

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: P478445

Luminaire Tested: **IFLD-S-SA6B-727-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478445
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-727-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

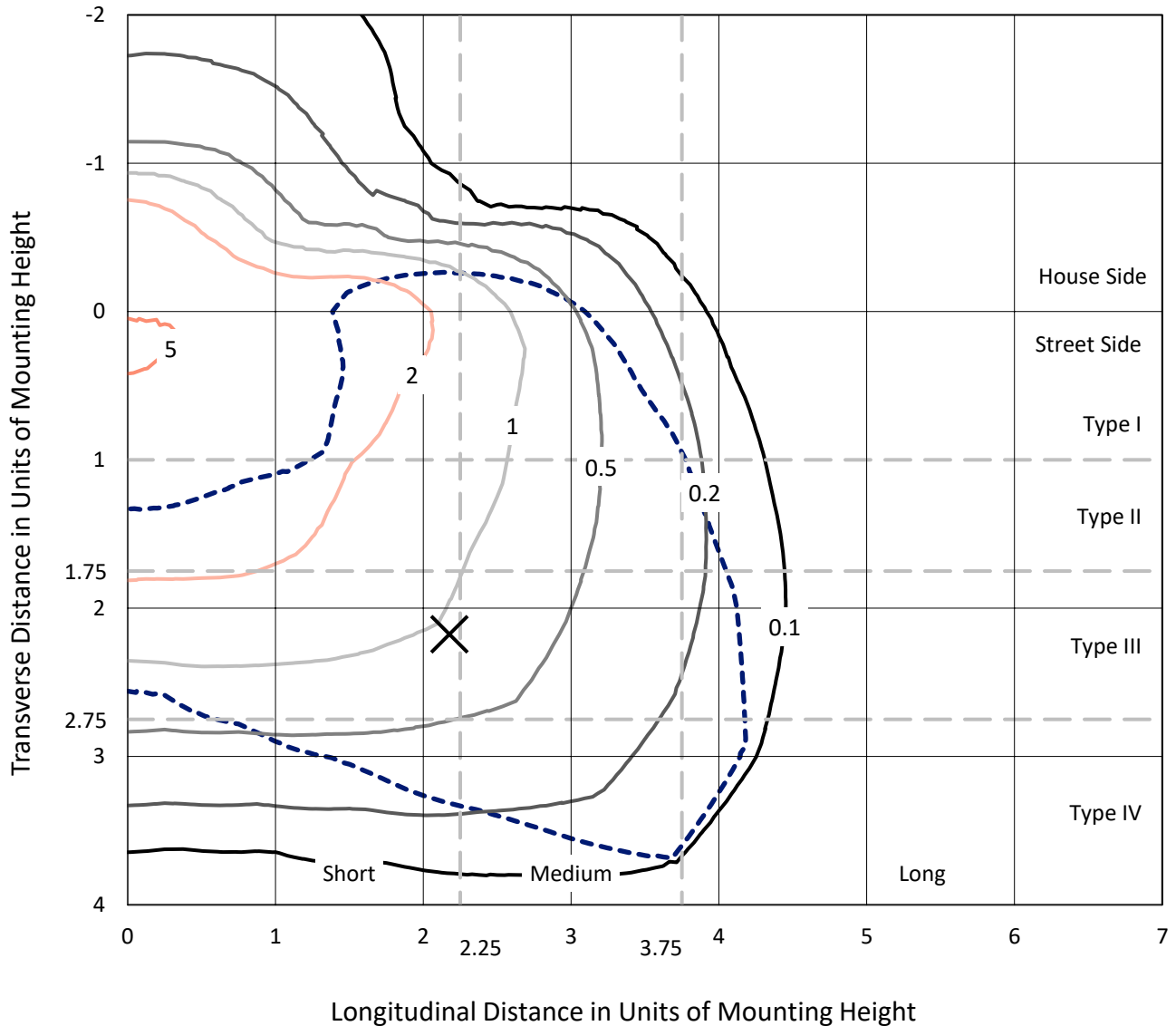
Lumens per Lamp: N/A
Luminaire Lumens: 28216.4 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 244.9
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

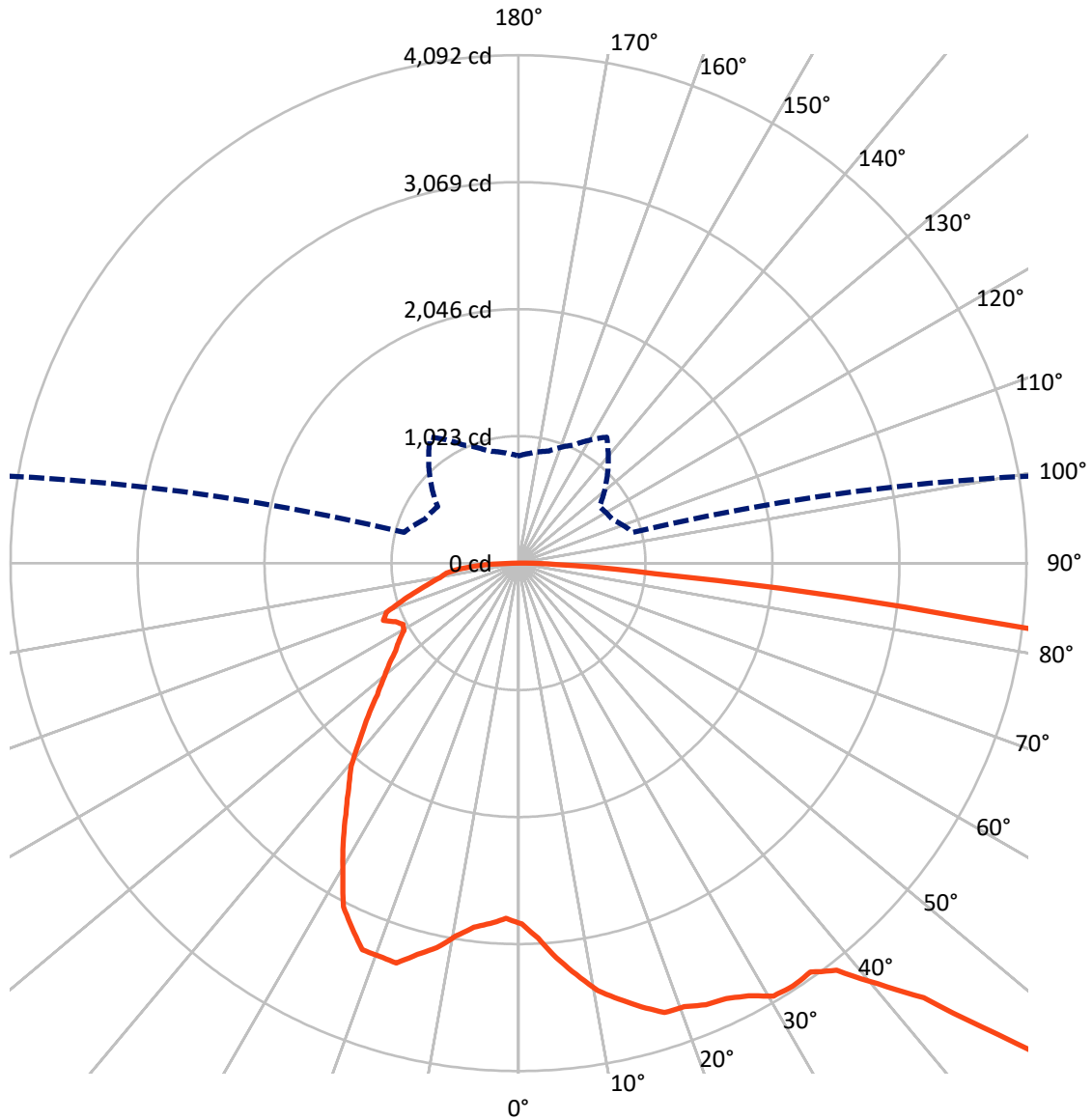
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	6281.1	0.0	6281.1
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	21935.2	0.0	21935.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	28216.4	0.0	28216.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.3	1.1
10°-20°	989.3	3.5
20°-30°	1670.6	5.9
30°-40°	2311.8	8.2
40°-50°	3306.9	11.7
50°-60°	5333.6	18.9
60°-70°	7866.3	27.9
70°-80°	5712.3	20.2
80°-90°	728.2	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°	28216.4	100.0
0°-180°	28216.4	100.0



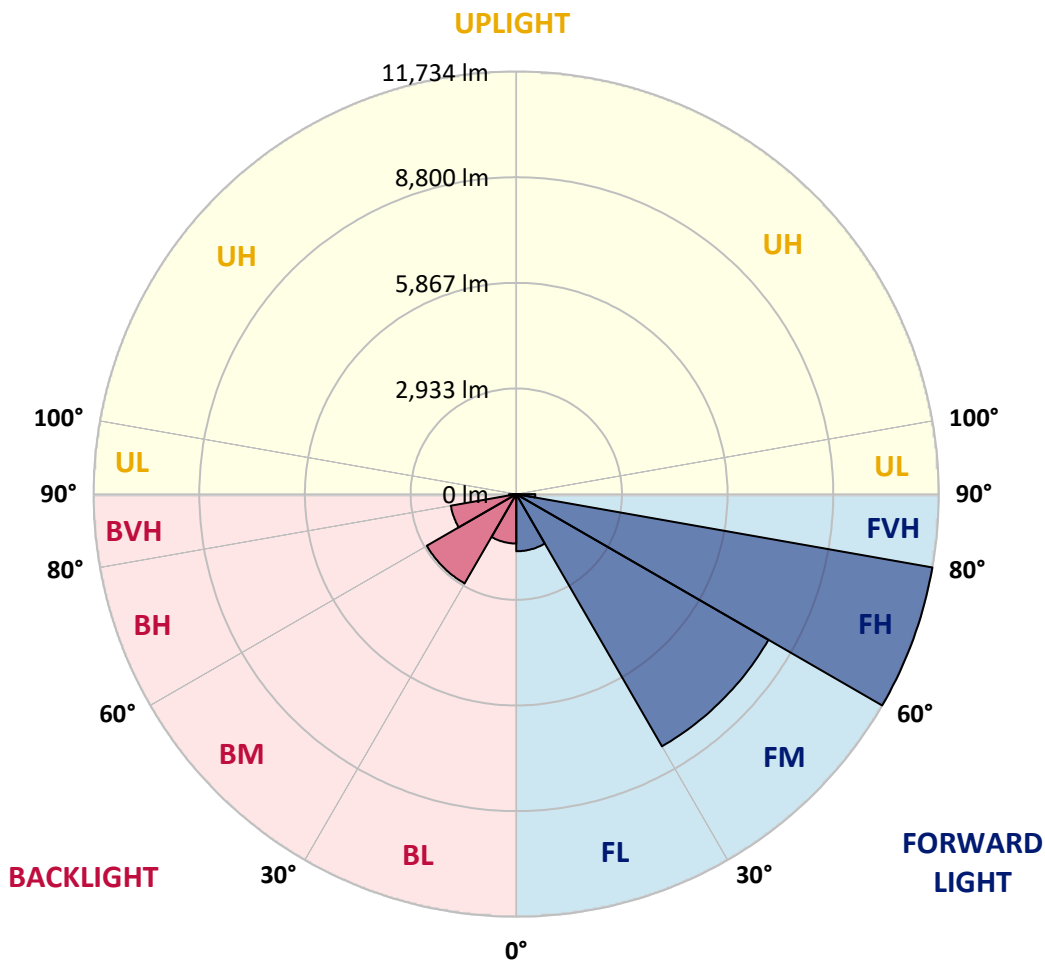
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1585.8	5.6			
FM (30°-60°)	8085.8	28.7			
FH (60°-80°)	11733.6	41.6			G4/12000
FVH (80°-90°)	530.0	1.9			G4/750
BL (0°-30°)	1371.4	4.9	B3/2500		
BM (30°-60°)	2866.5	10.2	B3/5000		
BH (60°-80°)	1845.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	198.2	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°	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8
2.5°	3061.0	3079.2	3061.0	3057.9	3027.5	3006.2	3024.4	2997.1	2966.6	2954.5	2927.1
5°	3340.9	3343.9	3310.5	3313.5	3249.6	3182.7	3194.8	3112.7	3024.4	2991.0	2936.2
7.5°	3626.9	3593.4	3544.7	3529.5	3429.1	3356.1	3347.0	3273.9	3137.0	3061.0	2984.9
10°	3812.5	3824.7	3745.6	3678.6	3593.4	3505.2	3502.1	3365.2	3286.1	3173.5	3076.2
12.5°	3976.8	3979.8	3912.9	3806.4	3699.9	3590.4	3605.6	3544.7	3410.9	3304.4	3207.0
15°	4104.6	4086.3	4013.3	3915.9	3803.4	3718.2	3709.0	3657.3	3544.7	3456.5	3295.2
17.5°	4141.1	4132.0	4059.0	3955.5	3846.0	3782.1	3806.4	3721.2	3675.6	3596.5	3441.3
20°	4071.1	4049.8	4037.7	3922.0	3842.9	3836.8	3815.5	3833.8	3757.7	3684.7	3572.1
22.5°	3943.3	3934.2	3928.1	3836.8	3800.3	3827.7	3864.2	3891.6	3879.4	3809.5	3681.7
25°	3812.5	3855.1	3815.5	3772.9	3824.7	3894.6	3885.5	3973.8	3973.8	3952.5	3846.0
27.5°	3903.8	3876.4	3846.0	3824.7	3842.9	3952.5	3946.4	4052.9	4092.4	4052.9	3931.2
30°	4132.0	4104.6	4016.4	3922.0	3897.7	4016.4	4046.8	4141.1	4159.4	4062.0	3958.5
32.5°	4561.0	4545.8	4405.8	4128.9	3979.8	4046.8	4062.0	4168.5	4153.3	4092.4	4049.8
35°	5196.9	5145.2	4950.5	4481.9	4153.3	4086.3	4046.8	4132.0	4189.8	4159.4	4119.8
37.5°	5893.7	5835.9	5595.5	5002.2	4466.7	4192.8	4162.4	4232.4	4299.3	4284.1	4202.0
40°	6560.0	6560.0	6344.0	5653.3	4932.2	4451.5	4457.5	4378.4	4439.3	4411.9	4427.1
42.5°	7217.3	7192.9	7104.7	6417.0	5431.2	4883.5	4786.2	4588.4	4697.9	4688.8	4710.1
45°	7883.6	7865.4	7841.0	7129.0	6146.2	5467.7	5416.0	5060.0	5160.4	5117.8	5209.1
47.5°	8416.1	8437.4	8437.4	7923.2	6910.0	6246.7	6170.6	5607.7	5799.4	5820.7	5842.0
50°	8869.5	8878.6	8869.5	8680.8	7761.9	7138.2	6983.0	6411.0	6602.6	6770.0	6964.7
52.5°	9496.2	9508.4	9465.8	9392.8	8918.1	8075.3	7901.9	7266.0	7658.5	7834.9	8184.8
55°	10269.1	10177.8	10098.7	10153.5	10028.7	9106.8	8927.3	8148.3	8738.6	8972.9	9672.7
57.5°	10412.1	10491.2	10692.0	11127.1	11306.7	10110.9	10007.4	9231.5	9958.7	10162.6	11331.0
60°	10917.2	10786.3	11279.3	12222.5	12423.3	11419.2	11312.7	10418.2	11172.8	11385.8	12861.5
62.5°	11248.8	11242.8	11973.0	13092.7	13549.1	12776.3	12560.2	11960.8	12484.2	12691.1	14528.9
65°	11151.5	11239.7	12535.9	13603.9	14489.3	14318.9	14194.2	13287.4	13978.1	13959.9	15615.1
67.5°	10263.0	10512.5	12179.9	13972.1	15888.9	16199.3	16159.7	15152.6	15192.2	14805.7	16098.9
70°	9030.7	8945.5	10673.8	13588.7	16588.8	18429.6	18420.5	16540.1	16284.5	14991.4	14711.4
72°	6937.3	6843.0	8264.0	11668.7	16220.6	19321.1	19594.9	17501.6	16272.3	14221.6	12152.5
72.5°	6298.4	6216.2	7631.1	10984.1	15812.9	19552.4	19424.6	17538.1	16144.5	13859.5	11352.3
75°	2899.7	2805.4	3812.5	6724.4	12335.1	17325.1	17760.2	16412.3	14099.8	11032.8	6800.4
77.5°	864.1	836.7	1226.2	2714.1	7168.6	12764.1	12931.4	12383.8	9843.1	6042.8	2522.4
80°	480.7	483.8	632.9	1016.3	3152.2	7378.5	7981.0	7649.3	4828.8	1996.0	839.8
82.5°	267.8	283.0	395.6	602.5	1448.3	3386.5	3645.1	3514.3	1746.5	937.1	459.4
85°	140.0	146.0	206.9	322.5	821.5	1071.0	1101.5	1180.6	906.7	639.0	246.5
87.5°	54.8	54.8	76.1	133.9	304.3	331.7	298.2	362.1	520.3	413.8	121.7
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°	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8	2905.8
2.5°	2951.4	2927.1	2924.0	2884.5	2896.6	2863.2	2866.2	2860.1	2863.2	2857.1	2841.9
5°	2936.2	2917.9	2866.2	2899.7	2869.3	2911.9	2945.3	2933.2	2942.3	2939.2	2942.3
7.5°	2957.5	2933.2	2927.1	2908.8	2936.2	2954.5	2981.8	3057.9	3051.8	3061.0	3079.2
10°	3021.4	2994.0	2975.8	3003.1	2987.9	3045.7	3076.2	3115.7	3185.7	3188.7	3152.2
12.5°	3146.1	3127.9	3091.4	3097.5	3149.2	3167.4	3185.7	3210.0	3255.7	3246.6	3280.0
15°	3289.2	3249.6	3228.3	3222.2	3234.4	3255.7	3252.6	3277.0	3301.3	3322.6	3313.5
17.5°	3392.6	3340.9	3347.0	3377.4	3374.3	3368.3	3328.7	3316.5	3328.7	3340.9	3334.8
20°	3499.1	3505.2	3459.5	3432.2	3420.0	3359.1	3328.7	3292.2	3255.7	3273.9	3301.3
22.5°	3633.0	3605.6	3538.7	3456.5	3395.6	3359.1	3264.8	3200.9	3200.9	3219.2	3210.0
25°	3785.1	3727.3	3611.7	3462.6	3386.5	3231.3	3164.4	3155.3	3130.9	3158.3	3170.5
27.5°	3903.8	3852.1	3693.8	3441.3	3231.3	3106.6	3067.0	3054.9	3094.4	3097.5	3146.1
30°	3952.5	3937.2	3706.0	3386.5	3073.1	2872.3	2848.0	2902.7	2945.3	3009.2	3012.3
32.5°	4016.4	4022.4	3724.3	3258.7	2866.2	2665.4	2628.9	2695.8	2817.5	2869.3	2908.8
35°	4122.9	4153.3	3709.0	3100.5	2647.1	2455.5	2449.4	2467.6	2586.3	2677.6	2729.3
37.5°	4308.5	4302.4	3706.0	2911.9	2473.7	2272.9	2224.2	2230.3	2309.4	2385.5	2376.3
40°	4558.0	4533.6	3696.9	2665.4	2248.6	2117.7	2035.6	2005.1	1999.0	1977.8	1983.8
42.5°	4898.7	4850.1	3693.8	2415.9	2044.7	1904.7	1846.9	1767.8	1710.0	1600.5	1606.5
45°	5373.4	5288.2	3614.7	2181.6	1843.9	1728.3	1640.0	1582.2	1457.5	1320.5	1320.5
47.5°	6106.7	5829.8	3617.8	1923.0	1649.1	1554.8	1494.0	1393.6	1259.7	1150.1	1138.0
50°	7186.8	6554.0	3514.3	1719.1	1490.9	1427.0	1363.1	1247.5	1119.7	1043.6	1052.8
52.5°	8580.4	7634.1	3511.3	1536.6	1366.2	1320.5	1250.5	1147.1	1052.8	1004.1	985.8
55°	10241.7	9064.2	3620.8	1387.5	1238.4	1214.0	1183.6	1098.4	1007.1	964.5	961.5
57.5°	11942.6	10460.8	3797.3	1281.0	1128.8	1147.1	1125.8	1058.9	985.8	937.1	931.1
60°	13454.8	11568.3	3441.3	1153.2	1031.5	1071.0	1101.5	1043.6	1004.1	1001.0	979.7
62.5°	14595.8	12043.0	2616.7	1055.8	979.7	1052.8	1134.9	1171.4	1153.2	1177.5	1180.6
65°	15012.7	11757.0	1801.3	1004.1	940.2	1095.4	1277.9	1265.8	1159.3	1113.6	1138.0
67.5°	14428.5	10597.7	1335.7	943.2	912.8	1183.6	1360.1	1207.9	1046.7	1040.6	1022.3
70°	12408.1	8982.0	1089.3	879.3	867.2	1134.9	1323.6	1119.7	985.8	946.3	928.0
72°	9885.7	6995.2	955.4	833.7	794.1	1013.2	1238.4	1049.7	934.1	885.4	864.1
72.5°	9024.6	6484.0	937.1	812.4	778.9	985.8	1195.8	1028.4	921.9	879.3	845.9
75°	4950.5	3319.6	824.6	745.5	657.2	852.0	1107.5	964.5	870.2	809.4	803.3
77.5°	1840.8	1287.1	712.0	660.3	569.0	736.3	1007.1	915.9	791.1	715.0	699.8
80°	705.9	678.5	581.2	556.8	477.7	645.1	928.0	821.5	672.4	596.4	572.0
82.5°	429.0	395.6	441.2	435.1	365.1	587.2	873.3	769.8	596.4	483.8	468.6
85°	234.3	234.3	307.3	295.1	255.6	468.6	660.3	511.2	377.3	310.4	316.4
87.5°	103.5	121.7	164.3	155.2	140.0	264.7	322.5	270.8	188.6	127.8	136.9
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)