

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: P478416

Luminaire Tested: **IFLD-L-SA7B-722-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478416
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-722-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

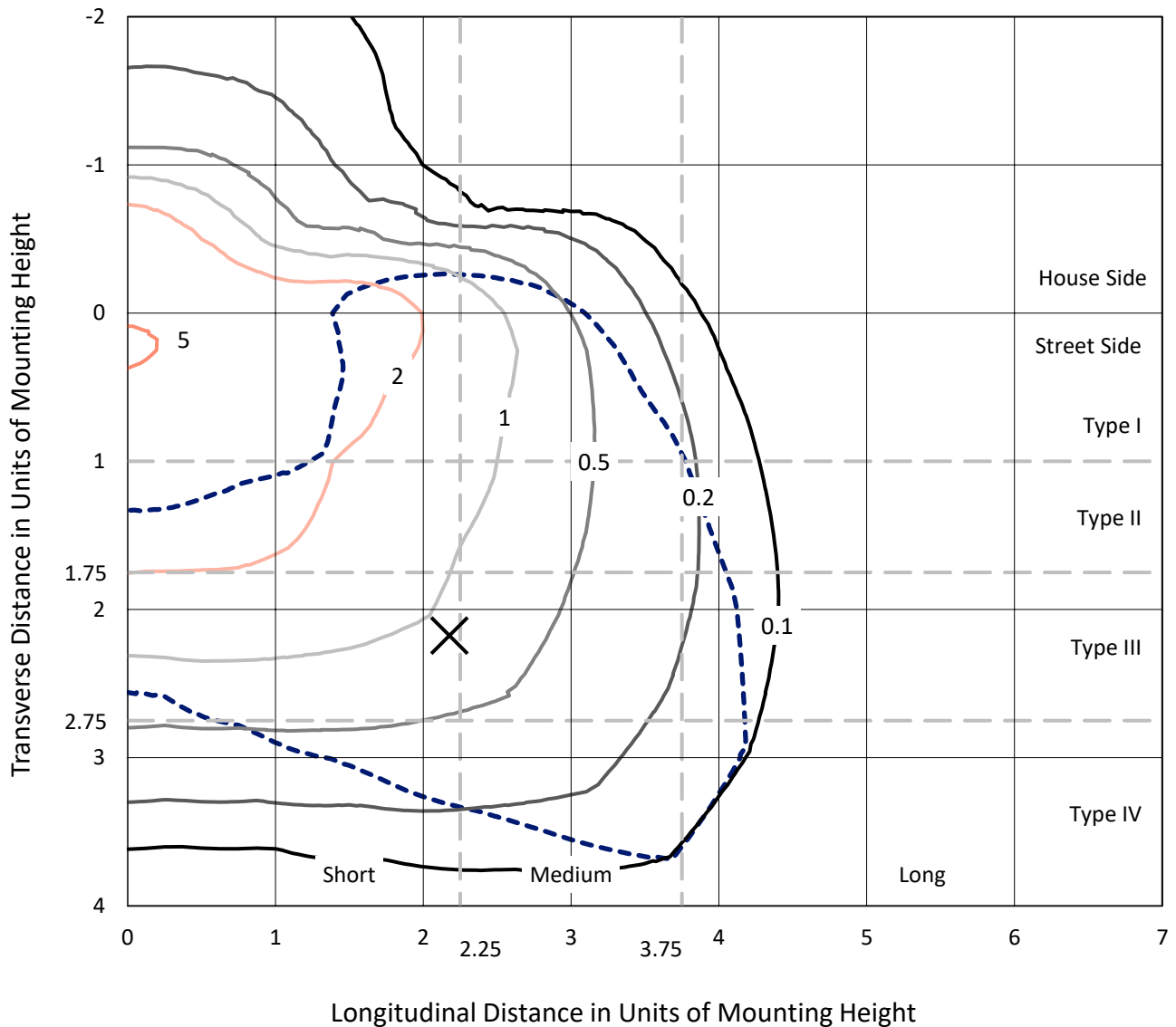
Lumens per Lamp: N/A
Luminaire Lumens: 26514.6 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 281
Input Voltage (V): 120
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

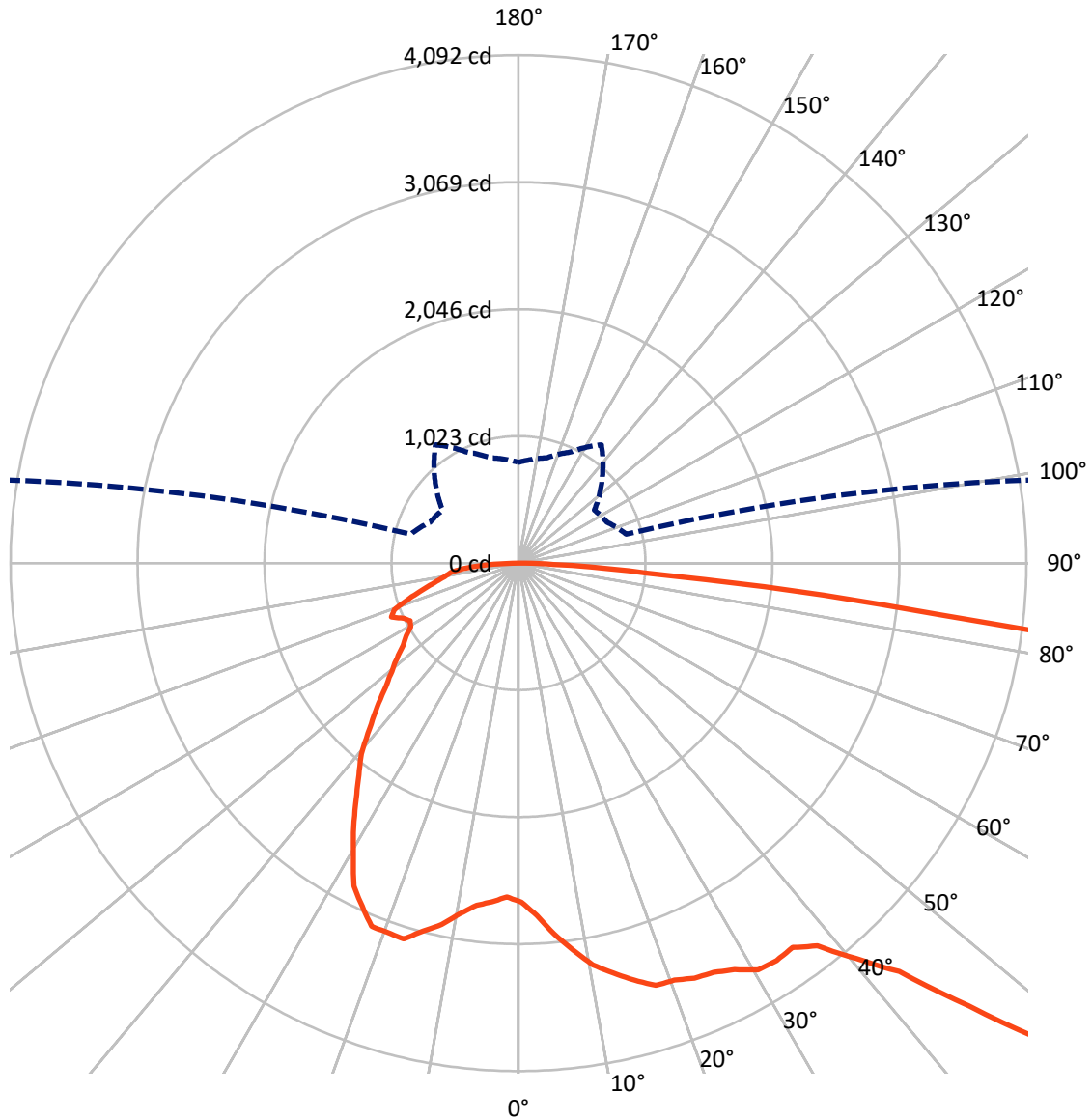
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5902.3	0.0	5902.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	20612.3	0.0	20612.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	26514.6	0.0	26514.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.4	1.1
10°-20°	929.6	3.5
20°-30°	1569.8	5.9
30°-40°	2172.4	8.2
40°-50°	3107.4	11.7
50°-60°	5011.9	18.9
60°-70°	7391.9	27.9
70°-80°	5367.8	20.2
80°-90°	684.3	2.6
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°	26514.6	100.0
0°-180°	26514.6	100.0

Coefficient of Utilization



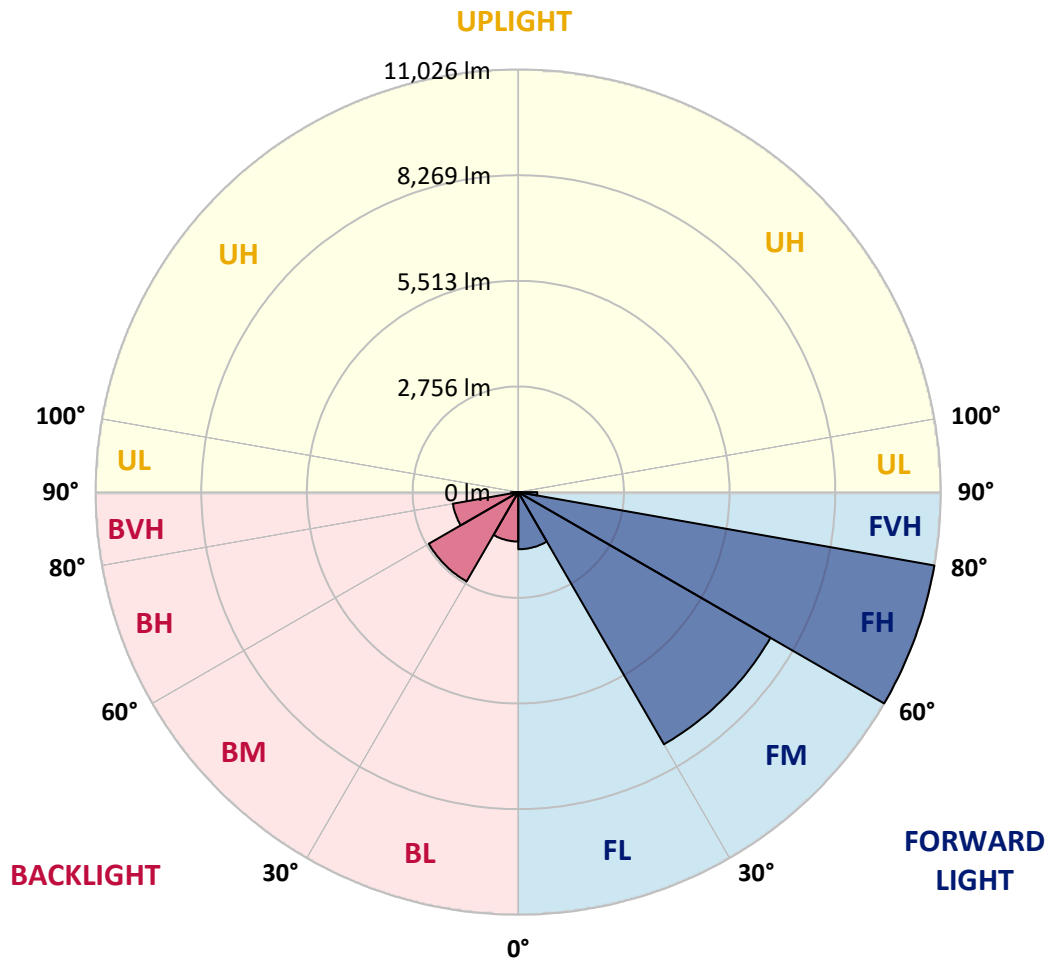
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1490.1	5.6			
FM (30°-60°)	7598.2	28.7			
FH (60°-80°)	11026.0	41.6			G4/12000
FVH (80°-90°)	498.0	1.9			G3/500
BL (0°-30°)	1288.7	4.9	B3/2500		
BM (30°-60°)	2693.6	10.2	B3/5000		
BH (60°-80°)	1733.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	186.2	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2730.5	2730.5	2730.5	2730.5	2730.5	2730.5	2730.5	2730.5	2730.5	2730.5	2730.5
2.5°	2876.3	2893.5	2876.3	2873.5	2844.9	2824.9	2842.0	2816.3	2787.7	2776.3	2750.5
5°	3139.4	3142.3	3110.8	3113.7	3053.6	2990.7	3002.2	2925.0	2842.0	2810.6	2759.1
7.5°	3408.2	3376.7	3331.0	3316.7	3222.3	3153.7	3145.1	3076.5	2947.8	2876.3	2804.9
10°	3582.6	3594.0	3519.7	3456.8	3376.7	3293.8	3290.9	3162.3	3087.9	2982.1	2890.6
12.5°	3737.0	3739.8	3676.9	3576.8	3476.8	3373.8	3388.1	3331.0	3205.2	3105.1	3013.6
15°	3857.0	3839.9	3771.3	3679.8	3574.0	3493.9	3485.4	3436.7	3331.0	3248.0	3096.5
17.5°	3891.4	3882.8	3814.2	3716.9	3614.0	3554.0	3576.8	3496.8	3453.9	3379.6	3233.7
20°	3825.6	3805.6	3794.1	3685.5	3611.2	3605.4	3585.4	3602.6	3531.1	3462.5	3356.7
22.5°	3705.5	3696.9	3691.2	3605.4	3571.1	3596.9	3631.2	3656.9	3645.5	3579.7	3459.6
25°	3582.6	3622.6	3585.4	3545.4	3594.0	3659.8	3651.2	3734.1	3734.1	3714.1	3614.0
27.5°	3668.3	3642.6	3614.0	3594.0	3611.2	3714.1	3708.4	3808.4	3845.6	3808.4	3694.1
30°	3882.8	3857.0	3774.1	3685.5	3662.6	3774.1	3802.7	3891.4	3908.5	3817.0	3719.8
32.5°	4285.9	4271.6	4140.1	3879.9	3739.8	3802.7	3817.0	3917.1	3902.8	3845.6	3805.6
35°	4883.5	4834.9	4651.9	4211.6	3902.8	3839.9	3802.7	3882.8	3937.1	3908.5	3871.3
37.5°	5538.3	5483.9	5258.1	4700.5	4197.3	3940.0	3911.4	3977.1	4040.0	4025.7	3948.5
40°	6164.4	6164.4	5961.4	5312.4	4634.7	4183.0	4188.7	4114.4	4171.6	4145.8	4160.1
42.5°	6782.0	6759.1	6676.2	6030.0	5103.7	4589.0	4497.5	4311.7	4414.6	4406.0	4426.0
45°	7408.2	7391.0	7368.1	6699.1	5775.6	5138.0	5089.4	4754.8	4849.2	4809.2	4894.9
47.5°	7908.5	7928.5	7928.5	7445.3	6493.2	5869.9	5798.4	5269.5	5449.6	5469.6	5489.6
50°	8334.5	8343.1	8334.5	8157.3	7293.8	6707.7	6561.8	6024.3	6204.4	6361.7	6544.7
52.5°	8923.5	8935.0	8894.9	8826.3	8380.3	7588.3	7425.3	6827.7	7196.6	7362.4	7691.2
55°	9649.8	9564.0	9489.7	9541.1	9423.9	8557.6	8388.9	7656.9	8211.6	8431.8	9089.4
57.5°	9784.2	9858.5	10047.2	10456.1	10624.8	9501.1	9403.9	8674.8	9358.1	9549.7	10647.6
60°	10258.8	10135.8	10599.0	11485.4	11674.1	10730.5	10630.5	9789.9	10498.9	10699.1	12085.8
62.5°	10570.4	10564.7	11250.9	12303.1	12732.0	12005.7	11802.7	11239.5	11731.3	11925.7	13652.6
65°	10478.9	10561.9	11779.9	12783.4	13615.5	13455.4	13338.1	12486.1	13135.1	13118.0	14673.4
67.5°	9644.0	9878.5	11445.3	13129.4	14930.7	15222.3	15185.2	14238.8	14275.9	13912.8	15128.0
70°	8486.1	8406.0	10030.0	12769.1	15588.3	17318.1	17309.5	15542.6	15302.4	14087.2	13824.2
72°	6519.0	6430.3	7765.6	10965.0	15242.3	18155.9	18413.2	16446.1	15291.0	13363.9	11419.6
72.5°	5918.5	5841.3	7170.9	10321.7	14859.2	18373.2	18253.1	16480.4	15170.9	13023.6	10667.6
75°	2724.8	2636.2	3582.6	6318.8	11591.2	16280.2	16689.1	15422.5	13249.5	10367.4	6390.3
77.5°	812.0	786.3	1152.3	2550.4	6736.3	11994.3	12151.6	11636.9	9249.5	5678.4	2370.3
80°	451.8	454.6	594.7	955.0	2962.1	6933.5	7499.7	7188.0	4537.5	1875.6	789.1
82.5°	251.6	265.9	371.7	566.1	1361.0	3182.3	3425.3	3302.4	1641.2	880.6	431.7
85°	131.5	137.2	194.4	303.1	772.0	1006.4	1035.0	1109.4	852.0	600.4	231.6
87.5°	51.5	51.5	71.5	125.8	285.9	311.7	280.2	340.2	488.9	388.8	114.4
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°	2730.5	2730.5	2730.5	2730.5	2730.5	2730.5	2730.5	2730.5	2730.5	2730.5	2730.5
2.5°	2773.4	2750.5	2747.7	2710.5	2721.9	2690.5	2693.4	2687.6	2690.5	2684.8	2670.5
5°	2759.1	2742.0	2693.4	2724.8	2696.2	2736.2	2767.7	2756.3	2764.8	2762.0	2764.8
7.5°	2779.1	2756.3	2750.5	2733.4	2759.1	2776.3	2802.0	2873.5	2867.8	2876.3	2893.5
10°	2839.2	2813.4	2796.3	2822.0	2807.7	2862.0	2890.6	2927.8	2993.6	2996.4	2962.1
12.5°	2956.4	2939.2	2904.9	2910.7	2959.3	2976.4	2993.6	3016.4	3059.3	3050.8	3082.2
15°	3090.8	3053.6	3033.6	3027.9	3039.3	3059.3	3056.5	3079.3	3102.2	3122.2	3113.7
17.5°	3188.0	3139.4	3145.1	3173.7	3170.8	3165.1	3128.0	3116.5	3128.0	3139.4	3133.7
20°	3288.1	3293.8	3250.9	3225.2	3213.7	3156.5	3128.0	3093.6	3059.3	3076.5	3102.2
22.5°	3413.9	3388.1	3325.2	3248.0	3190.9	3156.5	3067.9	3007.9	3007.9	3025.0	3016.4
25°	3556.8	3502.5	3393.9	3253.8	3182.3	3036.5	2973.6	2965.0	2942.1	2967.8	2979.3
27.5°	3668.3	3619.7	3471.1	3233.7	3036.5	2919.2	2882.1	2870.6	2907.8	2910.7	2956.4
30°	3714.1	3699.8	3482.5	3182.3	2887.8	2699.1	2676.2	2727.7	2767.7	2827.7	2830.6
32.5°	3774.1	3779.8	3499.6	3062.2	2693.4	2504.7	2470.3	2533.2	2647.6	2696.2	2733.4
35°	3874.2	3902.8	3485.4	2913.5	2487.5	2307.4	2301.6	2318.8	2430.3	2516.1	2564.7
37.5°	4048.6	4042.9	3482.5	2736.2	2324.5	2135.8	2090.1	2095.8	2170.1	2241.6	2233.0
40°	4283.1	4260.2	3473.9	2504.7	2112.9	1990.0	1912.8	1884.2	1878.5	1858.5	1864.2
42.5°	4603.3	4557.5	3471.1	2270.2	1921.4	1789.9	1735.5	1661.2	1606.9	1503.9	1509.7
45°	5049.3	4969.3	3396.7	2050.0	1732.7	1624.0	1541.1	1486.8	1369.6	1240.9	1240.9
47.5°	5738.4	5478.2	3399.6	1807.0	1549.7	1461.0	1403.9	1309.5	1183.7	1080.8	1069.3
50°	6753.4	6158.7	3302.4	1615.4	1401.0	1341.0	1280.9	1172.3	1052.2	980.7	989.3
52.5°	8062.9	7173.7	3299.5	1443.9	1283.8	1240.9	1175.1	1077.9	989.3	943.5	926.4
55°	9624.0	8517.5	3402.4	1303.8	1163.7	1140.8	1112.2	1032.2	946.4	906.4	903.5
57.5°	11222.3	9829.9	3568.3	1203.7	1060.8	1077.9	1057.9	995.0	926.4	880.6	874.9
60°	12643.3	10870.6	3233.7	1083.6	969.3	1006.4	1035.0	980.7	943.5	940.7	920.7
62.5°	13715.5	11316.7	2458.9	992.1	920.7	989.3	1066.5	1100.8	1083.6	1106.5	1109.4
65°	14107.2	11047.9	1692.6	943.5	883.5	1029.3	1200.9	1189.4	1089.4	1046.5	1069.3
67.5°	13558.3	9958.6	1255.2	886.3	857.8	1112.2	1278.1	1135.1	983.6	977.8	960.7
70°	11659.8	8440.3	1023.6	826.3	814.9	1066.5	1243.7	1052.2	926.4	889.2	872.1
72°	9289.5	6573.3	897.8	783.4	746.2	952.1	1163.7	986.4	877.8	832.0	812.0
72.5°	8480.4	6092.9	880.6	763.4	732.0	926.4	1123.7	966.4	866.3	826.3	794.9
75°	4651.9	3119.4	774.8	700.5	617.6	800.6	1040.7	906.4	817.7	760.5	754.8
77.5°	1729.8	1209.4	669.1	620.4	534.7	691.9	946.4	860.6	743.4	671.9	657.6
80°	663.3	637.6	546.1	523.2	448.9	606.1	872.1	772.0	631.9	560.4	537.5
82.5°	403.1	371.7	414.6	408.9	343.1	551.8	820.6	723.4	560.4	454.6	440.3
85°	220.2	220.2	288.8	277.3	240.2	440.3	620.4	480.3	354.5	291.6	297.4
87.5°	97.2	114.4	154.4	145.8	131.5	248.7	303.1	254.5	177.3	120.1	128.7
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)