

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: P478459

Luminaire Tested: **IFLD-L-SA8A-727-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478459
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-727-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

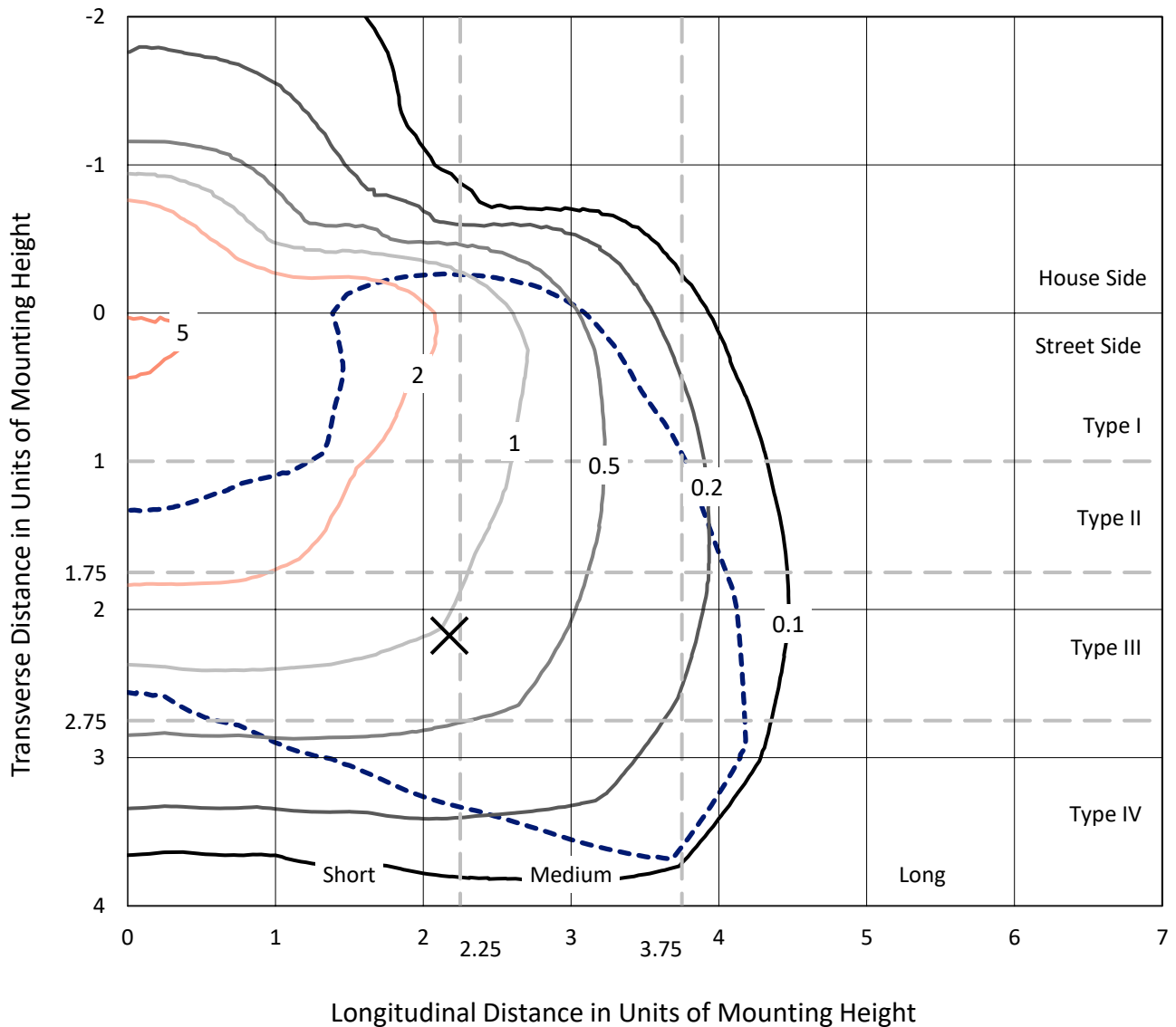
Lumens per Lamp: N/A
Luminaire Lumens: 28957.3 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 247.8
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

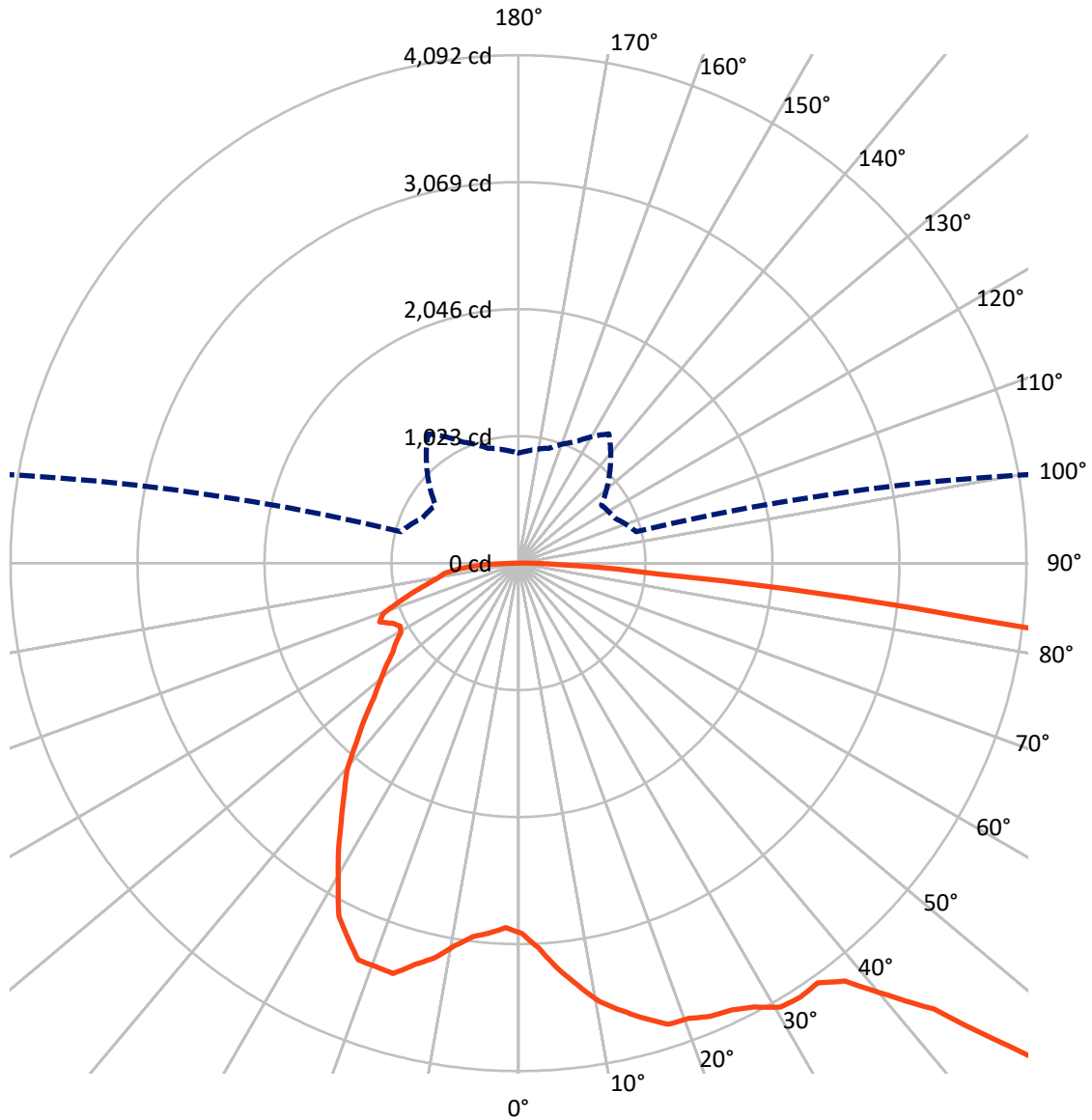
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	6446.1	0.0	6446.1
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	22511.3	0.0	22511.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	28957.3	0.0	28957.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.1	1.1
10°-20°	1015.3	3.5
20°-30°	1714.5	5.9
30°-40°	2372.6	8.2
40°-50°	3393.7	11.7
50°-60°	5473.7	18.9
60°-70°	8072.9	27.9
70°-80°	5862.3	20.2
80°-90°	747.3	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°	28957.3	100.0
0°-180°	28957.3	100.0

Coefficient of Utilization



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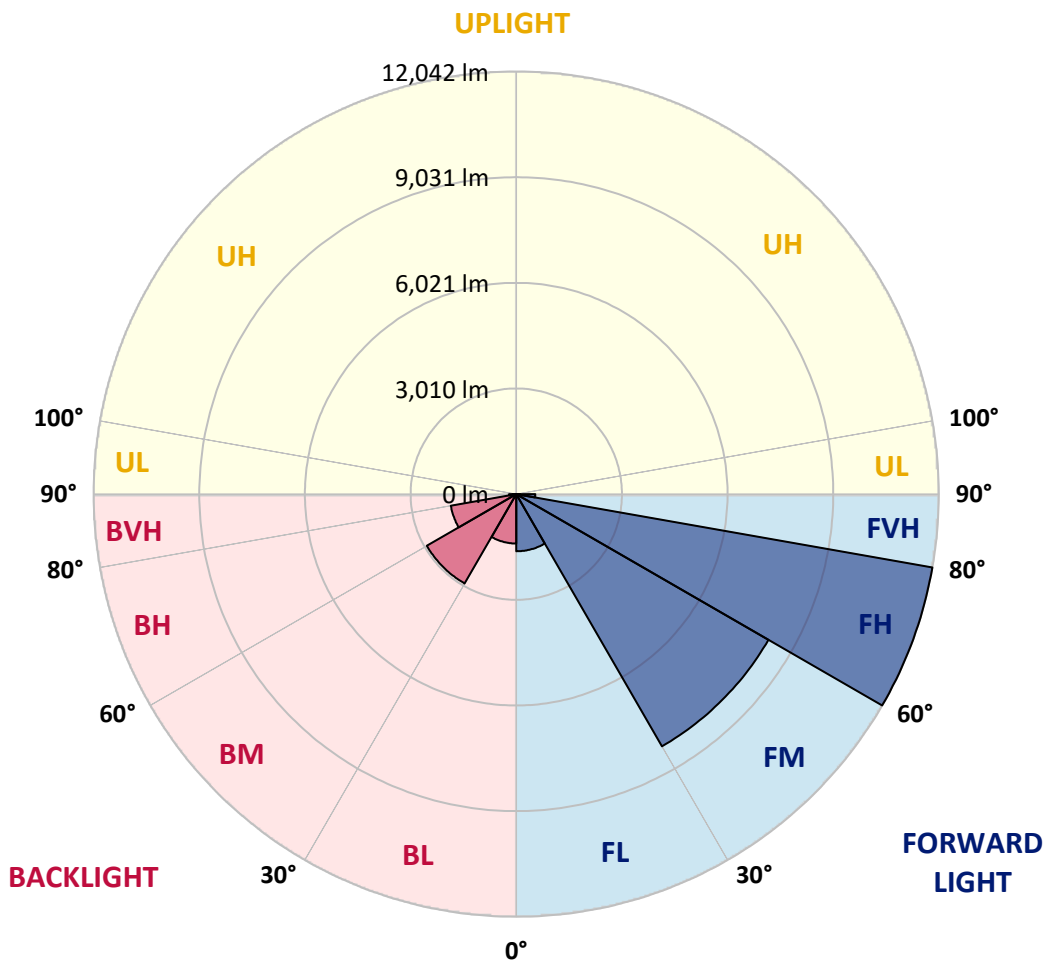
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1627.4	5.6			
FM	(30°-60°)	8298.2	28.7			
FH	(60°-80°)	12041.7	41.6			G5
FVH	(80°-90°)	543.9	1.9			G4/750
BL	(0°-30°)	1407.5	4.9	B3/2500		
BM	(30°-60°)	2941.8	10.2	B3/5000		
BH	(60°-80°)	1893.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	203.4	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2982.1	2982.1	2982.1	2982.1	2982.1	2982.1	2982.1	2982.1	2982.1	2982.1	2982.1
2.5°	3141.3	3160.1	3141.3	3138.2	3107.0	3085.1	3103.9	3075.8	3044.5	3032.0	3003.9
5°	3428.6	3431.7	3397.4	3400.5	3334.9	3266.2	3278.7	3194.4	3103.9	3069.5	3013.3
7.5°	3722.1	3687.8	3637.8	3622.2	3519.2	3444.2	3434.9	3359.9	3219.4	3141.3	3063.3
10°	3912.6	3925.1	3843.9	3775.2	3687.8	3597.2	3594.1	3453.6	3372.4	3256.9	3156.9
12.5°	4081.2	4084.4	4015.7	3906.4	3797.1	3684.7	3700.3	3637.8	3500.4	3391.1	3291.2
15°	4212.4	4193.6	4118.7	4018.8	3903.2	3815.8	3806.4	3753.4	3637.8	3547.3	3381.8
17.5°	4249.9	4240.5	4165.5	4059.4	3947.0	3881.4	3906.4	3818.9	3772.1	3690.9	3531.7
20°	4178.0	4156.2	4143.7	4025.0	3943.8	3937.6	3915.7	3934.5	3856.4	3781.5	3665.9
22.5°	4046.9	4037.5	4031.3	3937.6	3900.1	3928.2	3965.7	3993.8	3981.3	3909.5	3778.3
25°	3912.6	3956.3	3915.7	3872.0	3925.1	3996.9	3987.6	4078.1	4078.1	4056.3	3947.0
27.5°	4006.3	3978.2	3947.0	3925.1	3943.8	4056.3	4050.0	4159.3	4199.9	4159.3	4034.4
30°	4240.5	4212.4	4121.8	4025.0	4000.0	4121.8	4153.1	4249.9	4268.6	4168.7	4062.5
32.5°	4680.8	4665.2	4521.5	4237.4	4084.4	4153.1	4168.7	4278.0	4262.3	4199.9	4156.2
35°	5333.4	5280.3	5080.5	4599.6	4262.3	4193.6	4153.1	4240.5	4299.8	4268.6	4228.0
37.5°	6048.5	5989.1	5742.5	5133.5	4584.0	4302.9	4271.7	4343.5	4412.2	4396.6	4312.3
40°	6732.3	6732.3	6510.6	5801.8	5061.7	4568.4	4574.6	4493.4	4555.9	4527.8	4543.4
42.5°	7406.8	7381.8	7291.3	6585.6	5573.8	5011.8	4911.8	4708.9	4821.3	4811.9	4833.8
45°	8090.6	8071.9	8046.9	7316.2	6307.6	5611.3	5558.2	5192.9	5295.9	5252.2	5345.9
47.5°	8637.1	8659.0	8659.0	8131.2	7091.4	6410.7	6332.6	5754.9	5951.7	5973.5	5995.4
50°	9102.4	9111.7	9102.4	8908.8	7965.7	7325.6	7166.4	6579.3	6776.0	6947.8	7147.6
52.5°	9745.6	9758.1	9714.4	9639.5	9152.3	8287.4	8109.4	7456.8	7859.6	8040.7	8399.8
55°	10538.8	10445.1	10363.9	10420.1	10292.1	9345.9	9161.7	8362.3	8968.1	9208.5	9926.7
57.5°	10685.5	10766.7	10972.8	11419.3	11603.6	10376.4	10270.2	9474.0	10220.3	10429.5	11628.5
60°	11203.9	11069.6	11575.5	12543.5	12749.6	11719.1	11609.8	10691.8	11466.2	11684.8	13199.2
62.5°	11544.2	11538.0	12287.4	13436.5	13904.9	13111.8	12890.1	12274.9	12812.0	13024.3	14910.4
65°	11444.3	11534.9	12865.1	13961.1	14869.8	14694.9	14566.9	13636.4	14345.2	14326.5	16025.2
67.5°	10532.5	10788.6	12499.8	14339.0	16306.2	16624.7	16584.1	15550.5	15591.1	15194.6	16521.7
70°	9267.9	9180.4	10954.1	13945.5	17024.4	18913.6	18904.2	16974.4	16712.1	15385.0	15097.8
72°	7119.5	7022.7	8481.0	11975.2	16646.6	19828.5	20109.5	17961.2	16699.6	14595.0	12471.6
72.5°	6463.8	6379.5	7831.5	11272.6	16228.1	20065.8	19934.7	17998.6	16568.5	14223.4	11650.4
75°	2975.8	2879.0	3912.6	6900.9	12659.0	17780.1	18226.6	16843.3	14470.1	11322.5	6979.0
77.5°	886.8	858.7	1258.4	2785.4	7356.8	13099.3	13271.0	12709.0	10101.6	6201.5	2588.6
80°	493.4	496.5	649.5	1042.9	3235.0	7572.3	8190.6	7850.2	4955.6	2048.4	861.8
82.5°	274.8	290.4	405.9	618.3	1486.4	3475.4	3740.9	3606.6	1792.4	961.8	471.5
85°	143.6	149.9	212.3	331.0	843.1	1099.2	1130.4	1211.6	930.5	655.7	252.9
87.5°	56.2	56.2	78.1	137.4	312.3	340.4	306.0	371.6	534.0	424.7	124.9
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°	2982.1	2982.1	2982.1	2982.1	2982.1	2982.1	2982.1	2982.1	2982.1	2982.1	2982.1
2.5°	3028.9	3003.9	3000.8	2960.2	2972.7	2938.4	2941.5	2935.2	2938.4	2932.1	2916.5
5°	3013.3	2994.6	2941.5	2975.8	2944.6	2988.3	3022.7	3010.2	3019.6	3016.4	3019.6
7.5°	3035.2	3010.2	3003.9	2985.2	3013.3	3032.0	3060.1	3138.2	3132.0	3141.3	3160.1
10°	3100.7	3072.6	3053.9	3082.0	3066.4	3125.7	3156.9	3197.5	3269.4	3272.5	3235.0
12.5°	3228.8	3210.0	3172.6	3178.8	3231.9	3250.6	3269.4	3294.3	3341.2	3331.8	3366.2
15°	3375.5	3334.9	3313.1	3306.8	3319.3	3341.2	3338.1	3363.0	3388.0	3409.9	3400.5
17.5°	3481.7	3428.6	3434.9	3466.1	3463.0	3456.7	3416.1	3403.6	3416.1	3428.6	3422.4
20°	3591.0	3597.2	3550.4	3522.3	3509.8	3447.3	3416.1	3378.6	3341.2	3359.9	3388.0
22.5°	3728.4	3700.3	3631.6	3547.3	3484.8	3447.3	3350.5	3285.0	3285.0	3303.7	3294.3
25°	3884.5	3825.2	3706.5	3553.5	3475.4	3316.2	3247.5	3238.1	3213.2	3241.3	3253.7
27.5°	4006.3	3953.2	3790.8	3531.7	3316.2	3188.2	3147.6	3135.1	3175.7	3178.8	3228.8
30°	4056.3	4040.6	3803.3	3475.4	3153.8	2947.7	2922.7	2979.0	3022.7	3088.2	3091.4
32.5°	4121.8	4128.1	3822.1	3344.3	2941.5	2735.4	2697.9	2766.6	2891.5	2944.6	2985.2
35°	4231.1	4262.3	3806.4	3181.9	2716.7	2519.9	2513.7	2532.4	2654.2	2747.9	2801.0
37.5°	4421.6	4415.4	3803.3	2988.3	2538.7	2332.6	2282.6	2288.9	2370.1	2448.1	2438.7
40°	4677.6	4652.7	3794.0	2735.4	2307.6	2173.3	2089.0	2057.8	2051.5	2029.7	2035.9
42.5°	5027.4	4977.4	3790.8	2479.3	2098.4	1954.7	1895.4	1814.2	1754.9	1642.5	1648.7
45°	5514.5	5427.1	3709.6	2238.9	1892.3	1773.6	1683.1	1623.7	1495.7	1355.2	1355.2
47.5°	6267.1	5982.9	3712.8	1973.5	1692.4	1595.6	1533.2	1430.1	1292.8	1180.3	1167.9
50°	7375.6	6726.1	3606.6	1764.3	1530.1	1464.5	1398.9	1280.3	1149.1	1071.1	1080.4
52.5°	8805.7	7834.6	3603.5	1576.9	1402.0	1355.2	1283.4	1177.2	1080.4	1030.5	1011.7
55°	10510.7	9302.2	3715.9	1423.9	1270.9	1245.9	1214.7	1127.3	1033.6	989.9	986.7
57.5°	12256.2	10735.5	3897.0	1314.6	1158.5	1177.2	1155.4	1086.7	1011.7	961.8	955.5
60°	13808.1	11872.1	3531.7	1183.5	1058.6	1099.2	1130.4	1071.1	1030.5	1027.3	1005.5
62.5°	14979.1	12359.2	2685.4	1083.5	1005.5	1080.4	1164.7	1202.2	1183.5	1208.4	1211.6
65°	15406.9	12065.7	1848.6	1030.5	964.9	1124.1	1311.5	1299.0	1189.7	1142.9	1167.9
67.5°	14807.4	10876.0	1370.8	968.0	936.8	1214.7	1395.8	1239.7	1074.2	1067.9	1049.2
70°	12733.9	9217.9	1117.9	902.4	889.9	1164.7	1358.3	1149.1	1011.7	971.1	952.4
72°	10145.3	7178.8	980.5	855.6	815.0	1039.8	1270.9	1077.3	958.6	908.7	886.8
72.5°	9261.6	6654.3	961.8	833.7	799.4	1011.7	1227.2	1055.4	946.1	902.4	868.1
75°	5080.5	3406.8	846.2	765.0	674.5	874.3	1136.6	989.9	893.1	830.6	824.4
77.5°	1889.2	1320.9	730.7	677.6	583.9	755.7	1033.6	939.9	811.9	733.8	718.2
80°	724.4	696.3	596.4	571.4	490.2	662.0	952.4	843.1	690.1	612.0	587.0
82.5°	440.3	405.9	452.8	446.5	374.7	602.7	896.2	790.0	612.0	496.5	480.9
85°	240.4	240.4	315.4	302.9	262.3	480.9	677.6	524.6	387.2	318.5	324.7
87.5°	106.2	124.9	168.6	159.3	143.6	271.7	331.0	277.9	193.6	131.1	140.5
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)