

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: P836109

Luminaire Tested: **ARCH3-140-730-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836109
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-140-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20577 lumens
Efficiency: N/A
Efficacy: 144.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

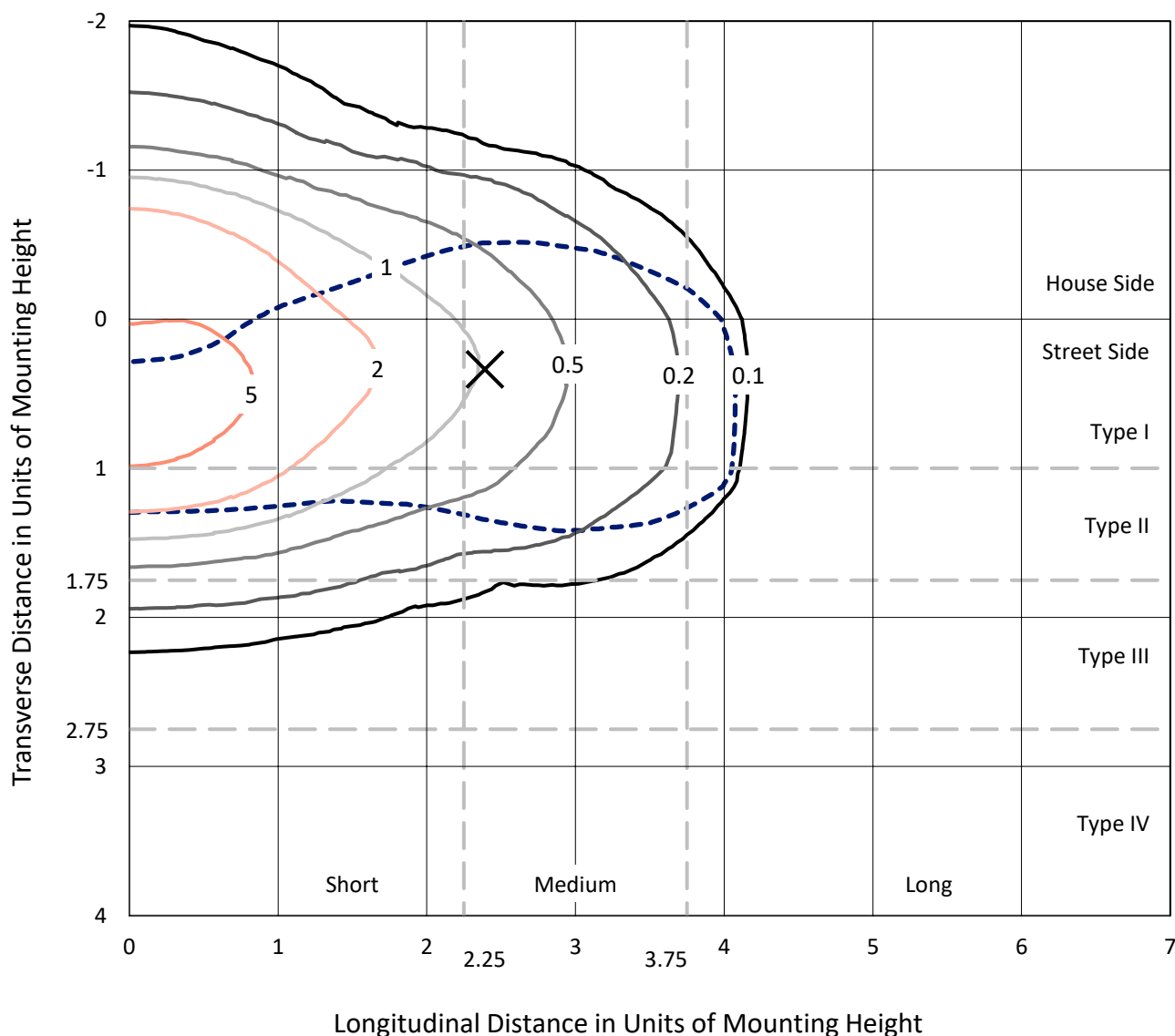
Input Watts (W): 142.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

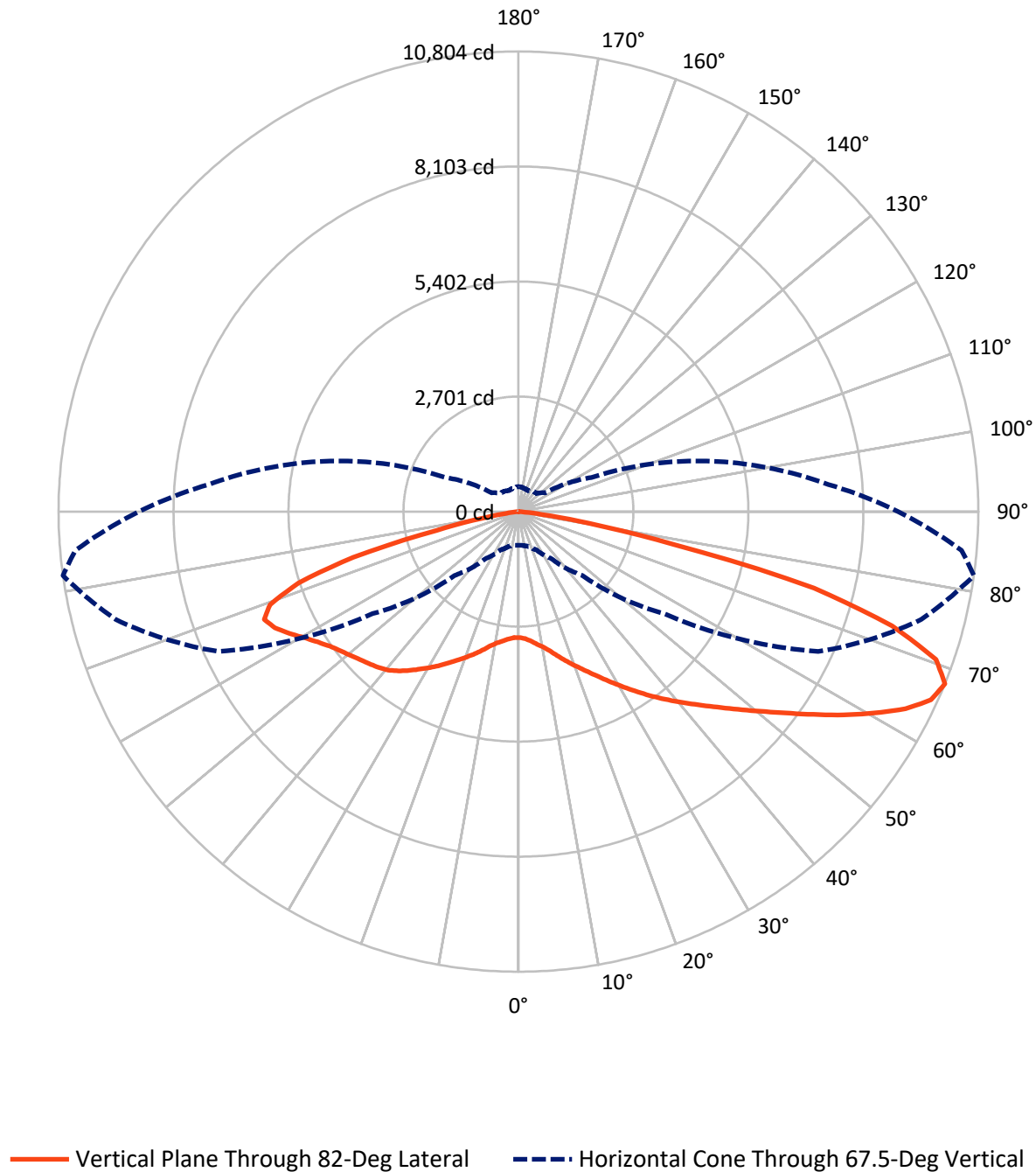
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6266.5	0.0	6266.5
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	14310.5	0.0	14310.5
	% Fixture	69.5	0.0	69.5
Total	Lumens	20577.0	0.0	20577.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.7	1.5
10°-20°	1101.1	5.4
20°-30°	2213.0	10.8
30°-40°	3476.2	16.9
40°-50°	4234.8	20.6
50°-60°	4001.3	19.4
60°-70°	3304.2	16.1
70°-80°	1799.3	8.7
80°-90°	141.5	0.7
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°	20577.0	100.0
0°-180°	20577.0	100.0

Coefficient of Utilization



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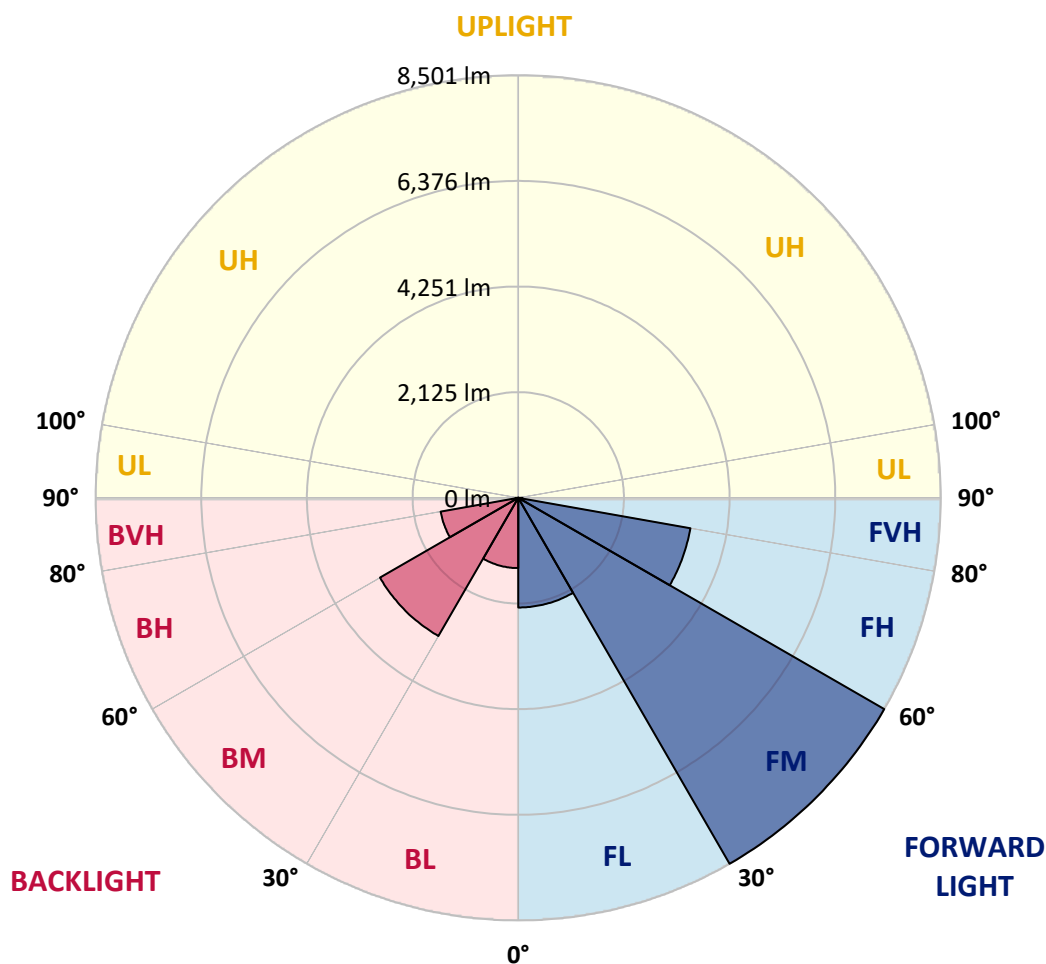
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2206.6	10.7			
FM	(30°-60°)	8501.2	41.3			
FH	(60°-80°)	3517.4	17.1			G2/5000
FVH	(80°-90°)	85.3	0.4			G1/100
BL	(0°-30°)	1413.2	6.9	B3/2500		
BM	(30°-60°)	3211.1	15.6	B3/5000		
BH	(60°-80°)	1586.1	7.7	B3/2500		G3/2500
BVH	(80°-90°)	56.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2957.9	2957.9	2957.9	2957.9	2957.9	2957.9	2957.9	2957.9	2957.9	2957.9	2957.9
2.5°	3092.4	3092.4	3116.3	3116.3	3095.4	3062.5	3053.5	3017.7	2984.8	2984.8	2987.8
5°	3388.2	3385.2	3403.1	3379.2	3328.4	3262.7	3217.9	3140.2	3074.5	3053.5	3050.6
7.5°	3749.7	3746.7	3755.7	3716.8	3621.2	3513.7	3424.0	3298.5	3191.0	3146.2	3134.2
10°	4153.1	4150.1	4141.1	4075.4	3946.9	3779.6	3645.1	3471.8	3310.5	3238.8	3223.8
12.5°	4616.2	4610.2	4589.3	4493.7	4317.4	4102.3	3908.1	3684.0	3468.8	3370.3	3337.4
15°	5133.1	5124.1	5085.3	4968.7	4732.7	4460.8	4209.8	3923.0	3660.1	3531.6	3486.8
17.5°	5676.8	5676.8	5617.1	5443.8	5180.9	4843.2	4532.5	4168.0	3860.3	3701.9	3648.1
20°	6229.6	6226.6	6151.9	5942.8	5632.0	5243.6	4849.2	4448.9	4066.4	3875.2	3809.5
22.5°	6812.2	6806.2	6713.6	6474.6	6104.1	5664.9	5204.8	4726.7	4293.5	4063.4	3979.8
25°	7481.5	7472.5	7359.0	7066.2	6627.0	6131.0	5605.1	5052.4	4553.4	4272.6	4174.0
27.5°	8192.6	8180.6	8046.2	7705.6	7224.5	6627.0	6047.3	5428.9	4840.3	4505.6	4395.1
30°	8826.0	8817.0	8670.6	8321.1	7768.3	7120.0	6468.6	5805.3	5142.0	4753.6	4616.2
32.5°	9304.0	9304.0	9172.6	8829.0	8255.3	7592.0	6892.9	6160.9	5455.7	5019.5	4858.2
35°	9593.9	9602.8	9489.3	9214.4	8673.6	8037.2	7332.1	6579.2	5790.4	5303.4	5130.1
37.5°	9635.7	9665.6	9599.8	9414.6	8963.4	8407.7	7762.3	6982.5	6137.0	5590.2	5396.0
40°	9441.5	9462.4	9465.4	9393.7	9082.9	8673.6	8141.8	7409.8	6504.5	5892.0	5667.9
42.5°	9053.1	9068.0	9094.9	9115.8	8996.3	8790.1	8431.6	7807.2	6895.9	6199.7	5936.8
45°	8551.1	8548.1	8592.9	8682.6	8676.6	8724.4	8592.9	8168.7	7302.2	6549.3	6235.6
47.5°	7801.2	7786.2	7944.6	8147.8	8249.3	8473.4	8595.9	8452.5	7744.4	6934.7	6576.2
50°	6627.0	6612.0	6958.6	7436.7	7735.4	8076.1	8431.6	8622.8	8207.5	7367.9	6946.7
52.5°	5198.8	5183.9	5623.1	6459.6	7111.0	7607.0	8100.0	8661.7	8646.7	7852.0	7365.0
55°	3866.2	3854.3	4281.5	5186.8	6241.5	7063.2	7693.6	8560.1	9059.0	8407.7	7872.9
57.5°	2724.9	2718.9	3089.4	3839.3	5124.1	6399.9	7302.2	8362.9	9438.5	9011.2	8446.5
60°	1912.2	1903.2	2172.1	2751.8	3875.2	5399.0	6913.8	8100.0	9722.3	9605.8	9056.1
62.5°	1287.7	1281.8	1473.0	1957.0	2751.8	4156.0	6325.2	7923.7	9883.7	10203.4	9671.5
65°	977.0	974.0	1060.7	1326.6	1948.1	2984.8	5390.0	7902.8	9904.6	10651.5	10194.4
67.5°	788.8	791.8	839.6	992.0	1347.5	2121.3	4179.9	7771.3	9794.0	10803.9	10448.4
70°	645.4	645.4	666.3	767.9	994.9	1431.2	2919.1	7173.7	9486.3	10406.5	10146.6
72.5°	493.0	496.0	561.7	621.5	749.9	1003.9	1870.4	5936.8	8760.3	9175.6	8978.4
75°	391.4	388.4	427.3	510.9	582.6	717.1	1147.3	4257.6	7454.6	7170.7	7045.3
77.5°	280.9	277.9	307.7	379.5	442.2	507.9	684.2	2148.2	4054.5	3725.8	3633.2
80°	191.2	185.2	212.1	262.9	292.8	298.8	334.6	824.6	1768.8	1667.2	1646.3
82.5°	98.6	98.6	113.5	149.4	152.4	155.4	149.4	265.9	585.6	546.8	522.9
85°	38.8	38.8	41.8	50.8	50.8	53.8	53.8	68.7	62.7	59.8	56.8
87.5°	3.0	3.0	6.0	6.0	9.0	9.0	9.0	12.0	14.9	14.9	14.9
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°	2957.9	2957.9	2957.9	2957.9	2957.9	2957.9	2957.9	2957.9	2957.9	2957.9	2957.9
2.5°	2981.8	2969.9	2931.0	2922.1	2916.1	2907.1	2910.1	2889.2	2880.3	2883.2	2871.3
5°	3035.6	3014.7	2966.9	2946.0	2940.0	2931.0	2940.0	2925.1	2910.1	2916.1	2910.1
7.5°	3110.3	3080.4	3020.7	2999.8	2996.8	2987.8	2999.8	2987.8	2975.9	2981.8	2969.9
10°	3188.0	3149.2	3083.4	3062.5	3062.5	3059.5	3071.5	3053.5	3041.6	3044.6	3038.6
12.5°	3301.5	3250.7	3179.0	3161.1	3152.1	3161.1	3164.1	3140.2	3119.3	3122.3	3113.3
15°	3439.0	3382.2	3304.5	3277.6	3271.7	3268.7	3256.7	3226.8	3199.9	3197.0	3188.0
17.5°	3588.4	3516.7	3424.0	3397.1	3370.3	3361.3	3331.4	3292.6	3250.7	3250.7	3238.8
20°	3731.8	3651.1	3540.6	3501.7	3462.9	3427.0	3376.2	3313.5	3259.7	3250.7	3238.8
22.5°	3887.1	3791.5	3663.1	3606.3	3537.6	3465.9	3379.2	3295.6	3226.8	3211.9	3202.9
25°	4060.4	3940.9	3788.5	3704.9	3594.3	3483.8	3355.3	3247.8	3167.1	3143.2	3137.2
27.5°	4251.7	4108.2	3923.0	3800.5	3639.2	3465.9	3301.5	3173.1	3074.5	3044.6	3035.6
30°	4445.9	4275.6	4045.5	3866.2	3639.2	3409.1	3202.9	3053.5	2940.0	2898.2	2892.2
32.5°	4640.1	4448.9	4156.0	3902.1	3603.3	3313.5	3074.5	2898.2	2769.7	2718.9	2730.9
35°	4873.1	4640.1	4257.6	3917.0	3543.5	3197.0	2928.1	2721.9	2590.4	2545.6	2554.6
37.5°	5115.1	4831.3	4338.3	3905.1	3459.9	3065.5	2763.7	2563.5	2399.2	2321.5	2330.5
40°	5324.3	5004.6	4395.1	3863.2	3352.3	2916.1	2602.4	2339.5	2112.4	2037.7	2028.7
42.5°	5521.5	5133.1	4424.9	3800.5	3229.8	2742.8	2372.3	2034.7	1807.6	1715.0	1718.0
45°	5727.6	5258.5	4413.0	3716.8	3077.4	2539.6	2076.5	1735.9	1535.7	1452.1	1455.1
47.5°	5963.7	5393.0	4401.0	3627.2	2892.2	2276.7	1792.7	1473.0	1299.7	1239.9	1234.0
50°	6214.6	5542.4	4386.1	3516.7	2686.0	1983.9	1511.8	1228.0	1081.6	1042.7	1033.8
52.5°	6498.5	5703.7	4377.1	3385.2	2438.1	1673.2	1260.9	1012.9	914.3	887.4	884.4
55°	6839.1	5892.0	4389.1	3226.8	2139.3	1380.4	1048.7	872.4	806.7	791.8	788.8
57.5°	7254.4	6134.0	4424.9	3041.6	1825.6	1126.4	893.4	785.8	744.0	732.0	732.0
60°	7705.6	6408.9	4490.7	2832.4	1511.8	929.2	791.8	717.1	699.1	714.1	714.1
62.5°	8192.6	6731.5	4607.2	2578.5	1219.0	785.8	711.1	660.3	648.4	678.2	681.2
65°	8643.7	7045.3	4681.9	2273.7	968.1	681.2	648.4	603.5	609.5	639.4	636.4
67.5°	8921.6	7305.2	4577.3	1891.3	767.9	603.5	582.6	543.8	558.7	582.6	585.6
70°	8751.3	7158.8	4060.4	1428.2	600.6	525.9	510.9	487.0	499.0	528.8	540.8
72.5°	7917.7	6411.8	3158.1	965.1	484.0	442.2	448.2	436.2	451.2	478.0	504.9
75°	6426.8	4846.2	2118.4	618.5	382.4	376.5	385.4	376.5	382.4	409.3	424.3
77.5°	3355.3	2363.4	1054.7	385.4	283.8	292.8	307.7	310.7	328.7	334.6	340.6
80°	1565.6	1063.7	439.2	215.1	188.2	206.2	236.0	239.0	245.0	254.0	257.0
82.5°	510.9	319.7	203.2	116.5	107.6	116.5	152.4	182.3	185.2	203.2	203.2
85°	53.8	32.9	44.8	47.8	41.8	50.8	68.7	65.7	29.9	17.9	17.9
87.5°	14.9	12.0	14.9	14.9	12.0	12.0	9.0	3.0	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)