

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: P841147

Luminaire Tested: **ARCH4-140-722-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-140-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14287 lumens
Efficiency: N/A
Efficacy: 101.1 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

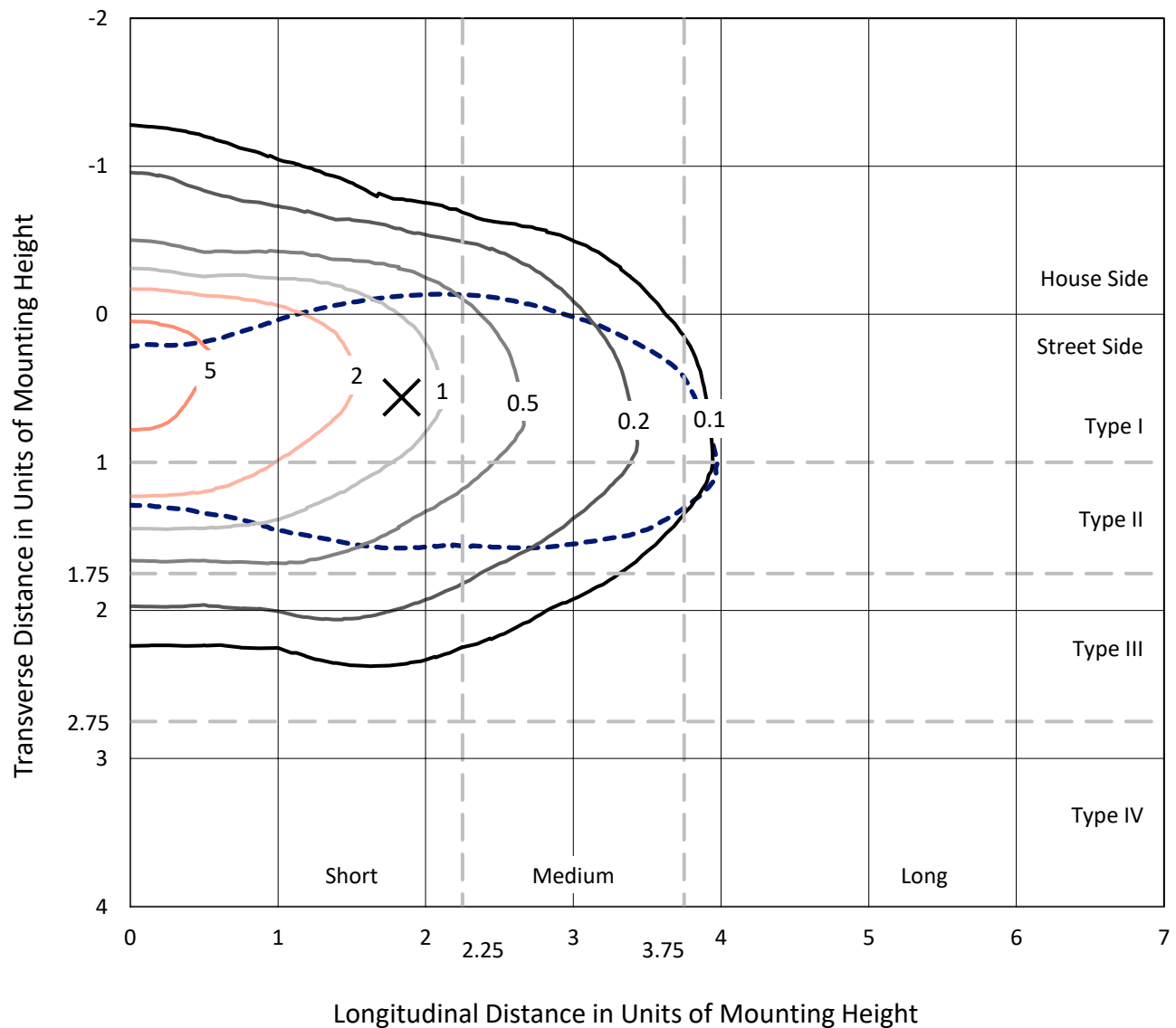
Input Watts (W): 141.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

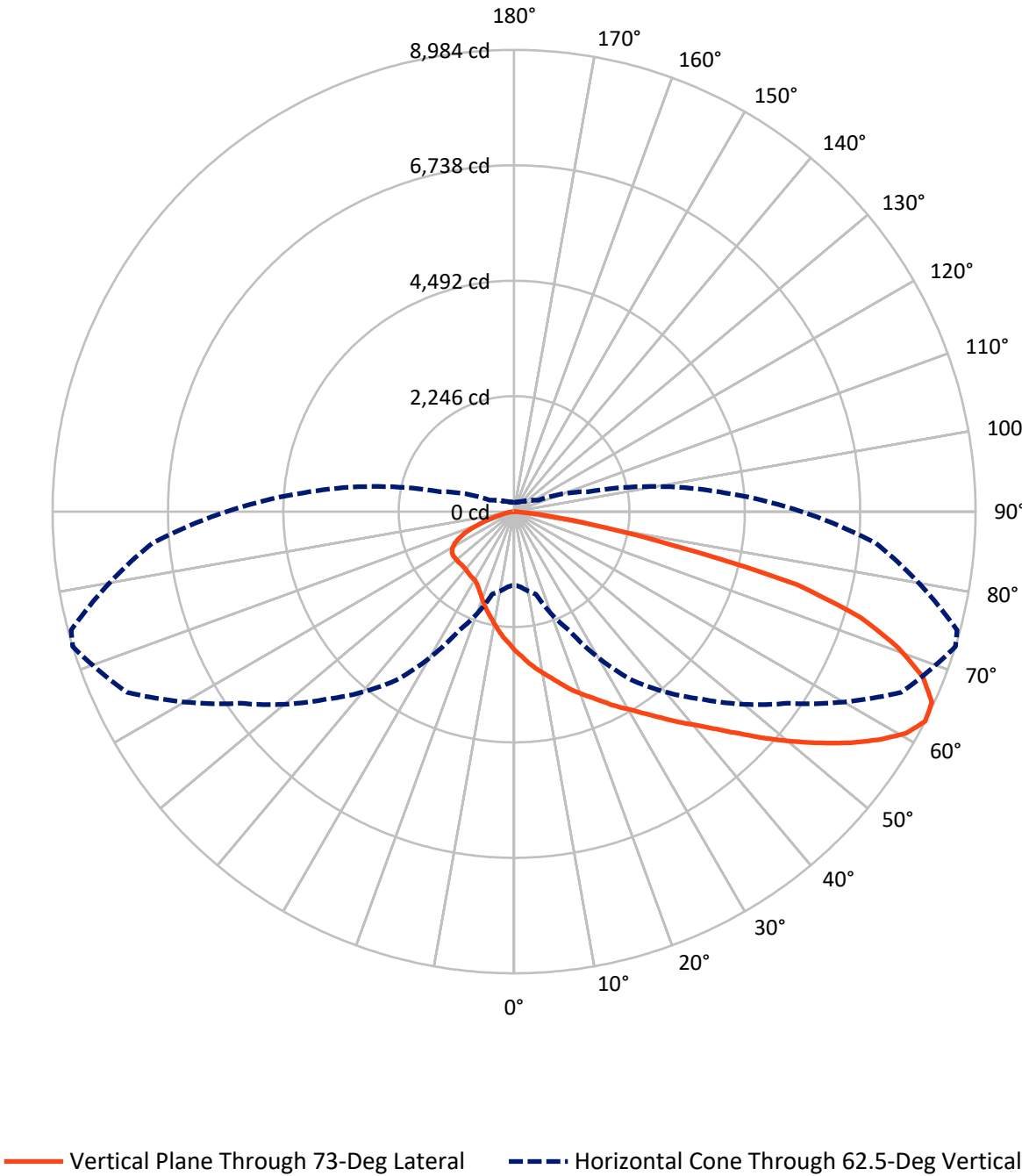
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	2214.7	0.0	2214.7
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	12072.3	0.0	12072.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	14287.0	0.0	14287.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.3	1.8
10°-20°	788.6	5.5
20°-30°	1312.7	9.2
30°-40°	1980.6	13.9
40°-50°	2768.4	19.4
50°-60°	3057.9	21.4
60°-70°	2663.8	18.6
70°-80°	1345.6	9.4
80°-90°	108.0	0.8
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°	14287.0	100.0
0°-180°	14287.0	100.0

Coefficient of Utilization



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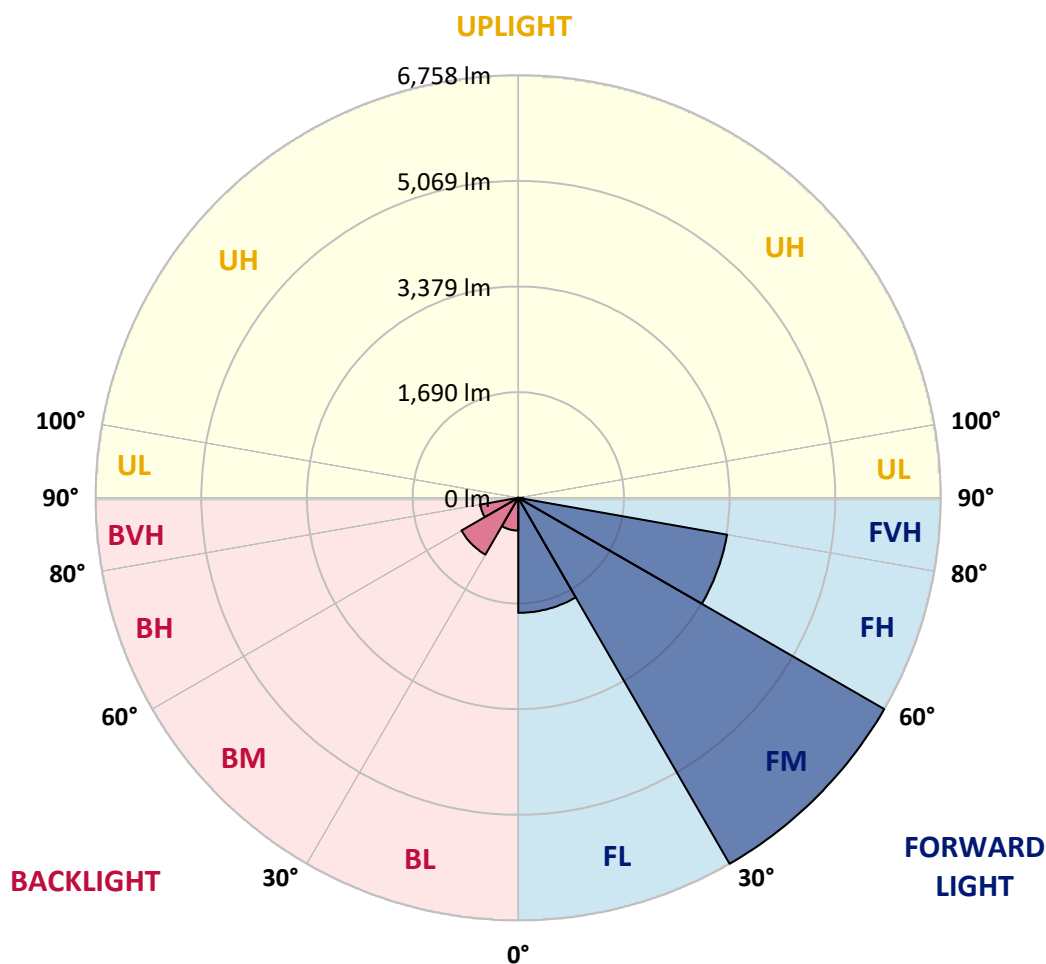
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1839.2	12.9			
FM	(30°-60°)	6758.3	47.3			
FH	(60°-80°)	3391.3	23.7			G2/5000
FVH	(80°-90°)	83.6	0.6			G1/100
BL	(0°-30°)	523.5	3.7	B2/1000		
BM	(30°-60°)	1048.7	7.3	B2/2500		
BH	(60°-80°)	618.2	4.3	B2/1000		G2/1000
BVH	(80°-90°)	24.4	0.2			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°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2705.3	2705.3	2705.3	2705.3	2705.3	2705.3	2705.3	2705.3	2705.3	2705.3	2705.3
2.5°	3078.8	3113.1	3094.4	3106.9	3044.6	3004.1	2957.4	2867.2	2817.3	2811.1	2752.0
5°	3530.2	3567.6	3536.5	3527.1	3418.2	3324.8	3218.9	3060.2	2954.3	2935.6	2804.9
7.5°	3981.6	4015.9	3978.5	3950.5	3804.2	3639.2	3483.5	3250.1	3085.1	3053.9	2848.5
10°	4299.2	4330.3	4302.3	4274.3	4121.7	3953.6	3732.6	3427.5	3203.4	3153.6	2876.5
12.5°	4538.9	4557.6	4545.1	4520.2	4377.0	4196.4	3984.8	3626.7	3337.2	3275.0	2920.1
15°	4735.0	4766.1	4750.6	4731.9	4594.9	4414.4	4212.0	3835.3	3492.9	3415.1	2985.5
17.5°	4865.8	4887.5	4890.7	4890.7	4769.3	4591.8	4395.7	4025.2	3648.5	3548.9	3047.7
20°	4924.9	4949.8	4965.4	4990.3	4890.7	4738.1	4538.9	4187.1	3794.9	3682.8	3106.9
22.5°	4952.9	4974.7	5015.2	5071.2	4990.3	4862.6	4679.0	4336.5	3941.2	3822.9	3175.4
25°	4974.7	5002.7	5061.9	5167.7	5111.7	5002.7	4844.0	4507.8	4115.5	3994.1	3275.0
27.5°	5033.9	5068.1	5124.1	5251.8	5183.3	5130.4	5018.3	4691.4	4299.2	4174.7	3396.4
30°	5239.3	5267.3	5264.2	5345.2	5261.1	5245.6	5167.7	4868.9	4476.6	4352.1	3539.6
32.5°	5612.9	5640.9	5572.4	5541.3	5357.6	5360.7	5329.6	5058.8	4688.3	4560.7	3704.6
35°	6014.5	6045.6	5955.3	5902.4	5594.2	5503.9	5519.5	5295.4	4924.9	4797.3	3910.0
37.5°	6372.5	6409.8	6332.0	6254.2	5942.9	5734.3	5731.2	5560.0	5195.7	5065.0	4137.3
40°	6568.6	6612.2	6658.9	6615.3	6288.4	6058.1	5958.5	5830.8	5463.5	5329.6	4383.2
42.5°	6662.0	6783.4	6867.5	6839.5	6571.7	6338.2	6220.0	6114.1	5790.3	5659.6	4675.9
45°	6400.5	6403.6	6581.1	6733.6	6683.8	6528.1	6506.4	6431.6	6163.9	6039.4	5005.8
47.5°	6073.6	6048.7	6173.3	6444.1	6584.2	6624.7	6752.3	6783.4	6590.4	6465.9	5342.1
50°	5289.1	5304.7	5709.4	6098.5	6372.5	6634.0	6926.6	7144.5	7029.4	6911.1	5697.0
52.5°	4302.3	4339.6	4803.5	5659.6	6092.3	6540.6	7029.4	7505.7	7477.6	7365.6	6051.8
55°	3449.3	3508.5	4000.3	4928.0	5734.3	6332.0	7072.9	7835.6	7941.5	7838.8	6400.5
57.5°	2636.8	2699.0	3113.1	4065.7	5276.7	5992.7	7041.8	8125.2	8374.2	8308.8	6721.2
60°	1986.2	2048.4	2313.0	3296.8	4703.9	5612.9	6886.2	8315.1	8763.3	8694.9	6954.6
62.5°	1422.7	1472.5	1668.6	2565.2	4006.5	5161.5	6503.2	8318.2	8984.4	8928.3	7066.7
65°	1024.2	1024.2	1183.0	1830.5	3352.8	4619.8	5924.2	7935.3	8937.7	8922.1	6988.9
67.5°	737.8	744.0	871.7	1279.5	2674.1	3963.0	5174.0	7253.5	8576.6	8654.4	6708.7
70°	523.0	538.6	597.7	893.5	2020.4	3128.7	4370.8	6360.0	7925.9	8062.9	6167.0
72.5°	404.7	414.0	454.5	622.6	1475.6	2325.5	3483.5	5363.9	7057.4	7213.0	5429.2
75°	311.3	320.6	351.8	457.6	1058.5	1631.3	2474.9	4162.2	5690.7	5967.8	4361.4
77.5°	227.3	239.7	261.5	333.1	616.4	1036.7	1500.5	2341.0	3141.1	3271.9	2285.0
80°	105.8	121.4	152.5	214.8	333.1	488.8	532.3	902.8	1509.8	1578.3	1239.0
82.5°	59.1	74.7	87.2	130.7	168.1	174.3	180.6	227.3	569.7	628.8	519.9
85°	28.0	37.4	40.5	56.0	56.0	49.8	59.1	43.6	93.4	112.1	109.0
87.5°	0.0	3.1	6.2	15.6	12.5	9.3	9.3	9.3	9.3	12.5	9.3
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°	2705.3	2705.3	2705.3	2705.3	2705.3	2705.3	2705.3	2705.3	2705.3	2705.3	2705.3
2.5°	2724.0	2683.5	2590.1	2509.1	2456.2	2409.5	2347.3	2319.3	2269.4	2278.8	2250.8
5°	2739.5	2664.8	2499.8	2347.3	2235.2	2135.6	2026.6	1964.4	1895.9	1889.6	1867.9
7.5°	2748.9	2633.7	2397.1	2182.3	2011.1	1858.5	1712.2	1631.3	1547.2	1528.5	1509.8
10°	2739.5	2587.0	2291.2	2011.1	1783.8	1593.9	1428.9	1326.2	1239.0	1217.2	1198.5
12.5°	2748.9	2562.1	2191.6	1852.3	1581.4	1366.6	1179.9	1074.0	993.1	971.3	958.8
15°	2770.6	2546.5	2107.6	1709.1	1400.9	1161.2	977.5	887.2	821.9	800.1	793.8
17.5°	2789.3	2530.9	2017.3	1569.0	1220.3	980.6	821.9	747.1	691.1	669.3	663.1
20°	2814.2	2509.1	1927.0	1435.1	1061.6	837.4	697.3	632.0	588.4	572.8	569.7
22.5°	2836.0	2493.6	1842.9	1301.3	915.2	722.2	603.9	551.0	519.9	504.3	504.3
25°	2892.1	2499.8	1771.3	1176.7	806.3	632.0	532.3	491.9	467.0	457.6	457.6
27.5°	2957.4	2524.7	1715.3	1070.9	712.9	563.5	482.5	448.3	435.8	423.4	426.5
30°	3050.8	2574.5	1678.0	983.7	644.4	510.5	442.1	417.2	404.7	401.6	401.6
32.5°	3169.1	2655.5	1674.8	927.7	594.6	470.1	414.0	392.2	386.0	382.9	382.9
35°	3309.2	2727.1	1656.2	902.8	563.5	442.1	392.2	376.7	373.6	373.6	373.6
37.5°	3477.3	2845.4	1643.7	868.6	547.9	426.5	376.7	364.2	364.2	364.2	364.2
40°	3651.7	2941.9	1625.0	837.4	541.7	417.2	367.3	351.8	351.8	351.8	351.8
42.5°	3860.2	3082.0	1618.8	821.9	532.3	410.9	354.9	336.2	339.3	339.3	342.4
45°	4112.4	3240.7	1615.7	806.3	529.2	404.7	342.4	320.6	323.8	320.6	320.6
47.5°	4367.7	3424.4	1625.0	797.0	526.1	398.5	333.1	305.1	305.1	302.0	302.0
50°	4635.4	3592.5	1631.3	787.6	519.9	386.0	317.5	292.6	286.4	280.2	283.3
52.5°	4887.5	3748.2	1634.4	772.0	501.2	367.3	305.1	277.1	267.7	258.4	261.5
55°	5139.7	3897.6	1640.6	753.4	476.3	348.7	289.5	261.5	249.0	236.6	236.6
57.5°	5367.0	4028.3	1625.0	706.7	448.3	330.0	274.0	242.8	224.1	211.7	211.7
60°	5522.6	4121.7	1578.3	638.2	410.9	308.2	258.4	224.1	202.4	193.0	193.0
62.5°	5597.3	4137.3	1494.3	526.1	364.2	286.4	239.7	205.5	186.8	180.6	180.6
65°	5525.7	4068.8	1363.5	395.4	314.4	261.5	221.0	189.9	171.2	155.7	155.7
67.5°	5276.7	3875.8	1183.0	298.9	267.7	236.6	202.4	174.3	152.5	140.1	140.1
70°	4775.5	3474.2	915.2	239.7	227.3	205.5	183.7	155.7	137.0	121.4	121.4
72.5°	4118.6	2945.0	644.4	193.0	193.0	174.3	155.7	137.0	118.3	105.8	105.8
75°	3159.8	2179.2	432.7	155.7	158.8	146.3	127.6	112.1	99.6	90.3	90.3
77.5°	1724.7	1077.1	264.6	115.2	118.3	112.1	99.6	90.3	84.1	74.7	74.7
80°	837.4	473.2	152.5	80.9	84.1	80.9	74.7	65.4	65.4	59.1	59.1
82.5°	351.8	177.4	80.9	56.0	56.0	49.8	46.7	46.7	46.7	43.6	43.6
85°	87.2	34.2	34.2	31.1	31.1	31.1	28.0	28.0	28.0	21.8	24.9
87.5°	12.5	12.5	12.5	12.5	12.5	12.5	9.3	3.1	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)