

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: P1210842

Luminaire Tested: **ARCH3-90-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210842
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: ARCH3-90-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 735mA 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: 9707 lumens
Efficiency: N/A
Efficacy: 104.3 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): 93.1
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

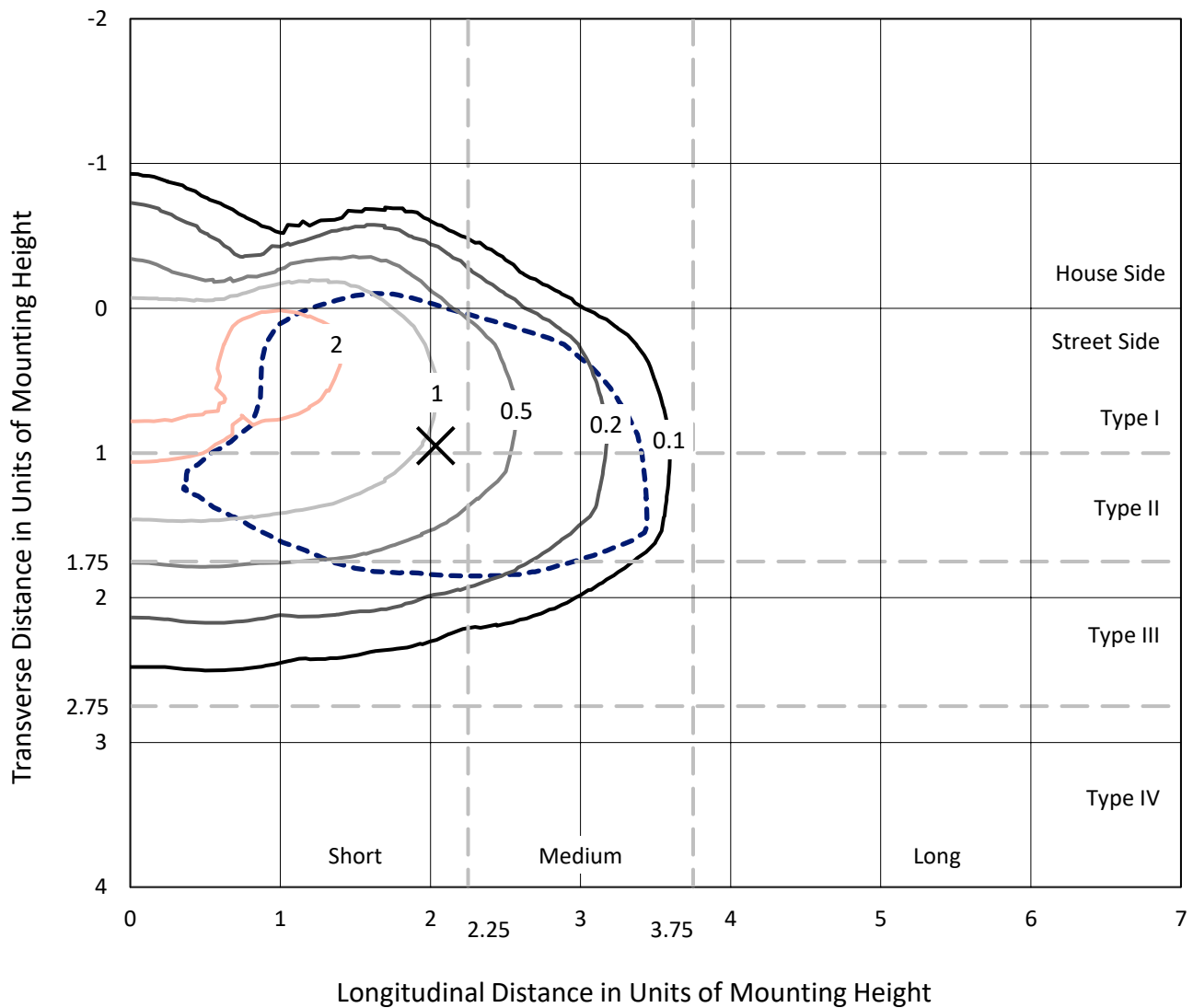


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Iso-Footcandle Lines of Horizontal Illumination

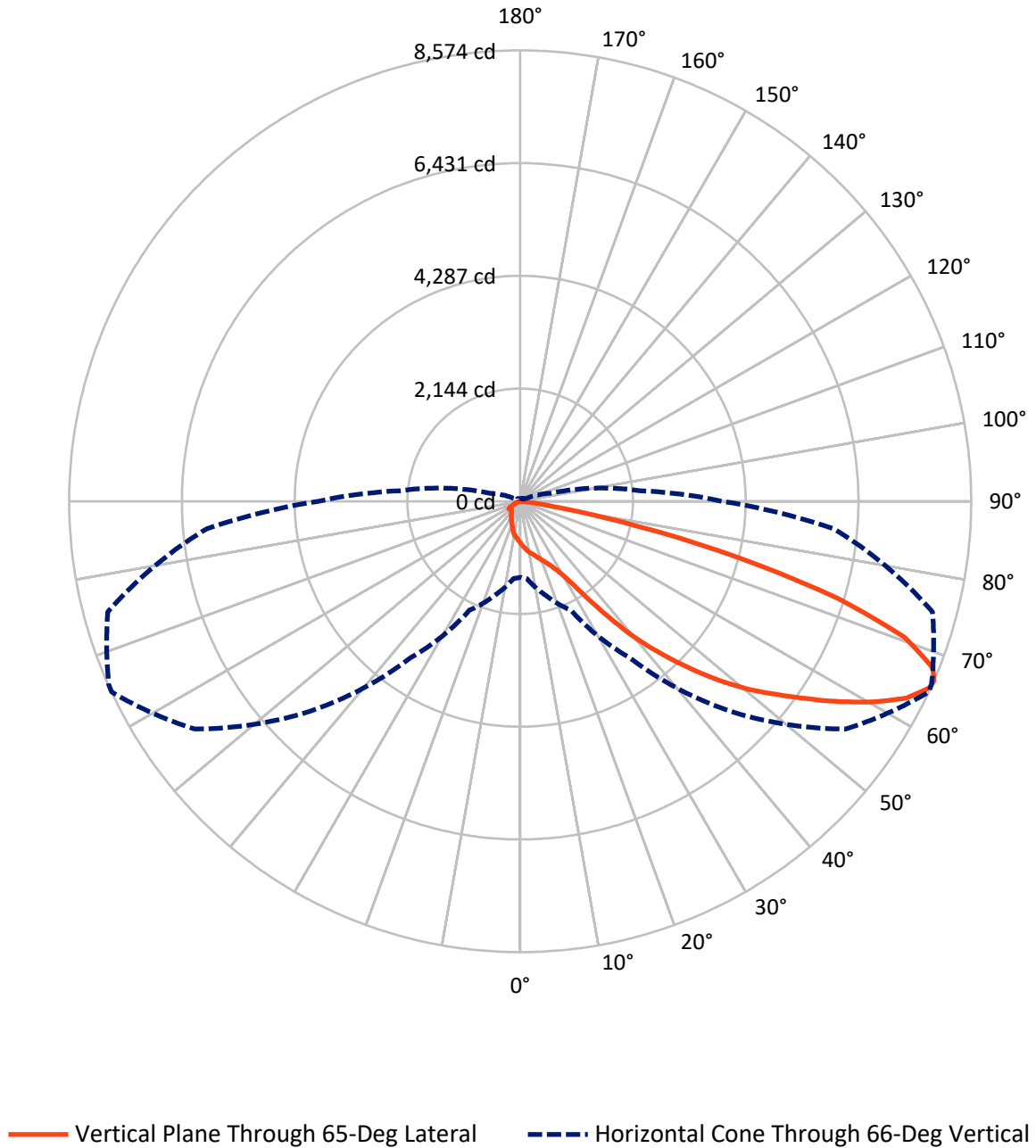
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	1145.6	0.0	1145.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	8561.4	0.0	8561.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	9707.0	0.0	9707.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	0.8
10°-20°	221.9	2.3
20°-30°	406.2	4.2
30°-40°	825.4	8.5
40°-50°	1743.1	18.0
50°-60°	2679.7	27.6
60°-70°	2697.3	27.8
70°-80°	1007.9	10.4
80°-90°	50.4	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°	9707.0	100.0
0°-180°	9707.0	100.0

Coefficient of Utilization



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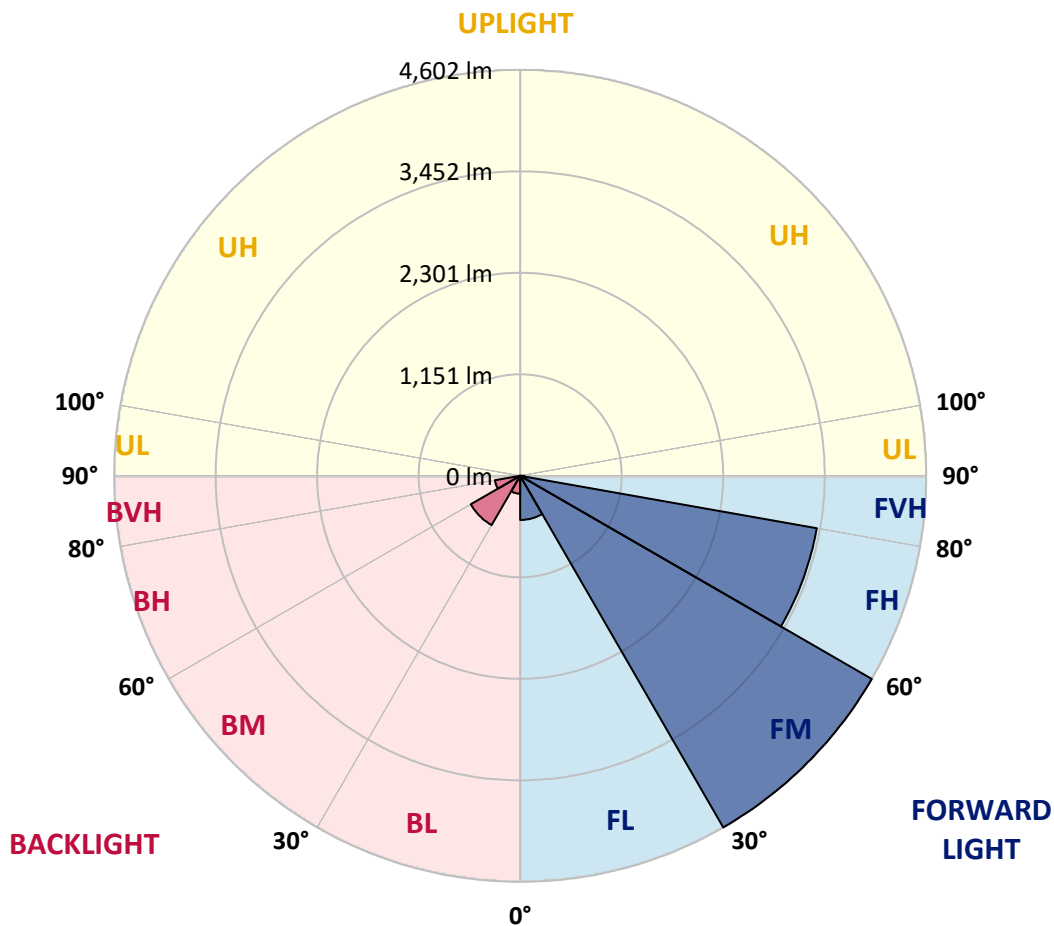
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	500.4	5.2			
FM	(30°-60°)	4602.4	47.4			
FH	(60°-80°)	3414.2	35.2			G2/5000
FVH	(80°-90°)	44.4	0.5			G1/100
BL	(0°-30°)	202.8	2.1	B1/500		
BM	(30°-60°)	645.9	6.7	B1/1000		
BH	(60°-80°)	291.0	3.0	B1/500		G1/500
BVH	(80°-90°)	5.9	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°	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8
2.5°	901.8	903.6	900.1	893.0	886.0	877.2	863.1	840.2	836.6	820.8	803.2
5°	963.5	967.0	961.7	959.9	956.4	944.1	924.7	891.2	887.7	856.0	815.5
7.5°	984.6	989.9	986.4	986.4	986.4	981.1	972.3	942.3	937.0	896.5	834.9
10°	1000.4	1004.0	1002.2	1009.3	1014.5	1011.0	1005.7	988.1	982.8	942.3	861.3
12.5°	1025.1	1026.9	1028.6	1032.2	1041.0	1044.5	1042.7	1026.9	1023.3	995.2	894.8
15°	1048.0	1048.0	1049.8	1065.6	1077.9	1085.0	1086.8	1074.4	1070.9	1048.0	937.0
17.5°	1069.1	1070.9	1076.2	1093.8	1114.9	1129.0	1137.8	1132.5	1127.3	1109.7	986.4
20°	1100.8	1104.4	1109.7	1134.3	1155.4	1178.3	1196.0	1194.2	1192.4	1180.1	1044.5
22.5°	1155.4	1159.0	1167.8	1190.7	1211.8	1240.0	1269.9	1268.2	1262.9	1254.1	1113.2
25°	1238.2	1238.2	1243.5	1262.9	1289.3	1322.8	1351.0	1356.2	1351.0	1345.7	1199.5
27.5°	1342.2	1343.9	1343.9	1365.0	1389.7	1432.0	1467.2	1472.5	1472.5	1467.2	1315.7
30°	1486.6	1481.3	1477.8	1495.4	1521.8	1583.5	1645.1	1655.7	1650.4	1659.2	1479.5
32.5°	1734.9	1726.1	1696.2	1699.7	1715.6	1800.1	1904.0	1941.0	1939.2	1955.1	1743.7
35°	2078.4	2060.8	2016.7	1979.8	1978.0	2069.6	2228.1	2367.3	2365.5	2420.1	2145.3
37.5°	2465.9	2488.8	2406.0	2342.6	2323.2	2395.4	2599.8	2900.9	2916.8	3011.9	2672.0
40°	2983.7	2997.8	2892.1	2802.3	2710.7	2737.1	3006.6	3475.1	3503.3	3609.0	3198.6
42.5°	3434.6	3448.7	3387.1	3277.9	3161.6	3112.3	3417.0	3996.5	4019.4	4165.6	3741.1
45°	3741.1	3751.7	3772.8	3783.4	3651.3	3549.1	3919.0	4532.0	4560.1	4729.2	4271.3
47.5°	3980.7	3989.5	4031.7	4137.4	4111.0	4030.0	4429.8	5088.5	5095.6	5284.1	4787.4
50°	4091.6	4112.8	4216.7	4378.7	4495.0	4517.9	4984.6	5615.2	5634.6	5814.2	5275.3
52.5°	3968.3	3975.4	4237.8	4542.5	4776.8	5009.3	5541.2	6103.1	6159.5	6293.3	5713.8
55°	3552.6	3603.7	4001.8	4537.2	4998.7	5476.0	6136.6	6629.7	6680.8	6765.4	6099.6
57.5°	3070.0	3126.4	3610.8	4310.0	5093.8	5907.6	6687.9	7189.8	7225.1	7248.0	6453.6
60°	2652.6	2705.4	3203.9	3875.0	4998.7	6212.3	7200.4	7746.4	7776.4	7714.7	6631.5
62.5°	2140.0	2192.9	2694.9	3299.0	4625.3	6273.9	7580.9	8241.4	8253.7	8086.4	6522.3
65°	1613.4	1648.6	2067.8	2585.7	3971.9	5946.3	7667.2	8549.6	8537.3	8193.8	6194.7
66°	1446.1	1476.0	1845.9	2286.2	3631.9	5646.9	7550.9	8574.3	8561.9	8114.6	5979.8
67.5°	1247.0	1255.8	1560.6	1870.6	3038.3	5011.0	7196.9	8461.5	8472.1	7896.1	5587.0
70°	974.0	972.3	1148.4	1301.6	2074.9	3565.0	6002.7	7751.7	7802.8	7071.8	4764.5
72.5°	623.5	602.4	704.5	796.1	1208.3	2069.6	4377.0	6318.0	6404.3	5555.3	3549.1
75°	371.6	350.5	375.2	398.1	579.5	995.2	2573.3	4299.5	4382.2	3561.5	2111.9
77.5°	278.3	269.5	271.2	251.9	257.2	373.4	1174.8	2272.1	2332.0	1458.4	801.4
80°	213.1	190.2	177.9	186.7	169.1	148.0	436.8	782.0	819.0	345.2	167.3
82.5°	142.7	123.3	114.5	125.1	107.4	82.8	105.7	151.5	148.0	93.4	65.2
85°	74.0	63.4	63.4	63.4	54.6	40.5	45.8	61.6	61.6	49.3	38.7
87.5°	21.1	19.4	22.9	21.1	15.9	15.9	17.6	21.1	21.1	19.4	17.6
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°	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8
2.5°	789.1	782.0	762.7	748.6	734.5	722.2	708.1	704.5	697.5	699.3	695.7
5°	794.4	775.0	741.5	709.8	685.2	664.0	637.6	627.0	613.0	607.7	604.1
7.5°	801.4	773.2	723.9	679.9	637.6	595.3	553.1	528.4	512.6	505.5	500.2
10°	817.3	780.3	715.1	646.4	574.2	514.3	472.0	454.4	443.9	442.1	440.3
12.5°	838.4	790.8	706.3	604.1	509.0	452.7	426.2	421.0	419.2	419.2	417.4
15°	870.1	808.5	692.2	554.8	458.0	419.2	406.9	398.1	394.5	394.5	394.5
17.5°	901.8	829.6	671.1	503.7	422.7	398.1	385.7	380.5	376.9	378.7	376.9
20°	942.3	854.3	642.9	459.7	399.8	380.5	368.1	362.8	361.1	361.1	361.1
22.5°	988.1	882.4	607.7	426.2	380.5	362.8	350.5	345.2	341.7	343.5	343.5
25°	1049.8	917.7	570.7	392.8	361.1	345.2	331.1	324.1	324.1	325.9	327.6
27.5°	1129.0	959.9	533.7	371.6	343.5	327.6	311.8	304.7	306.5	310.0	310.0
30°	1245.3	1018.1	496.7	348.7	324.1	306.5	292.4	285.3	288.9	295.9	295.9
32.5°	1410.8	1113.2	465.0	322.3	295.9	276.5	262.4	257.2	266.0	280.1	280.1
35°	1706.8	1287.5	445.6	295.9	266.0	243.1	225.5	220.2	232.5	250.1	250.1
37.5°	2103.1	1567.6	452.7	273.0	241.3	214.9	195.5	188.5	197.3	213.1	218.4
40°	2545.2	1905.8	514.3	253.6	218.4	192.0	172.6	165.6	170.9	177.9	179.7
42.5°	2987.3	2265.1	630.6	239.5	200.8	172.6	155.0	149.7	153.2	155.0	156.8
45°	3427.6	2620.9	776.8	230.7	184.9	156.8	139.1	139.1	140.9	140.9	140.9
47.5°	3845.0	2967.9	930.0	229.0	170.9	140.9	126.8	128.6	128.6	130.3	130.3
50°	4239.6	3277.9	1085.0	234.3	158.5	126.8	116.2	116.2	116.2	118.0	116.2
52.5°	4568.9	3549.1	1247.0	243.1	146.2	116.2	105.7	105.7	105.7	107.4	105.7
55°	4880.7	3795.7	1412.6	255.4	135.6	107.4	96.9	93.4	93.4	95.1	93.4
57.5°	5134.3	3959.5	1569.4	257.2	126.8	98.6	89.8	84.5	84.5	84.5	84.5
60°	5144.9	3864.4	1615.2	225.5	116.2	89.8	81.0	74.0	75.7	75.7	75.7
62.5°	4808.5	3364.2	1298.1	169.1	103.9	81.0	74.0	66.9	66.9	66.9	66.9
65°	4148.0	2617.4	760.9	133.9	89.8	72.2	65.2	59.9	59.9	59.9	58.1
66°	3838.0	2295.0	583.0	121.5	84.5	70.5	63.4	58.1	56.4	54.6	54.6
67.5°	3332.5	1814.2	364.6	107.4	77.5	65.2	58.1	52.8	51.1	49.3	49.3
70°	2509.9	1151.9	177.9	82.8	66.9	56.4	51.1	45.8	44.0	42.3	40.5
72.5°	1761.4	674.6	93.4	63.4	54.6	49.3	44.0	38.7	37.0	35.2	35.2
75°	995.2	325.9	61.6	45.8	44.0	40.5	37.0	31.7	29.9	29.9	29.9
77.5°	376.9	112.7	42.3	33.5	35.2	31.7	26.4	26.4	24.7	26.4	24.7
80°	98.6	49.3	26.4	24.7	26.4	22.9	19.4	21.1	21.1	21.1	21.1
82.5°	52.8	28.2	15.9	17.6	15.9	15.9	12.3	14.1	15.9	14.1	15.9
85°	37.0	14.1	8.8	8.8	7.0	7.0	5.3	7.0	8.8	7.0	7.0
87.5°	19.4	5.3	5.3	5.3	5.3	3.5	1.8	0.0	1.8	1.8	1.8
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)