

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: P841217

Luminaire Tested: **ARCH4-150-722-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841217
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-150-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15017 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

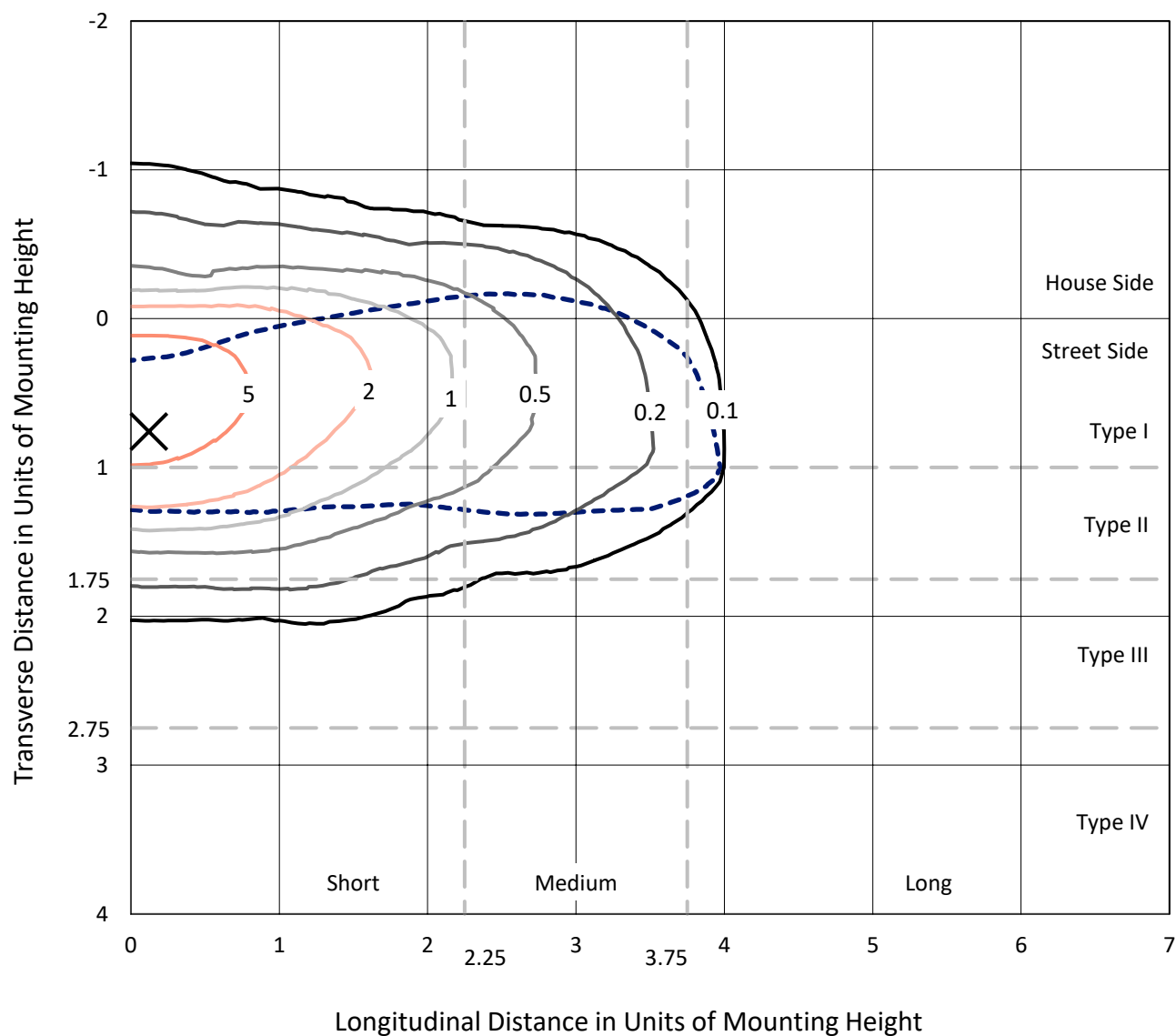
Input Watts (W): 150.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

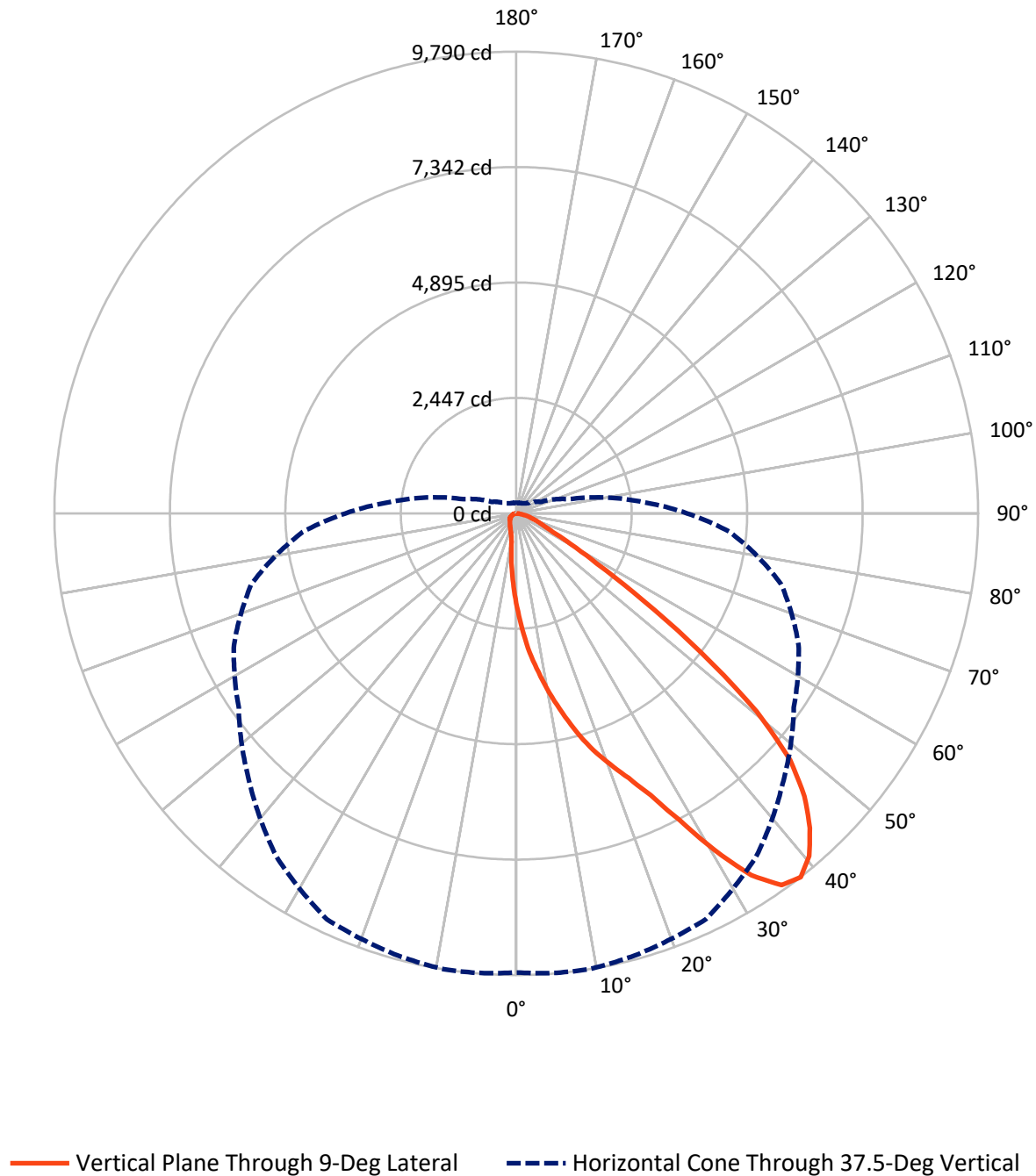
× Max cd
 --- 1/2 Max cd



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	1826.3	0.0	1826.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	13190.7	0.0	13190.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	15017.0	0.0	15017.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.5	1.3
10°-20°	693.5	4.6
20°-30°	1425.0	9.5
30°-40°	2518.8	16.8
40°-50°	3346.0	22.3
50°-60°	3173.4	21.1
60°-70°	2421.1	16.1
70°-80°	1173.7	7.8
80°-90°	66.1	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°	15017.0	100.0
0°-180°	15017.0	100.0

Coefficient of Utilization



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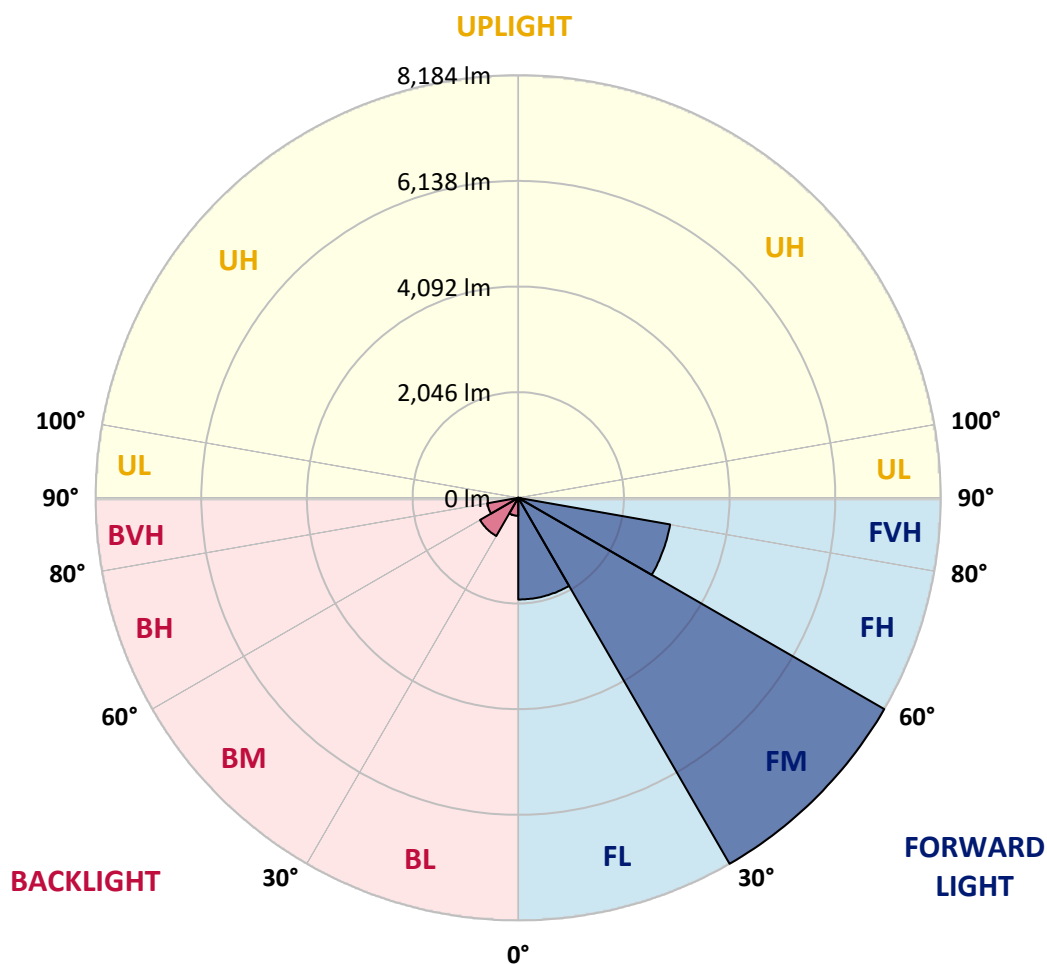
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1969.5	13.1			
FM	(30°-60°)	8183.5	54.5			
FH	(60°-80°)	2985.3	19.9			G2/5000
FVH	(80°-90°)	52.3	0.3			G1/100
BL	(0°-30°)	348.5	2.3	B1/500		
BM	(30°-60°)	854.6	5.7	B1/1000		
BH	(60°-80°)	609.4	4.1	B2/1000		G2/1000
BVH	(80°-90°)	13.8	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°	1985.1	1985.1	1985.1	1985.1	1985.1	1985.1	1985.1	1985.1	1985.1	1985.1	1985.1
2.5°	2459.8	2416.6	2465.9	2459.8	2416.6	2388.9	2302.6	2274.8	2173.1	2099.1	2034.4
5°	2965.3	2922.1	2965.3	2952.9	2891.3	2823.5	2681.7	2589.2	2407.4	2247.1	2102.2
7.5°	3384.5	3384.5	3403.0	3406.1	3332.1	3227.3	3051.6	2912.9	2657.0	2410.4	2179.3
10°	3837.6	3840.7	3880.7	3853.0	3754.4	3612.6	3390.6	3214.9	2906.7	2583.1	2253.2
12.5°	4321.5	4324.6	4336.9	4324.6	4207.5	4025.6	3757.4	3526.3	3171.8	2780.3	2355.0
15°	4805.5	4808.5	4824.0	4802.4	4672.9	4460.2	4155.1	3871.5	3452.3	3002.3	2478.2
17.5°	5258.6	5264.7	5277.1	5249.3	5113.7	4860.9	4549.6	4207.5	3751.3	3239.6	2617.0
20°	5665.5	5671.6	5680.9	5643.9	5508.2	5255.5	4919.5	4562.0	4056.4	3483.1	2768.0
22.5°	6075.4	6081.6	6097.0	6047.7	5896.6	5606.9	5277.1	4907.2	4380.1	3751.3	2943.7
25°	6599.4	6605.6	6617.9	6547.0	6340.5	6001.4	5653.1	5274.0	4731.5	4053.4	3159.5
27.5°	7366.9	7360.8	7360.8	7231.3	6876.8	6436.1	6032.3	5647.0	5110.6	4377.0	3396.8
30°	8316.3	8300.9	8291.7	8116.0	7610.4	6926.2	6420.6	5995.3	5474.3	4719.2	3652.6
32.5°	9167.1	9167.1	9148.6	8963.6	8427.3	7585.8	6833.7	6334.3	5825.7	5064.4	3917.7
35°	9669.5	9691.1	9681.8	9543.1	9151.6	8294.7	7391.6	6741.2	6195.6	5425.0	4235.2
37.5°	9737.3	9780.5	9789.7	9706.5	9500.0	8874.2	8011.2	7182.0	6602.5	5813.4	4543.5
40°	9463.0	9555.4	9555.4	9543.1	9469.1	9148.6	8532.1	7693.7	7021.7	6217.2	4854.8
42.5°	9040.7	9136.2	9123.9	9170.1	9151.6	9083.8	8824.9	8171.4	7440.9	6633.3	5138.4
45°	8488.9	8587.6	8562.9	8646.1	8683.1	8757.1	8794.1	8504.3	7854.0	7086.4	5455.8
47.5°	7604.3	7770.7	7807.7	7955.7	8109.8	8341.0	8516.7	8624.6	8239.3	7573.5	5801.1
50°	6297.3	6531.6	6605.6	6916.9	7339.2	7817.0	8100.5	8476.6	8510.5	8072.8	6174.0
52.5°	4509.6	4780.8	4894.9	5406.5	6275.8	7108.0	7619.7	8149.9	8615.3	8550.6	6577.8
55°	2916.0	3147.1	3258.1	3739.0	4894.9	6201.8	7052.5	7727.6	8556.7	8988.3	7040.2
57.5°	1797.0	1929.6	2003.6	2416.6	3480.0	5039.7	6309.7	7339.2	8378.0	9367.4	7521.1
60°	1211.4	1288.4	1325.4	1519.6	2364.2	3766.7	5289.4	6932.3	8143.7	9623.3	7958.8
62.5°	804.5	829.2	866.2	986.4	1559.7	2644.7	4062.6	6204.9	7968.0	9638.7	8282.4
65°	622.6	635.0	650.4	702.8	961.7	1849.4	2857.4	5027.4	7706.0	9311.9	8384.1
67.5°	490.1	502.4	520.9	548.7	696.6	1254.5	1945.0	3683.5	7169.7	8800.3	8217.7
70°	385.3	394.5	406.9	431.5	542.5	909.3	1285.4	2447.4	6087.7	8313.2	7693.7
72.5°	305.2	314.4	326.7	351.4	440.8	665.8	881.6	1525.8	4694.5	7718.3	6685.7
75°	240.4	246.6	255.8	280.5	354.5	517.8	598.0	912.4	3190.3	6630.2	5209.3
77.5°	120.2	148.0	169.5	194.2	258.9	357.6	397.6	505.5	1347.0	3403.0	2484.4
80°	70.9	86.3	92.5	107.9	169.5	215.8	215.8	203.4	425.4	1306.9	1014.1
82.5°	40.1	55.5	58.6	61.6	101.7	123.3	98.6	74.0	86.3	437.7	295.9
85°	12.3	18.5	21.6	24.7	33.9	37.0	33.9	30.8	24.7	43.2	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°	1985.1	1985.1	1985.1	1985.1	1985.1	1985.1	1985.1	1985.1	1985.1	1985.1	1985.1
2.5°	1997.4	1957.3	1880.3	1809.4	1741.6	1692.2	1646.0	1602.8	1572.0	1547.4	1544.3
5°	2025.1	1945.0	1797.0	1658.3	1532.0	1427.2	1337.8	1266.9	1214.5	1177.5	1174.4
7.5°	2062.1	1938.8	1713.8	1507.3	1319.3	1168.2	1038.8	943.2	875.4	847.7	826.1
10°	2092.9	1932.7	1630.6	1356.3	1109.7	918.6	764.4	668.9	619.6	601.1	591.8
12.5°	2145.4	1938.8	1559.7	1217.5	927.8	702.8	585.7	533.3	511.7	496.3	493.2
15°	2222.4	1966.6	1491.9	1081.9	742.9	567.2	499.3	465.4	443.9	440.8	437.7
17.5°	2299.5	1991.2	1430.2	943.2	616.5	493.2	446.9	419.2	403.8	400.7	400.7
20°	2388.9	2022.1	1362.4	810.7	527.1	443.9	406.9	385.3	366.8	363.7	363.7
22.5°	2493.7	2065.2	1297.7	693.5	468.5	406.9	376.1	351.4	336.0	332.9	332.9
25°	2635.5	2129.9	1245.3	607.2	428.5	376.1	348.3	326.7	314.4	308.2	308.2
27.5°	2792.7	2219.3	1208.3	554.8	400.7	351.4	323.7	305.2	292.8	286.7	286.7
30°	2968.4	2318.0	1183.6	533.3	385.3	329.8	305.2	286.7	271.3	268.2	268.2
32.5°	3162.5	2432.0	1168.2	536.3	382.2	314.4	286.7	268.2	255.8	249.7	249.7
35°	3378.3	2558.4	1159.0	554.8	388.4	302.1	271.3	252.8	240.4	234.3	234.3
37.5°	3618.7	2706.3	1159.0	573.3	403.8	299.0	255.8	237.3	228.1	221.9	221.9
40°	3843.8	2863.5	1171.3	594.9	419.2	299.0	243.5	228.1	215.8	209.6	209.6
42.5°	4019.4	2952.9	1180.6	616.5	428.5	295.9	231.2	215.8	206.5	200.4	200.4
45°	4219.8	3048.5	1162.1	625.7	428.5	289.7	221.9	206.5	197.3	191.1	191.1
47.5°	4441.7	3165.6	1159.0	631.9	419.2	277.4	212.7	197.3	191.1	184.9	184.9
50°	4666.8	3295.1	1165.1	628.8	406.9	258.9	200.4	191.1	181.9	175.7	175.7
52.5°	4922.6	3430.7	1177.5	622.6	379.1	237.3	191.1	181.9	172.6	166.4	163.4
55°	5206.2	3578.7	1202.1	610.3	342.1	215.8	181.9	172.6	160.3	154.1	151.0
57.5°	5532.9	3760.5	1229.9	585.7	302.1	197.3	172.6	160.3	141.8	132.5	129.5
60°	5844.2	3967.0	1260.7	527.1	262.0	178.8	163.4	144.9	126.4	120.2	117.1
62.5°	6137.1	4170.5	1276.1	422.3	221.9	163.4	154.1	132.5	114.0	107.9	104.8
65°	6325.1	4392.4	1242.2	286.7	181.9	151.0	141.8	123.3	104.8	95.6	95.6
67.5°	6337.4	4497.2	1125.1	188.0	148.0	135.6	129.5	111.0	92.5	86.3	83.2
70°	6026.1	4340.0	860.0	148.0	123.3	117.1	117.1	98.6	80.1	74.0	70.9
72.5°	5311.0	3843.8	548.7	120.2	104.8	98.6	98.6	83.2	70.9	61.6	58.6
75°	4192.1	2965.3	292.8	98.6	86.3	83.2	77.1	67.8	58.6	52.4	49.3
77.5°	1926.5	1306.9	135.6	70.9	64.7	64.7	58.6	49.3	46.2	40.1	40.1
80°	761.4	443.9	67.8	46.2	43.2	43.2	43.2	33.9	33.9	27.7	24.7
82.5°	209.6	92.5	33.9	27.7	27.7	27.7	24.7	21.6	21.6	18.5	18.5
85°	21.6	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)