

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: P1210090

Luminaire Tested: **ARCH2-100-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210090
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: ARCH2-100-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9545 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 103.3
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



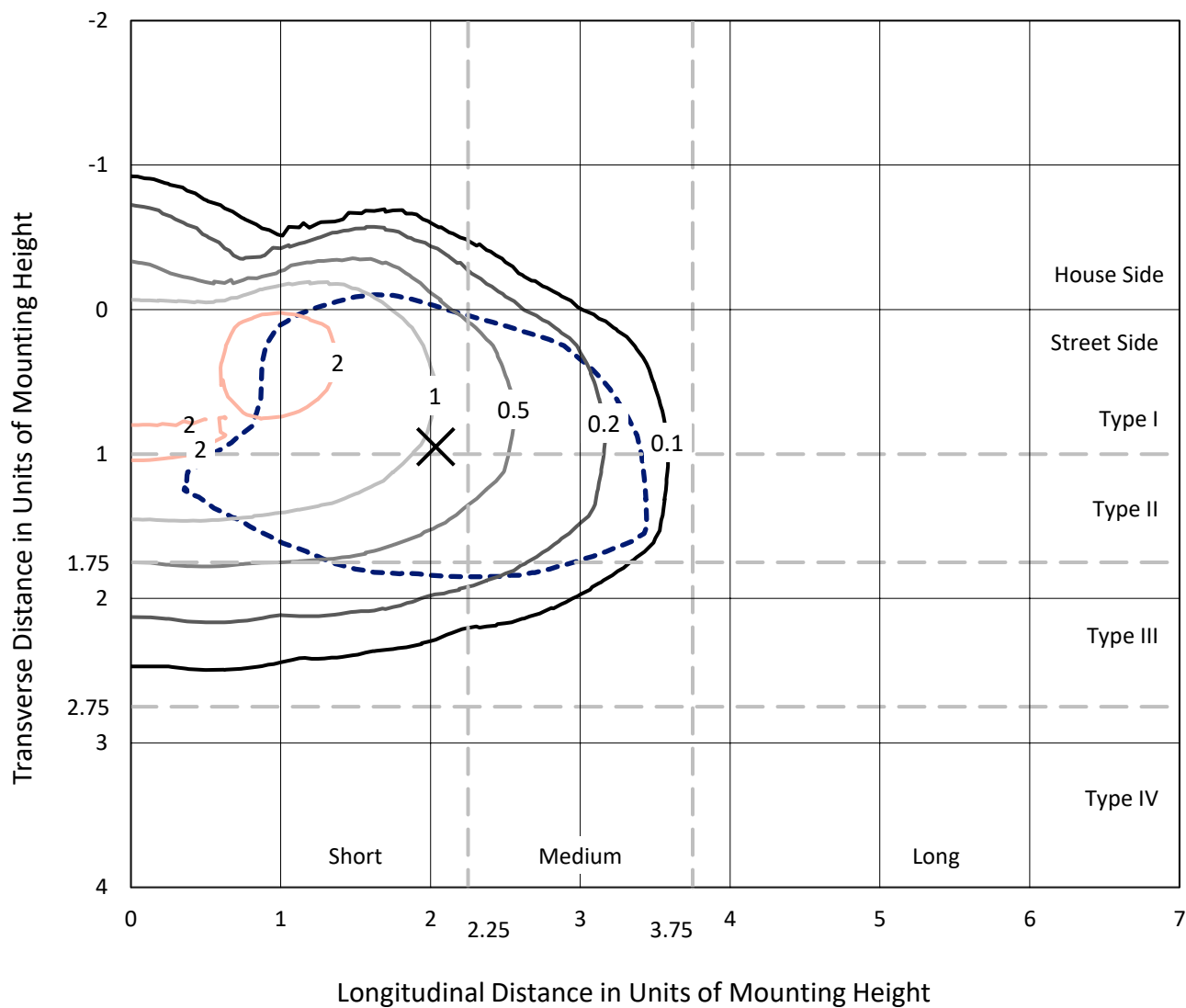
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

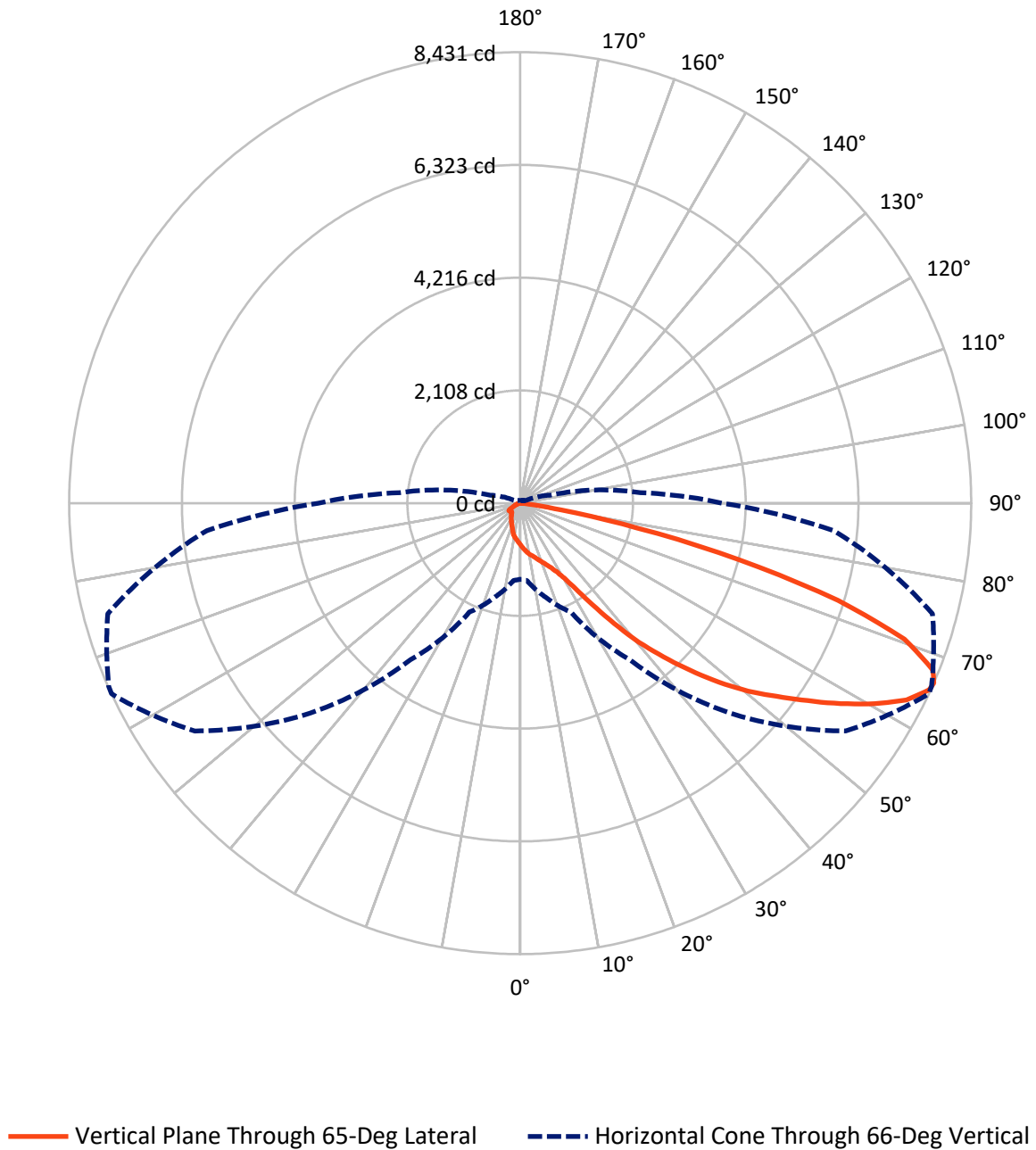
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	1126.5	0.0	1126.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	8418.5	0.0	8418.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	9545.0	0.0	9545.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	0.8
10°-20°	218.2	2.3
20°-30°	399.5	4.2
30°-40°	811.7	8.5
40°-50°	1714.0	18.0
50°-60°	2635.0	27.6
60°-70°	2652.3	27.8
70°-80°	991.0	10.4
80°-90°	49.5	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°	9545.0	100.0
0°-180°	9545.0	100.0

Coefficient of Utilization



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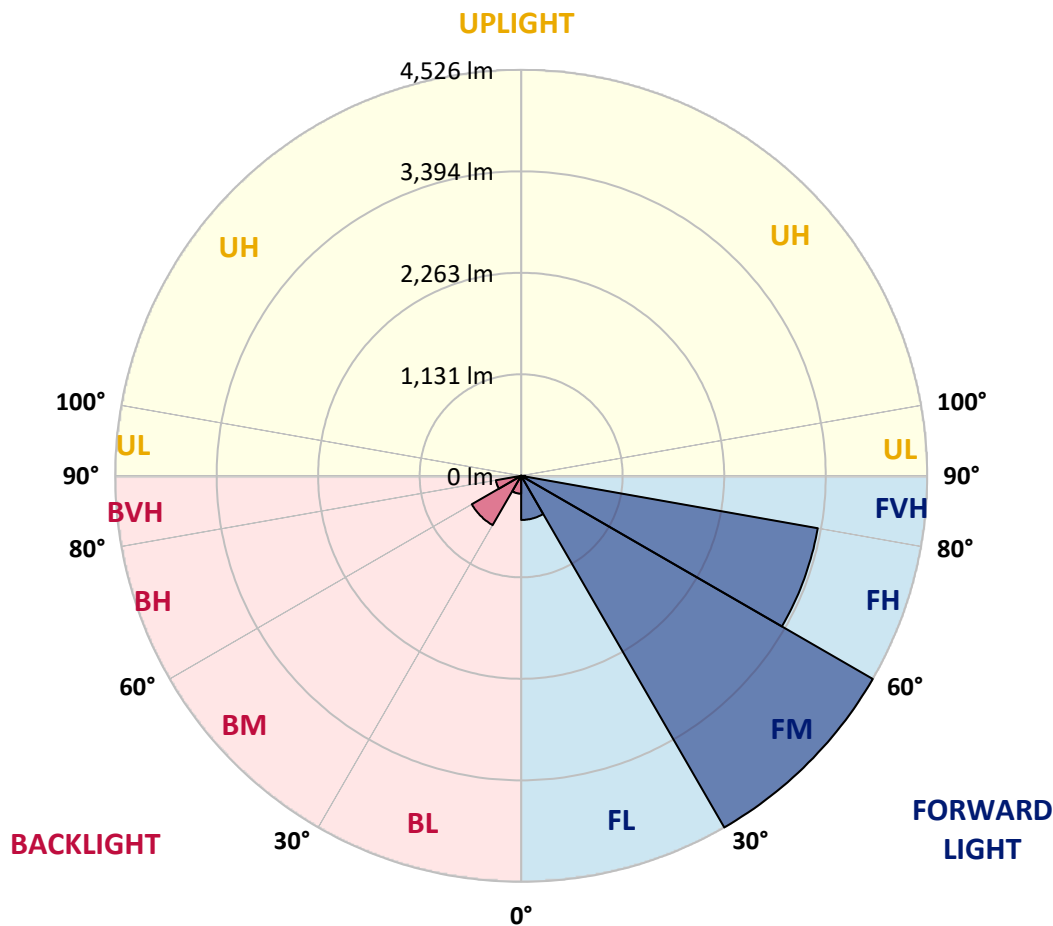
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	492.0	5.2			
FM	(30°-60°)	4525.6	47.4			
FH	(60°-80°)	3357.2	35.2			G2/5000
FVH	(80°-90°)	43.7	0.5			G1/100
BL	(0°-30°)	199.4	2.1	B1/500		
BM	(30°-60°)	635.1	6.7	B1/1000		
BH	(60°-80°)	286.2	3.0	B1/500		G1/500
BVH	(80°-90°)	5.8	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°	777.6	777.6	777.6	777.6	777.6	777.6	777.6	777.6	777.6	777.6	777.6
2.5°	886.8	888.5	885.0	878.1	871.2	862.5	848.7	826.1	822.7	807.1	789.8
5°	947.4	950.8	945.6	943.9	940.5	928.3	909.3	876.4	872.9	841.7	801.9
7.5°	968.2	973.4	969.9	969.9	969.9	964.7	956.0	926.6	921.4	881.6	820.9
10°	983.8	987.2	985.5	992.4	997.6	994.1	988.9	971.6	966.4	926.6	846.9
12.5°	1008.0	1009.7	1011.5	1014.9	1023.6	1027.1	1025.3	1009.7	1006.3	978.6	879.8
15°	1030.5	1030.5	1032.2	1047.8	1060.0	1066.9	1068.6	1056.5	1053.0	1030.5	921.4
17.5°	1051.3	1053.0	1058.2	1075.5	1096.3	1110.2	1118.8	1113.6	1108.5	1091.1	969.9
20°	1082.5	1085.9	1091.1	1115.4	1136.2	1158.7	1176.0	1174.3	1172.5	1160.4	1027.1
22.5°	1136.2	1139.6	1148.3	1170.8	1191.6	1219.3	1248.7	1247.0	1241.8	1233.2	1094.6
25°	1217.6	1217.6	1222.8	1241.8	1267.8	1300.7	1328.4	1333.6	1328.4	1323.2	1179.5
27.5°	1319.8	1321.5	1321.5	1342.3	1366.5	1408.1	1442.7	1447.9	1447.9	1442.7	1293.8
30°	1461.8	1456.6	1453.1	1470.4	1496.4	1557.0	1617.6	1628.0	1622.8	1631.5	1454.8
32.5°	1706.0	1697.3	1667.9	1671.3	1686.9	1770.1	1872.2	1908.6	1906.9	1922.5	1714.6
35°	2043.7	2026.4	1983.1	1946.7	1945.0	2035.1	2190.9	2327.8	2326.0	2379.7	2109.5
37.5°	2424.7	2447.3	2365.9	2303.5	2284.5	2355.5	2556.4	2852.5	2868.1	2961.6	2627.4
40°	2933.9	2947.8	2843.9	2755.5	2665.5	2691.5	2956.5	3417.2	3444.9	3548.8	3145.2
42.5°	3377.3	3391.2	3330.6	3223.2	3108.9	3060.4	3360.0	3929.8	3952.3	4096.1	3678.7
45°	3678.7	3689.1	3709.9	3720.2	3590.3	3489.9	3853.6	4456.3	4484.0	4650.3	4200.0
47.5°	3914.2	3922.9	3964.5	4068.4	4042.4	3962.7	4355.9	5003.6	5010.6	5195.9	4707.5
50°	4023.3	4044.1	4146.3	4305.6	4420.0	4442.5	4901.4	5521.5	5540.5	5717.2	5187.2
52.5°	3902.1	3909.0	4167.1	4466.7	4697.1	4925.7	5448.7	6001.2	6056.7	6188.3	5618.5
55°	3493.4	3543.6	3935.0	4461.5	4915.3	5384.7	6034.1	6519.1	6569.3	6652.4	5997.8
57.5°	3018.8	3074.2	3550.5	4238.1	5008.8	5809.0	6576.2	7069.9	7104.5	7127.0	6345.9
60°	2608.3	2660.3	3150.4	3810.3	4915.3	6108.6	7080.2	7617.1	7646.6	7586.0	6520.8
62.5°	2104.3	2156.3	2649.9	3244.0	4548.1	6169.2	7454.3	8103.8	8116.0	7951.4	6413.4
65°	1586.5	1621.1	2033.3	2542.5	3905.6	5847.1	7539.2	8406.9	8394.8	8057.1	6091.3
66°	1421.9	1451.4	1815.1	2248.1	3571.3	5552.7	7424.9	8431.2	8419.0	7979.1	5880.0
67.5°	1226.2	1234.9	1534.5	1839.3	2987.6	4927.4	7076.8	8320.3	8330.7	7764.4	5493.8
70°	957.8	956.0	1129.2	1279.9	2040.2	3505.5	5902.5	7622.3	7672.6	6953.8	4684.9
72.5°	613.1	592.3	692.8	782.8	1188.1	2035.1	4303.9	6212.5	6297.4	5462.6	3489.9
75°	365.4	344.7	368.9	391.4	569.8	978.6	2530.4	4227.7	4309.1	3502.0	2076.6
77.5°	273.6	265.0	266.7	247.7	252.9	367.2	1155.2	2234.2	2293.1	1434.1	788.0
80°	209.6	187.1	174.9	183.6	166.3	145.5	429.5	769.0	805.4	339.5	164.5
82.5°	140.3	121.2	112.6	123.0	105.6	81.4	103.9	148.9	145.5	91.8	64.1
85°	72.7	62.4	62.4	62.4	53.7	39.8	45.0	60.6	60.6	48.5	38.1
87.5°	20.8	19.1	22.5	20.8	15.6	15.6	17.3	20.8	20.8	19.1	17.3
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°	777.6	777.6	777.6	777.6	777.6	777.6	777.6	777.6	777.6	777.6	777.6
2.5°	775.9	769.0	749.9	736.1	722.2	710.1	696.2	692.8	685.9	687.6	684.1
5°	781.1	762.1	729.2	698.0	673.7	652.9	627.0	616.6	602.7	597.5	594.1
7.5°	788.0	760.3	711.8	668.5	627.0	585.4	543.8	519.6	504.0	497.1	491.9
10°	803.6	767.3	703.2	635.6	564.6	505.7	464.2	446.8	436.5	434.7	433.0
12.5°	824.4	777.6	694.5	594.1	500.5	445.1	419.1	413.9	412.2	412.2	410.5
15°	855.6	795.0	680.7	545.6	450.3	412.2	400.1	391.4	388.0	388.0	388.0
17.5°	886.8	815.8	659.9	495.3	415.7	391.4	379.3	374.1	370.6	372.4	370.6
20°	926.6	840.0	632.2	452.0	393.2	374.1	362.0	356.8	355.1	355.1	355.1
22.5°	971.6	867.7	597.5	419.1	374.1	356.8	344.7	339.5	336.0	337.7	337.7
25°	1032.2	902.3	561.2	386.2	355.1	339.5	325.6	318.7	318.7	320.4	322.1
27.5°	1110.2	943.9	524.8	365.4	337.7	322.1	306.6	299.6	301.4	304.8	304.8
30°	1224.5	1001.1	488.4	342.9	318.7	301.4	287.5	280.6	284.0	291.0	291.0
32.5°	1387.3	1094.6	457.2	316.9	291.0	271.9	258.1	252.9	261.5	275.4	275.4
35°	1678.3	1266.1	438.2	291.0	261.5	239.0	221.7	216.5	228.6	245.9	245.9
37.5°	2068.0	1541.4	445.1	268.5	237.3	211.3	192.2	185.3	194.0	209.6	214.8
40°	2502.7	1874.0	505.7	249.4	214.8	188.8	169.7	162.8	168.0	174.9	176.7
42.5°	2937.4	2227.3	620.0	235.5	197.4	169.7	152.4	147.2	150.7	152.4	154.1
45°	3370.4	2577.2	763.8	226.9	181.9	154.1	136.8	136.8	138.6	138.6	138.6
47.5°	3780.9	2918.3	914.5	225.2	168.0	138.6	124.7	126.4	126.4	128.2	128.2
50°	4168.8	3223.2	1066.9	230.4	155.9	124.7	114.3	114.3	114.3	116.0	114.3
52.5°	4492.7	3489.9	1226.2	239.0	143.8	114.3	103.9	103.9	103.9	105.6	103.9
55°	4799.3	3732.4	1389.0	251.1	133.4	105.6	95.3	91.8	91.8	93.5	91.8
57.5°	5048.7	3893.4	1543.2	252.9	124.7	97.0	88.3	83.1	83.1	83.1	83.1
60°	5059.0	3799.9	1588.2	221.7	114.3	88.3	79.7	72.7	74.5	74.5	74.5
62.5°	4728.2	3308.0	1276.5	166.3	102.2	79.7	72.7	65.8	65.8	65.8	65.8
65°	4078.8	2573.7	748.2	131.6	88.3	71.0	64.1	58.9	58.9	58.9	57.2
66°	3773.9	2256.7	573.3	119.5	83.1	69.3	62.4	57.2	55.4	53.7	53.7
67.5°	3276.9	1783.9	358.5	105.6	76.2	64.1	57.2	52.0	50.2	48.5	48.5
70°	2468.0	1132.7	174.9	81.4	65.8	55.4	50.2	45.0	43.3	41.6	39.8
72.5°	1732.0	663.3	91.8	62.4	53.7	48.5	43.3	38.1	36.4	34.6	34.6
75°	978.6	320.4	60.6	45.0	43.3	39.8	36.4	31.2	29.4	29.4	29.4
77.5°	370.6	110.8	41.6	32.9	34.6	31.2	26.0	26.0	24.2	26.0	24.2
80°	97.0	48.5	26.0	24.2	26.0	22.5	19.1	20.8	20.8	20.8	20.8
82.5°	52.0	27.7	15.6	17.3	15.6	15.6	12.1	13.9	15.6	13.9	15.6
85°	36.4	13.9	8.7	8.7	6.9	6.9	5.2	6.9	8.7	6.9	6.9
87.5°	19.1	5.2	5.2	5.2	5.2	3.5	1.7	0.0	1.7	1.7	1.7
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)