

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: P1210168

Luminaire Tested: **ARCH2-40-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210168
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: ARCH2-40-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 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: 4540 lumens
Efficiency: N/A
Efficacy: 102.9 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

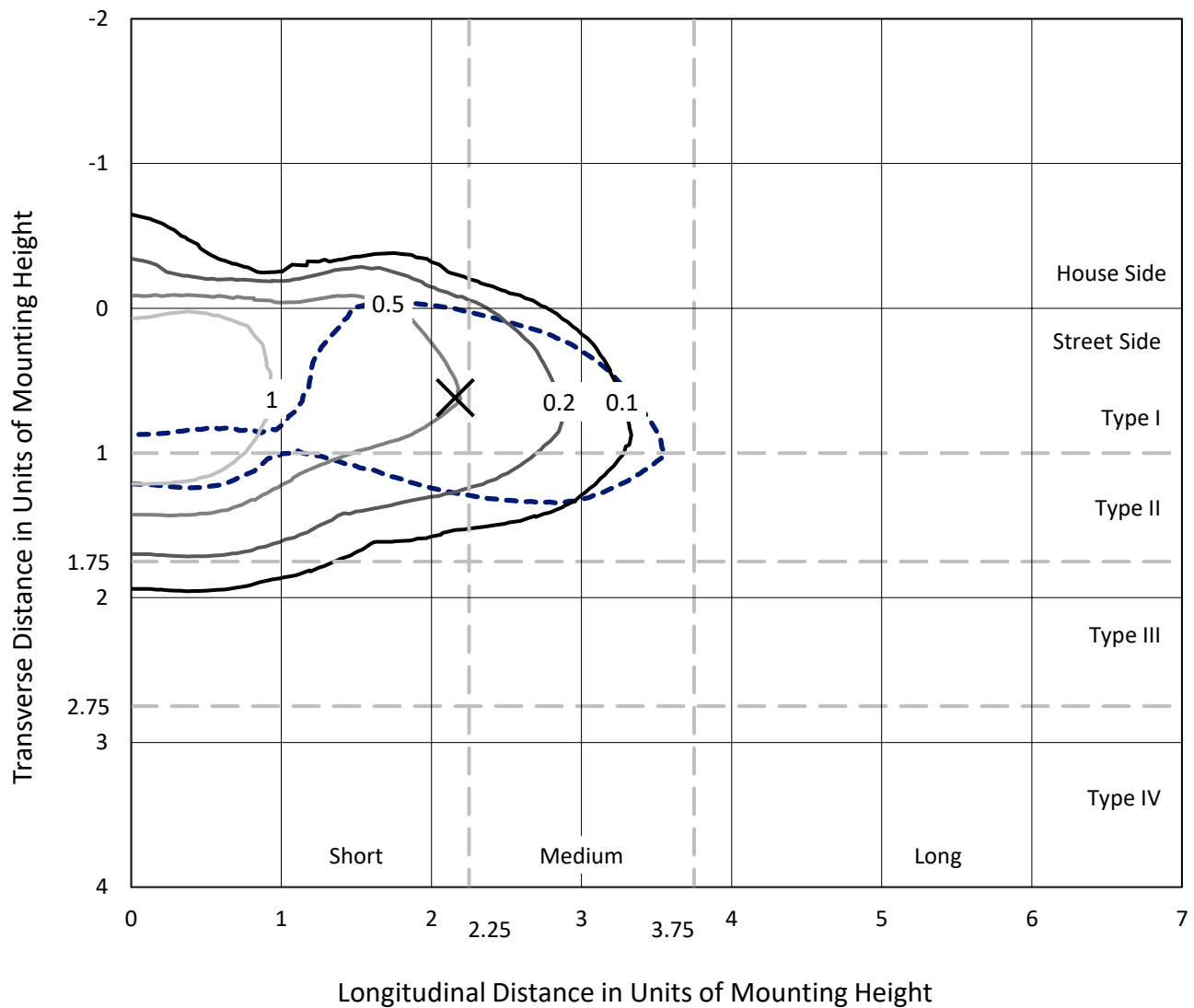
Input Watts (W): 44.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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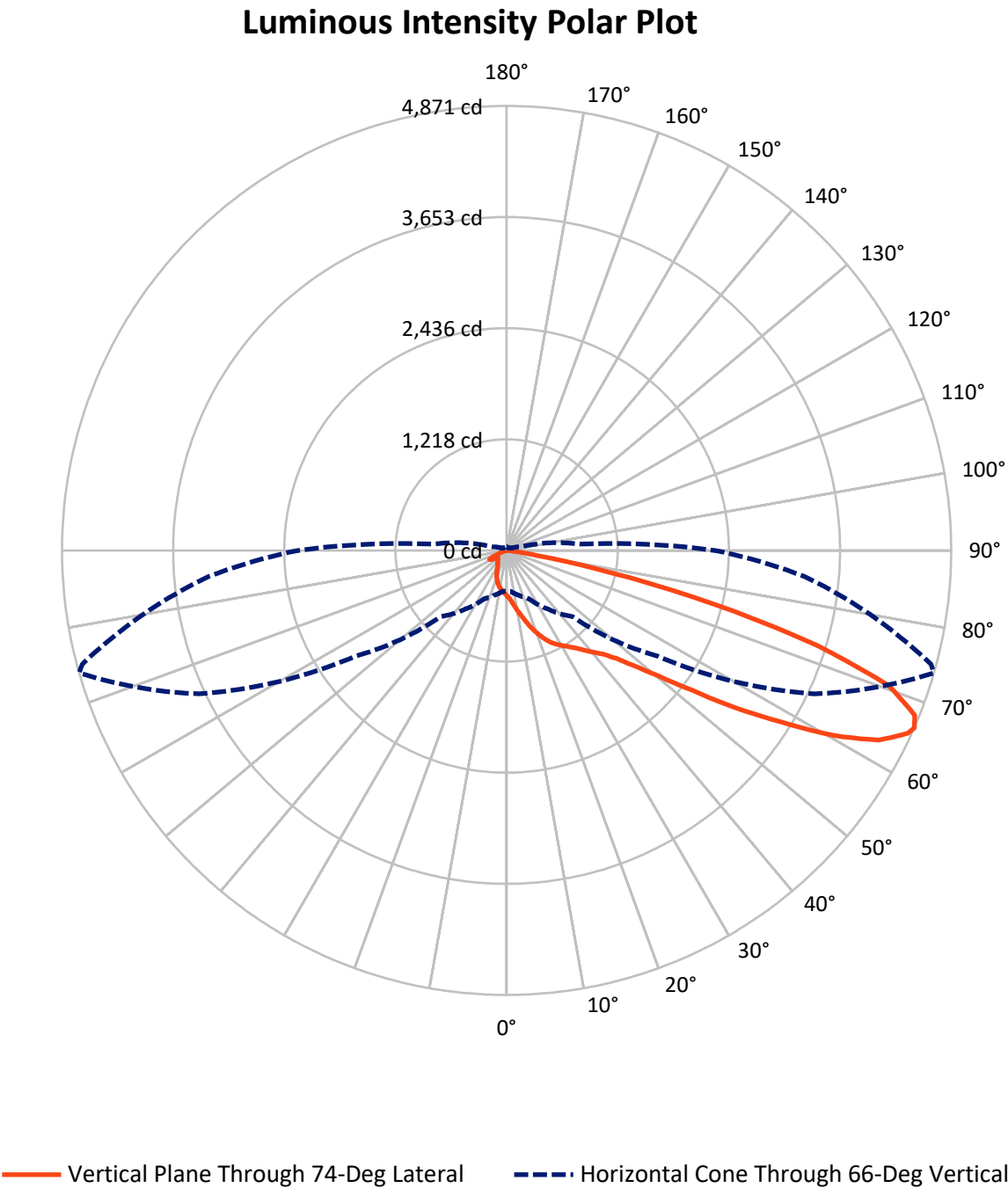
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	445.1	0.0	445.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	4094.9	0.0	4094.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	4540.0	0.0	4540.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	1.1
10°-20°	155.1	3.4
20°-30°	295.9	6.5
30°-40°	518.7	11.4
40°-50°	889.5	19.6
50°-60°	1156.8	25.5
60°-70°	1047.2	23.1
70°-80°	404.1	8.9
80°-90°	24.3	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°	4540.0	100.0
0°-180°	4540.0	100.0

Coefficient of Utilization



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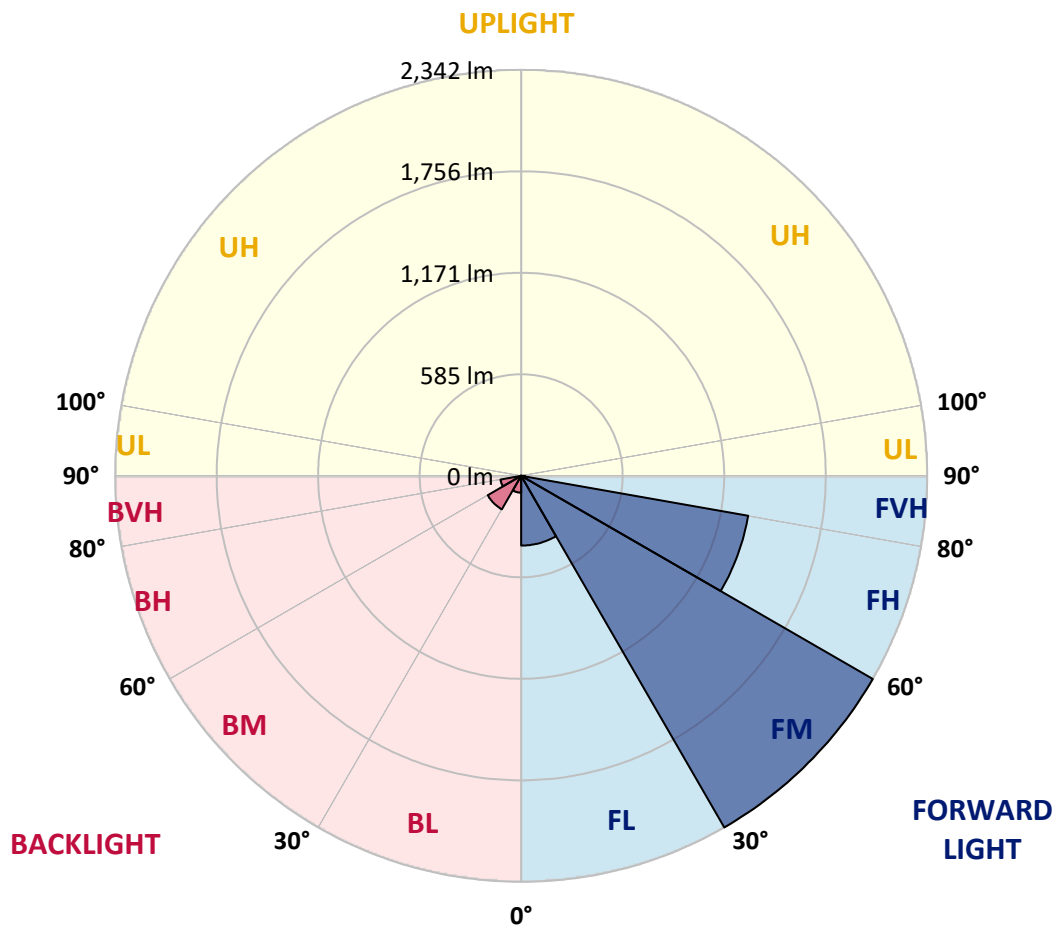
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	402.3	8.9			
FM	(30°-60°)	2342.0	51.6			
FH	(60°-80°)	1329.6	29.3			G1/1800
FVH	(80°-90°)	21.1	0.5			G1/100
BL	(0°-30°)	97.1	2.1	B0/110		
BM	(30°-60°)	223.0	4.9	B1/1000		
BH	(60°-80°)	121.7	2.7	B1/500		G1/500
BVH	(80°-90°)	3.3	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°	495.6	495.6	495.6	495.6	495.6	495.6	495.6	495.6	495.6	495.6	495.6
2.5°	595.0	590.1	581.2	580.4	573.0	564.0	548.6	532.3	520.8	519.2	505.4
5°	712.4	710.0	701.0	695.3	681.4	660.2	624.4	588.5	558.3	555.1	524.1
7.5°	743.4	745.0	746.6	752.3	747.4	737.7	710.8	660.2	613.0	605.6	551.8
10°	748.3	746.6	746.6	754.0	767.8	781.7	778.4	735.2	674.1	665.1	590.1
12.5°	801.2	803.7	798.0	794.7	792.3	799.6	824.1	805.3	738.5	731.1	636.6
15°	869.7	868.9	860.7	860.7	853.4	841.2	856.7	870.5	815.9	806.9	689.6
17.5°	919.4	922.7	921.9	926.8	924.3	908.0	899.9	928.4	895.8	884.4	749.9
20°	959.4	968.3	971.6	987.1	994.4	983.0	961.8	979.7	972.4	961.8	811.0
22.5°	1001.8	1009.1	1014.8	1041.7	1062.1	1059.6	1032.7	1028.7	1046.6	1036.8	871.3
25°	1044.1	1047.4	1064.5	1097.1	1129.7	1137.9	1110.2	1078.4	1113.4	1104.5	925.1
27.5°	1090.6	1092.2	1112.6	1152.6	1198.2	1215.3	1193.3	1134.6	1164.8	1164.8	974.0
30°	1175.4	1191.7	1199.8	1235.7	1275.6	1299.3	1273.2	1194.1	1210.4	1217.8	1025.4
32.5°	1358.0	1360.4	1358.0	1373.4	1381.6	1395.4	1365.3	1261.0	1256.9	1265.0	1075.9
35°	1636.7	1626.9	1600.9	1578.0	1530.8	1504.7	1465.5	1346.5	1313.9	1325.4	1125.7
37.5°	1975.0	1961.1	1901.6	1831.5	1730.5	1626.1	1577.2	1450.9	1386.5	1401.2	1179.4
40°	2297.8	2288.8	2217.9	2131.5	1958.7	1780.2	1676.7	1538.9	1467.2	1472.9	1234.1
42.5°	2563.5	2561.9	2502.4	2411.9	2190.2	1946.5	1794.0	1625.3	1551.9	1560.9	1291.1
45°	2764.8	2749.3	2705.3	2640.1	2414.3	2119.3	1935.9	1756.5	1688.1	1698.7	1376.7
47.5°	2764.8	2767.3	2795.8	2789.3	2570.8	2281.5	2090.7	1922.0	1889.4	1899.2	1517.7
50°	2539.8	2562.7	2689.8	2796.6	2652.3	2407.8	2257.8	2129.0	2162.5	2177.1	1763.9
52.5°	2094.8	2133.1	2354.0	2597.7	2592.0	2471.4	2430.6	2392.3	2542.3	2568.4	2127.4
55°	1591.9	1617.2	1904.9	2225.2	2329.6	2419.2	2581.4	2726.5	3045.2	3039.5	2496.6
57.5°	1189.2	1212.9	1460.7	1816.0	1953.8	2193.4	2658.9	3108.8	3544.1	3566.1	2843.1
60°	874.6	892.5	1103.6	1395.4	1594.3	1847.8	2627.9	3485.4	4118.7	4093.4	3148.7
62.5°	647.2	657.0	809.4	999.3	1263.4	1505.5	2433.1	3742.9	4577.6	4526.2	3319.1
65°	500.5	503.7	582.8	683.9	918.6	1170.5	2142.9	3782.1	4831.1	4776.5	3315.8
66°	445.9	448.3	506.2	584.4	781.7	1024.6	2015.7	3719.3	4871.0	4813.2	3275.1
67.5°	374.1	372.5	406.7	458.1	586.9	790.6	1790.0	3535.9	4823.8	4794.4	3144.7
70°	277.1	277.9	295.1	307.3	343.2	437.7	1292.7	3067.2	4445.6	4443.9	2786.8
72.5°	205.4	207.9	220.9	223.3	214.4	237.2	745.0	2439.6	3556.3	3557.1	2083.4
75°	154.1	158.1	162.2	163.8	155.7	150.0	336.6	1641.6	2339.3	2322.2	1179.4
77.5°	117.4	119.0	122.3	119.8	118.2	103.5	140.2	800.4	1155.0	1052.3	382.3
80°	85.6	85.6	88.8	85.6	84.8	74.2	76.6	256.8	339.1	282.0	82.3
82.5°	53.8	53.0	55.4	54.6	53.0	47.3	44.8	71.7	78.2	70.1	39.9
85°	30.2	29.3	28.5	27.7	25.3	21.2	24.5	26.9	35.9	36.7	28.5
87.5°	10.6	10.6	9.8	9.0	7.3	7.3	9.0	9.0	13.0	13.0	14.7
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°	495.6	495.6	495.6	495.6	495.6	495.6	495.6	495.6	495.6	495.6	495.6
2.5°	498.8	489.9	476.8	459.7	447.5	435.3	422.2	414.9	404.3	401.8	405.1
5°	507.8	491.5	458.9	423.0	392.1	364.3	338.3	322.8	307.3	301.6	304.0
7.5°	526.6	498.8	443.4	385.5	334.2	292.6	261.6	243.7	229.9	224.2	225.8
10°	554.3	511.9	428.7	343.2	277.1	233.1	207.0	195.6	187.5	184.2	185.0
12.5°	587.7	530.6	410.0	300.8	228.2	189.9	177.7	175.2	173.6	172.0	172.8
15°	625.2	546.9	388.0	259.2	189.9	168.7	164.7	163.8	163.0	163.0	163.0
17.5°	664.3	561.6	363.5	220.1	165.5	155.7	153.2	153.2	153.2	154.1	154.1
20°	701.0	573.0	335.0	185.0	151.6	143.5	141.8	141.8	142.6	143.5	143.5
22.5°	736.8	577.9	301.6	160.6	140.2	132.9	130.4	130.4	130.4	131.2	131.2
25°	767.8	577.9	268.2	145.1	130.4	123.1	119.8	119.0	119.8	119.8	119.8
27.5°	793.9	575.5	235.6	134.5	120.6	113.3	110.0	109.2	110.9	111.7	111.7
30°	821.6	572.2	209.5	124.7	112.5	105.1	101.9	101.9	104.3	107.6	107.6
32.5°	848.5	574.6	189.1	116.6	104.3	98.6	95.4	96.2	101.1	106.0	106.0
35°	877.0	579.5	176.9	110.9	98.6	92.9	90.5	92.9	97.8	102.7	102.7
37.5°	905.6	585.2	169.5	106.0	93.7	88.0	86.4	89.7	95.4	100.3	101.1
40°	935.7	590.1	161.4	101.1	90.5	84.0	83.1	86.4	93.7	98.6	99.4
42.5°	973.2	599.9	151.6	97.0	87.2	79.1	79.9	82.3	89.7	97.0	97.8
45°	1046.6	630.9	141.8	92.9	83.1	76.6	75.0	76.6	84.8	92.9	94.6
47.5°	1184.3	701.0	131.2	88.8	79.1	75.0	68.5	70.1	77.4	86.4	87.2
50°	1448.4	850.1	125.5	84.8	75.8	69.3	61.9	61.9	67.7	75.8	75.8
52.5°	1860.1	1117.5	128.8	81.5	71.7	63.6	56.2	55.4	58.7	64.4	64.4
55°	2304.3	1410.9	141.0	78.2	66.8	60.3	52.2	48.1	50.5	53.8	53.8
57.5°	2656.4	1558.5	174.4	76.6	61.1	57.9	47.3	41.6	44.0	47.3	47.3
60°	2811.3	1472.1	211.9	78.2	57.1	53.8	42.4	36.7	40.8	44.0	44.8
62.5°	2685.8	1212.1	227.4	74.2	51.4	48.1	41.6	34.2	39.1	41.6	42.4
65°	2414.3	921.1	177.7	64.4	47.3	41.6	37.5	32.6	36.7	39.1	39.1
66°	2285.5	802.9	151.6	59.5	45.6	39.1	35.9	32.6	35.9	37.5	38.3
67.5°	2085.8	633.3	112.5	52.2	42.4	35.9	33.4	31.0	34.2	35.9	35.9
70°	1631.0	377.4	67.7	40.8	36.7	31.8	30.2	28.5	31.0	31.8	31.8
72.5°	1021.3	179.3	43.2	30.2	31.0	30.2	25.3	26.9	27.7	28.5	28.5
75°	494.8	70.9	29.3	22.0	25.3	28.5	20.4	23.6	24.5	26.1	25.3
77.5°	137.8	34.2	18.7	16.3	22.0	22.0	15.5	18.7	22.0	27.7	25.3
80°	39.9	22.0	12.2	12.2	15.5	15.5	10.6	13.0	14.7	16.3	17.1
82.5°	27.7	14.7	8.2	9.0	9.0	9.8	6.5	6.5	8.2	8.2	9.0
85°	22.0	6.5	4.9	5.7	4.1	4.9	3.3	3.3	4.1	3.3	3.3
87.5°	9.0	3.3	3.3	3.3	2.4	2.4	1.6	0.8	0.8	0.8	0.8
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)