.0	270.5	273.7	273.7
30°	1099.3	898.7	438.5	307.9	286.1	270.5	258.1	251.9	255.0	261.2	261.2
32.5°	1245.4	982.7	410.5	284.5	261.2	244.1	231.7	227.0	234.8	247.2	247.2
35°	1506.7	1136.6	393.4	261.2	234.8	214.6	199.0	194.4	205.2	220.8	220.8
37.5°	1856.5	1383.8	399.6	241.0	213.0	189.7	172.6	166.4	174.1	188.1	192.8
40°	2246.8	1682.4	454.0	223.9	192.8	169.5	152.4	146.2	150.8	157.0	158.6
42.5°	2637.0	1999.6	556.6	211.5	177.3	152.4	136.8	132.2	135.3	136.8	138.4
45°	3025.8	2313.6	685.7	203.7	163.3	138.4	122.8	122.8	124.4	124.4	124.4
47.5°	3394.3	2619.9	821.0	202.1	150.8	124.4	111.9	113.5	113.5	115.1	115.1
50°	3742.5	2893.6	957.8	206.8	139.9	111.9	102.6	102.6	102.6	104.2	102.6
52.5°	4033.3	3133.0	1100.8	214.6	129.1	102.6	93.3	93.3	93.3	94.8	93.3
55°	4308.5	3350.7	1247.0	225.5	119.7	94.8	85.5	82.4	82.4	84.0	82.4
57.5°	4532.4	3495.3	1385.4	227.0	111.9	87.1	79.3	74.6	74.6	74.6	74.6
60°	4541.7	3411.4	1425.8	199.0	102.6	79.3	71.5	65.3	66.9	66.9	66.9
62.5°	4244.8	2969.8	1145.9	149.3	91.7	71.5	65.3	59.1	59.1	59.1	59.1
65°	3661.7	2310.5	671.7	118.2	79.3	63.7	57.5	52.9	52.9	52.9	51.3
66°	3388.0	2026.0	514.7	107.3	74.6	62.2	56.0	51.3	49.8	48.2	48.2
67.5°	2941.8	1601.5	321.9	94.8	68.4	57.5	51.3	46.6	45.1	43.5	43.5
70°	2215.7	1016.9	157.0	73.1	59.1	49.8	45.1	40.4	38.9	37.3	35.8
72.5°	1554.9	595.5	82.4	56.0	48.2	43.5	38.9	34.2	32.7	31.1	31.1
75°	878.5	287.6	54.4	40.4	38.9	35.8	32.7	28.0	26.4	26.4	26.4
77.5°	332.7	99.5	37.3	29.5	31.1	28.0	23.3	23.3	21.8	23.3	21.8
80°	87.1	43.5	23.3	21.8	23.3	20.2	17.1	18.7	18.7	18.7	18.7
82.5°	46.6	24.9	14.0	15.5	14.0	14.0	10.9	12.4	14.0	12.4	14.0
85°	32.7	12.4	7.8	7.8	6.2	6.2	4.7	6.2	7.8	6.2	6.2
87.5°	17.1	4.7	4.7	4.7	4.7	3.1	1.6	0.0	1.6	1.6	1.6
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)