

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: P836180

Luminaire Tested: **ARCH3-150-730-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-150-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14989 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

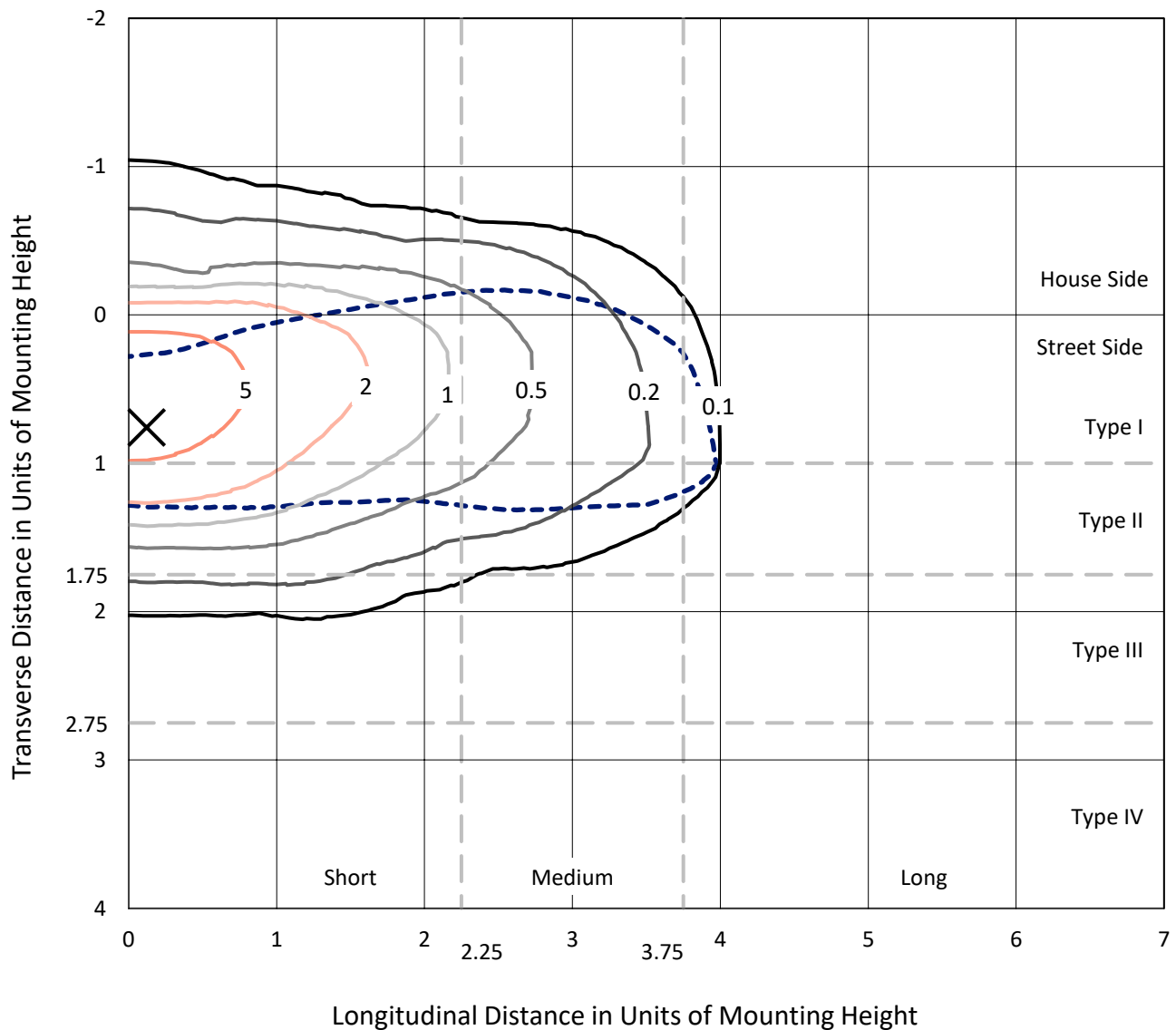
Input Watts (W): 150.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

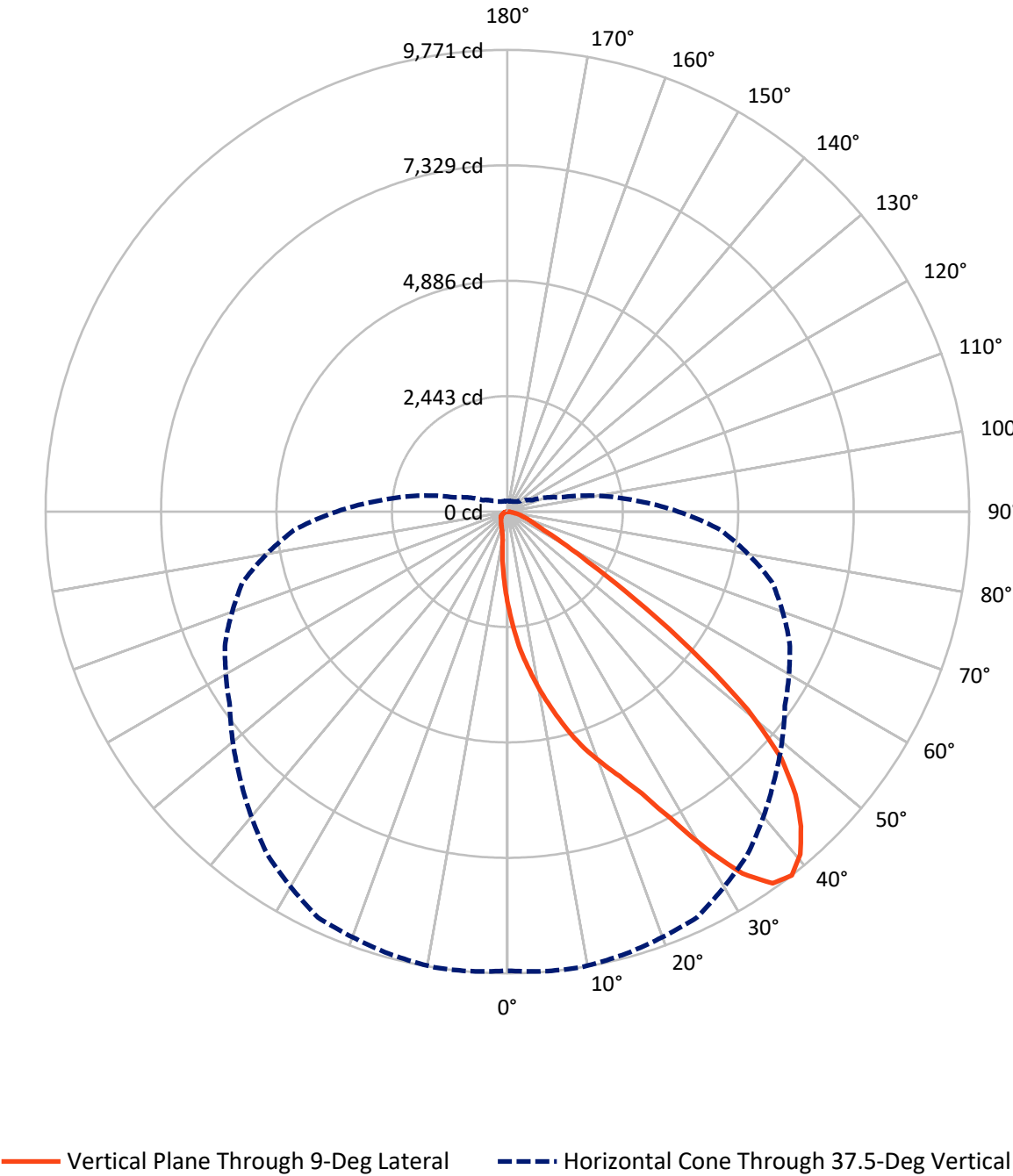
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1822.9	0.0	1822.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	13166.1	0.0	13166.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	14989.0	0.0	14989.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.2	1.3
10°-20°	692.2	4.6
20°-30°	1422.3	9.5
30°-40°	2514.1	16.8
40°-50°	3339.7	22.3
50°-60°	3167.5	21.1
60°-70°	2416.5	16.1
70°-80°	1171.5	7.8
80°-90°	65.9	0.4
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°	14989.0	100.0
0°-180°	14989.0	100.0

Coefficient of Utilization



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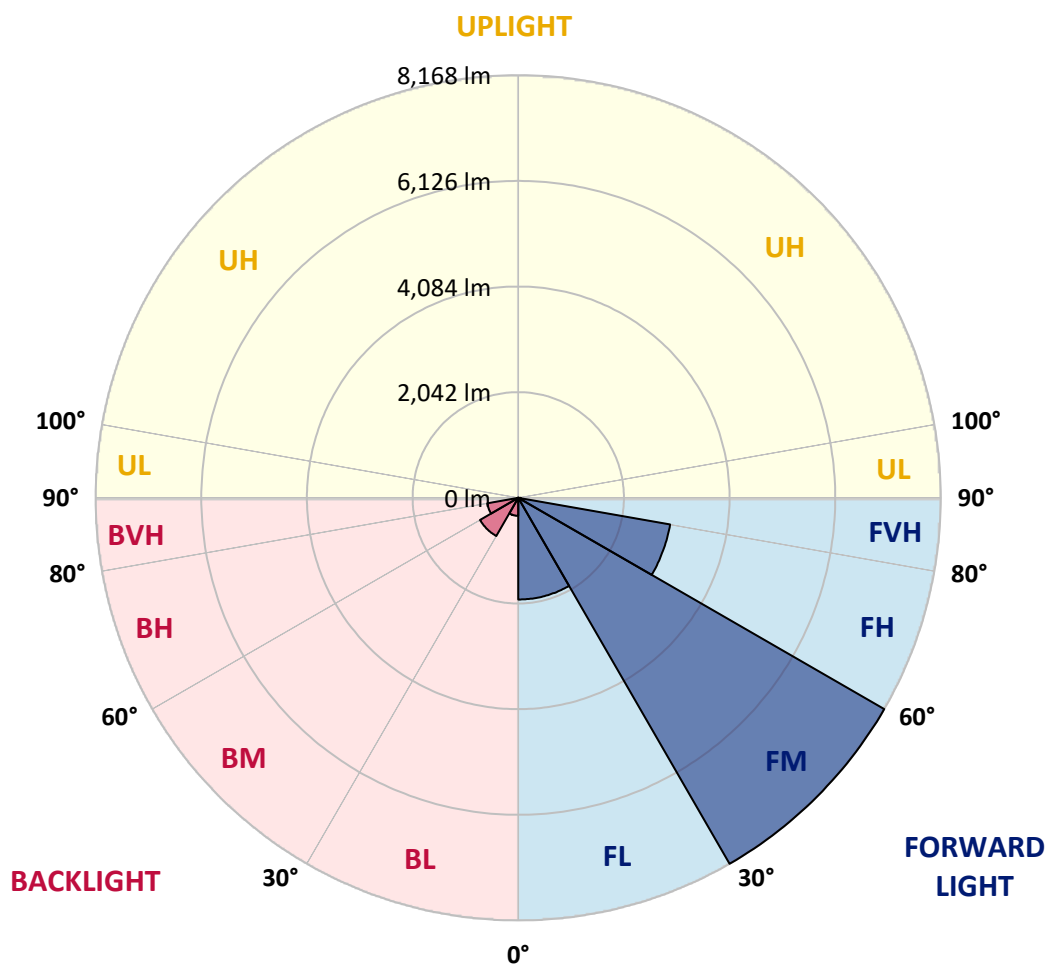
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1965.8	13.1			
FM	(30°-60°)	8168.3	54.5			
FH	(60°-80°)	2979.8	19.9			G2/5000
FVH	(80°-90°)	52.2	0.3			G1/100
BL	(0°-30°)	347.9	2.3	B1/500		
BM	(30°-60°)	853.0	5.7	B1/1000		
BH	(60°-80°)	608.3	4.1	B2/1000		G2/1000
BVH	(80°-90°)	13.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4
2.5°	2455.2	2412.1	2461.3	2455.2	2412.1	2384.4	2298.3	2270.6	2169.0	2095.2	2030.6
5°	2959.7	2916.7	2959.7	2947.4	2885.9	2818.2	2676.7	2584.4	2402.9	2242.9	2098.3
7.5°	3378.2	3378.2	3396.6	3399.7	3325.9	3221.3	3045.9	2907.4	2652.1	2405.9	2175.2
10°	3830.4	3833.5	3873.5	3845.8	3747.4	3605.8	3384.3	3208.9	2901.3	2578.2	2249.0
12.5°	4313.5	4316.5	4328.9	4316.5	4199.6	4018.1	3750.4	3519.7	3165.9	2775.1	2350.6
15°	4796.5	4799.6	4815.0	4793.4	4664.2	4451.9	4147.3	3864.3	3445.9	2996.7	2473.6
17.5°	5248.8	5254.9	5267.2	5239.5	5104.2	4851.9	4541.1	4199.6	3744.3	3233.6	2612.1
20°	5654.9	5661.0	5670.3	5633.4	5498.0	5245.7	4910.3	4553.4	4048.9	3476.6	2762.8
22.5°	6064.1	6070.2	6085.6	6036.4	5885.6	5596.4	5267.2	4898.0	4371.9	3744.3	2938.2
25°	6587.1	6593.3	6605.6	6534.8	6328.7	5990.2	5642.6	5264.2	4722.7	4045.8	3153.6
27.5°	7353.2	7347.0	7347.0	7217.8	6864.0	6424.1	6021.0	5636.4	5101.1	4368.8	3390.5
30°	8300.8	8285.4	8276.2	8100.8	7596.3	6913.2	6408.7	5984.1	5464.1	4710.4	3645.8
32.5°	9150.0	9150.0	9131.5	8946.9	8411.6	7571.6	6820.9	6322.5	5814.9	5054.9	3910.4
35°	9651.5	9673.0	9663.8	9525.3	9134.6	8279.3	7377.8	6728.6	6184.1	5414.9	4227.3
37.5°	9719.1	9762.2	9771.4	9688.4	9482.2	8857.7	7996.2	7168.6	6590.2	5802.6	4535.0
40°	9445.3	9537.6	9537.6	9525.3	9451.5	9131.5	8516.2	7679.3	7008.6	6205.6	4845.7
42.5°	9023.8	9119.2	9106.9	9153.0	9134.6	9066.9	8808.5	8156.2	7427.0	6621.0	5128.8
45°	8473.1	8571.6	8546.9	8630.0	8666.9	8740.8	8777.7	8488.5	7839.3	7073.2	5445.7
47.5°	7590.1	7756.2	7793.2	7940.8	8094.7	8325.4	8500.8	8608.5	8223.9	7559.3	5790.3
50°	6285.6	6519.4	6593.3	6904.0	7325.5	7802.4	8085.4	8460.8	8494.6	8057.8	6162.5
52.5°	4501.1	4771.9	4885.7	5396.4	6264.1	7094.8	7605.5	8134.7	8599.2	8534.6	6565.6
55°	2910.5	3141.3	3252.0	3732.0	4885.7	6190.2	7039.4	7713.2	8540.8	8971.5	7027.1
57.5°	1793.7	1926.0	1999.8	2412.1	3473.5	5030.3	6297.9	7325.5	8362.3	9349.9	7507.0
60°	1209.1	1286.0	1323.0	1516.8	2359.8	3759.7	5279.5	6919.4	8128.5	9605.3	7943.9
62.5°	803.0	827.6	864.5	984.5	1556.8	2639.8	4055.0	6193.3	7953.1	9620.7	8267.0
65°	621.5	633.8	649.2	701.5	959.9	1846.0	2852.1	5018.0	7691.6	9294.6	8368.5
67.5°	489.2	501.5	520.0	547.6	695.3	1252.2	1941.4	3676.6	7156.3	8783.8	8202.4
70°	384.6	393.8	406.1	430.7	541.5	907.6	1283.0	2442.9	6076.4	8297.7	7679.3
72.5°	304.6	313.8	326.1	350.7	440.0	664.6	879.9	1522.9	4685.7	7703.9	6673.3
75°	240.0	246.1	255.4	280.0	353.8	516.9	596.9	910.7	3184.3	6617.9	5199.5
77.5°	120.0	147.7	169.2	193.8	258.4	356.9	396.9	504.6	1344.5	3396.6	2479.8
80°	70.8	86.1	92.3	107.7	169.2	215.4	215.4	203.1	424.6	1304.5	1012.2
82.5°	40.0	55.4	58.5	61.5	101.5	123.1	98.5	73.8	86.1	436.9	295.4
85°	12.3	18.5	21.5	24.6	33.8	36.9	33.8	30.8	24.6	43.1	27.7
87.5°	0.0	0.0	0.0	0.0	3.1	6.2	6.2	6.2	9.2	9.2	9.2
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°	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4	1981.4
2.5°	1993.7	1953.7	1876.8	1806.0	1738.3	1689.1	1642.9	1599.9	1569.1	1544.5	1541.4
5°	2021.4	1941.4	1793.7	1655.2	1529.1	1424.5	1335.3	1264.5	1212.2	1175.3	1172.2
7.5°	2058.3	1935.2	1710.6	1504.5	1316.8	1166.1	1036.8	941.5	873.8	846.1	824.5
10°	2089.0	1929.1	1627.5	1353.7	1107.6	916.8	763.0	667.6	618.4	599.9	590.7
12.5°	2141.4	1935.2	1556.8	1215.3	926.1	701.5	584.6	532.3	510.7	495.3	492.3
15°	2218.3	1962.9	1489.1	1079.9	741.5	566.1	498.4	464.6	443.0	440.0	436.9
17.5°	2295.2	1987.5	1427.6	941.5	615.3	492.3	446.1	418.4	403.0	400.0	400.0
20°	2384.4	2018.3	1359.9	809.2	526.1	443.0	406.1	384.6	366.1	363.0	363.0
22.5°	2489.0	2061.4	1295.3	692.2	467.7	406.1	375.4	350.7	335.4	332.3	332.3
25°	2630.5	2126.0	1243.0	606.1	427.7	375.4	347.7	326.1	313.8	307.7	307.7
27.5°	2787.4	2215.2	1206.0	553.8	400.0	350.7	323.0	304.6	292.3	286.1	286.1
30°	2962.8	2313.6	1181.4	532.3	384.6	329.2	304.6	286.1	270.7	267.7	267.7
32.5°	3156.6	2427.5	1166.1	535.3	381.5	313.8	286.1	267.7	255.4	249.2	249.2
35°	3372.0	2553.6	1156.8	553.8	387.7	301.5	270.7	252.3	240.0	233.8	233.8
37.5°	3612.0	2701.3	1156.8	572.3	403.0	298.4	255.4	236.9	227.7	221.5	221.5
40°	3836.6	2858.2	1169.1	593.8	418.4	298.4	243.1	227.7	215.4	209.2	209.2
42.5°	4012.0	2947.4	1178.4	615.3	427.7	295.4	230.7	215.4	206.1	200.0	200.0
45°	4211.9	3042.8	1159.9	624.6	427.7	289.2	221.5	206.1	196.9	190.8	190.8
47.5°	4433.5	3159.7	1156.8	630.7	418.4	276.9	212.3	196.9	190.8	184.6	184.6
50°	4658.1	3288.9	1163.0	627.6	406.1	258.4	200.0	190.8	181.5	175.4	175.4
52.5°	4913.4	3424.3	1175.3	621.5	378.4	236.9	190.8	181.5	172.3	166.1	163.1
55°	5196.5	3572.0	1199.9	609.2	341.5	215.4	181.5	172.3	160.0	153.8	150.8
57.5°	5522.6	3753.5	1227.6	584.6	301.5	196.9	172.3	160.0	141.5	132.3	129.2
60°	5833.3	3959.7	1258.4	526.1	261.5	178.4	163.1	144.6	126.1	120.0	116.9
62.5°	6125.6	4162.7	1273.7	421.5	221.5	163.1	153.8	132.3	113.8	107.7	104.6
65°	6313.3	4384.2	1239.9	286.1	181.5	150.8	141.5	123.1	104.6	95.4	95.4
67.5°	6325.6	4488.8	1123.0	187.7	147.7	135.4	129.2	110.8	92.3	86.1	83.1
70°	6014.9	4331.9	858.4	147.7	123.1	116.9	116.9	98.5	80.0	73.8	70.8
72.5°	5301.1	3836.6	547.6	120.0	104.6	98.5	98.5	83.1	70.8	61.5	58.5
75°	4184.2	2959.7	292.3	98.5	86.1	83.1	76.9	67.7	58.5	52.3	49.2
77.5°	1922.9	1304.5	135.4	70.8	64.6	64.6	58.5	49.2	46.1	40.0	40.0
80°	759.9	443.0	67.7	46.1	43.1	43.1	43.1	33.8	33.8	27.7	24.6
82.5°	209.2	92.3	33.8	27.7	27.7	27.7	24.6	21.5	21.5	18.5	18.5
85°	21.5	15.4	15.4	15.4	15.4	12.3	12.3	9.2	6.2	6.2	6.2
87.5°	9.2	9.2	9.2	9.2	9.2	6.2	3.1	0.0	0.0	0.0	0.0
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)