

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: P476628

Luminaire Tested: **IFLD-L-SA8C-740-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476628  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-740-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (128) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

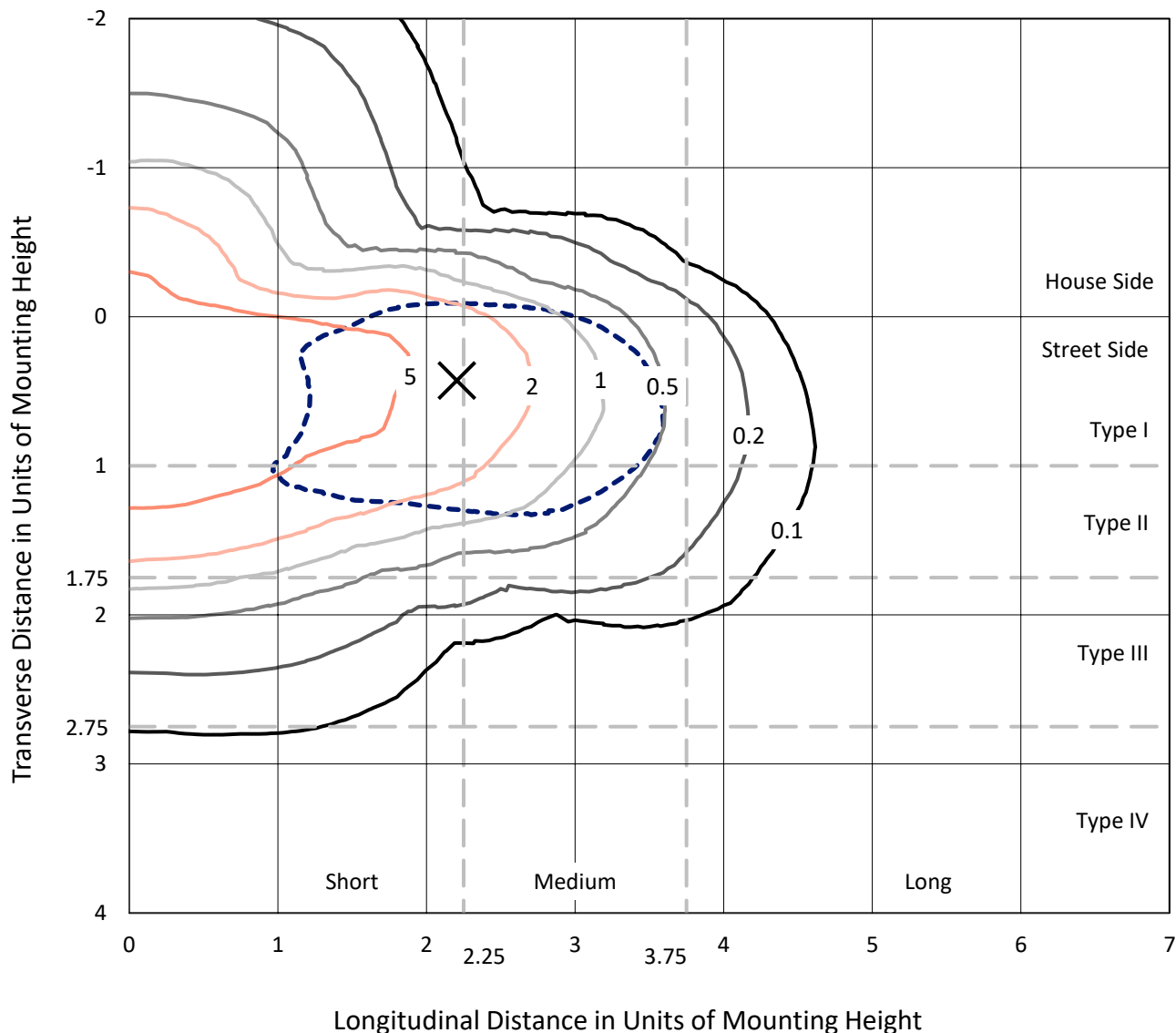
Lumens per Lamp: N/A  
Luminaire Lumens: 50602.8 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 420.3  
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

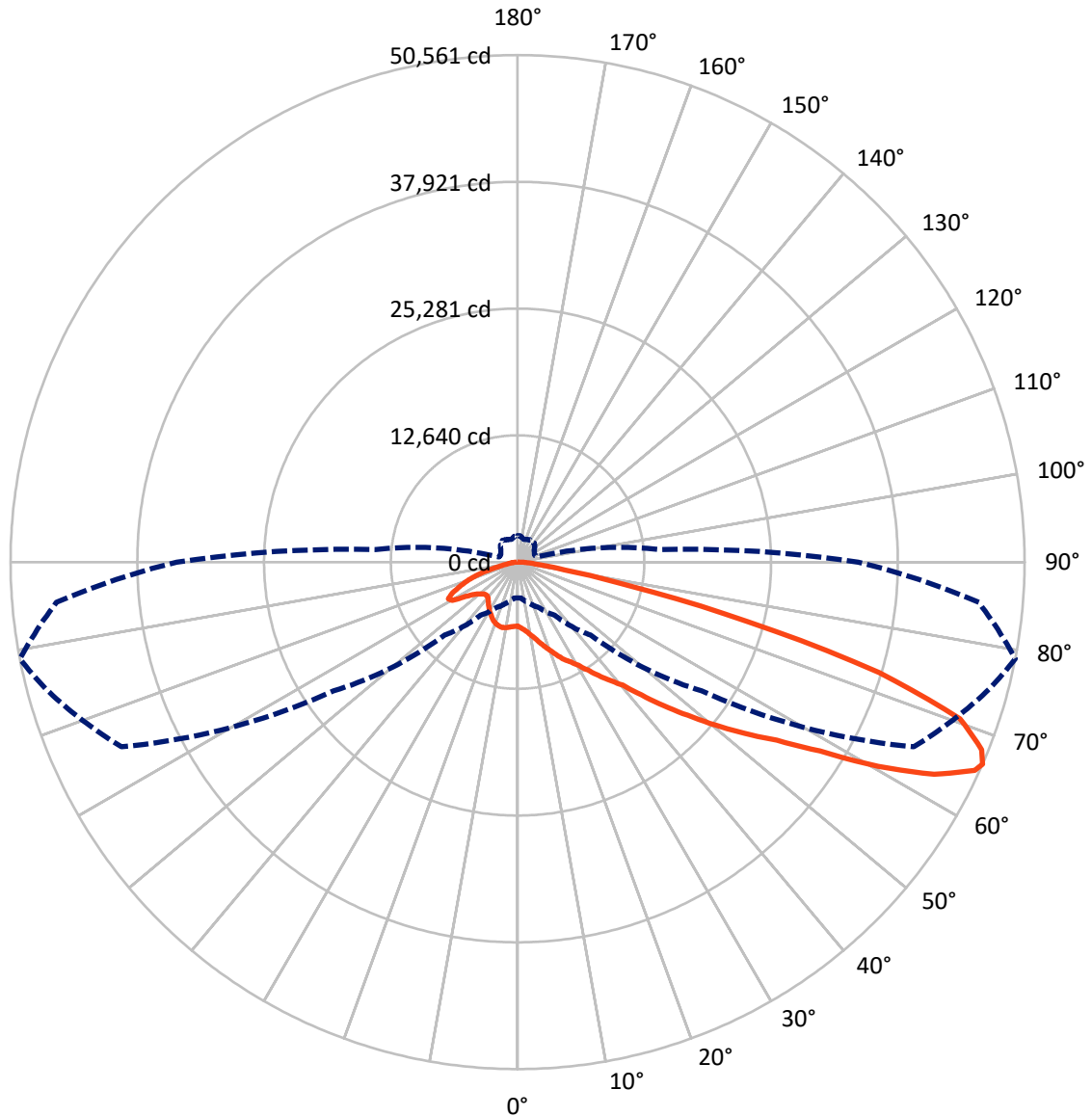
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10218.5	0.0	10218.5
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	40384.3	0.0	40384.3
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	50602.8	0.0	50602.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	628.3	1.2
10°-20°	1940.2	3.8
20°-30°	3330.4	6.6
30°-40°	5144.7	10.2
40°-50°	8240.6	16.3
50°-60°	12303.7	24.3
60°-70°	12642.1	25.0
70°-80°	5604.0	11.1
80°-90°	768.9	1.5
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°	50602.8	100.0
0°-180°	50602.8	100.0

**Coefficient of Utilization**



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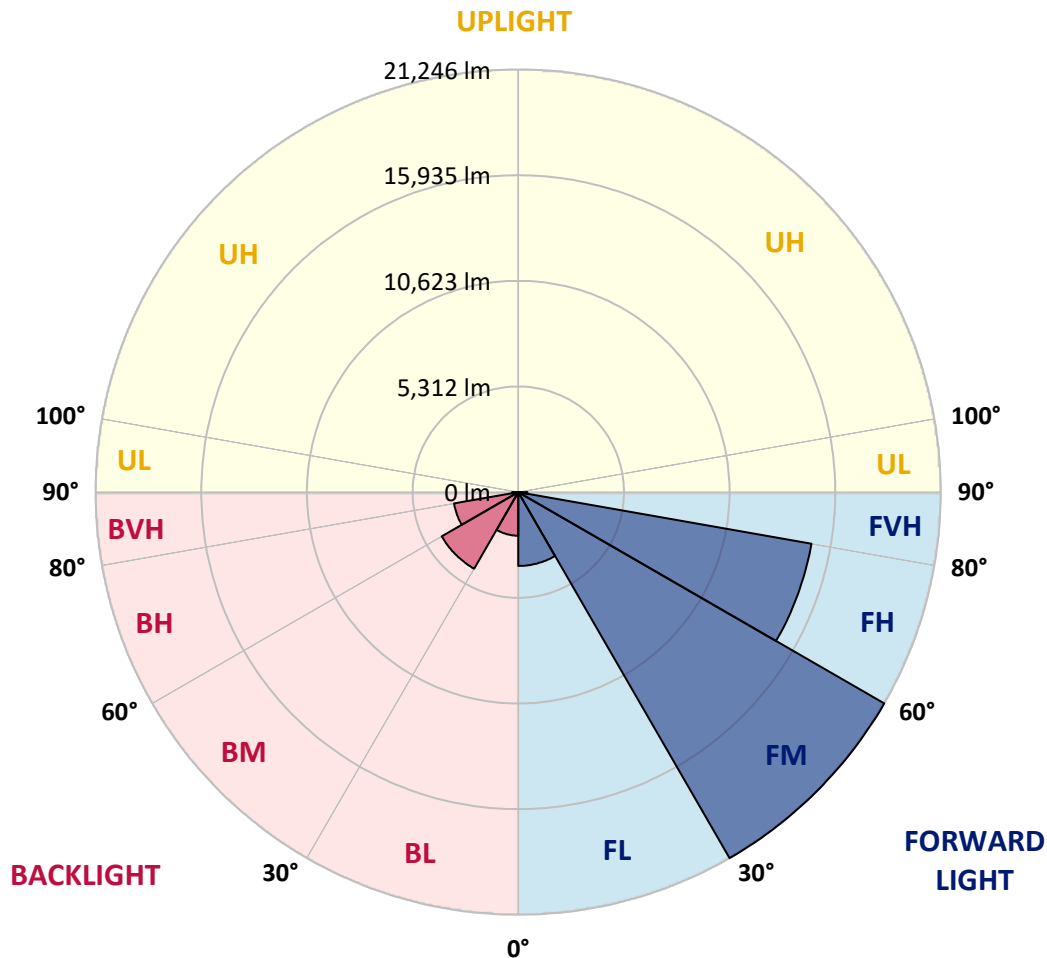
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3709.5	7.3			
FM (30°-60°)	21246.4	42.0			
FH (60°-80°)	14967.2	29.6			G5
FVH (80°-90°)	461.2	0.9			G3/500
BL (0°-30°)	2189.3	4.3	B3/2500		
BM (30°-60°)	4442.6	8.8	B3/5000		
BH (60°-80°)	3278.9	6.5	B4/5000		G4/5000
BVH (80°-90°)	307.7	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	6389.7	6389.7	6389.7	6389.7	6389.7	6389.7	6389.7	6389.7	6389.7	6389.7	6389.7
2.5°	6796.0	6801.6	6801.6	6779.4	6784.9	6801.6	6740.4	6606.8	6606.8	6584.5	6545.6
5°	7213.5	7185.7	7146.7	7152.3	7130.0	7130.0	7063.2	6935.2	6823.9	6779.4	6662.5
7.5°	7269.2	7297.0	7291.4	7358.2	7391.6	7391.6	7425.0	7319.3	7152.3	7046.5	6929.6
10°	7380.5	7308.1	7302.6	7458.4	7508.5	7625.4	7759.0	7703.3	7564.2	7413.9	7258.0
12.5°	7447.3	7491.8	7491.8	7569.7	7686.6	7859.1	8092.9	8198.7	7981.6	7825.8	7586.4
15°	7547.5	7486.2	7664.3	7731.1	7953.8	8076.2	8410.2	8682.9	8538.2	8349.0	7970.5
17.5°	7592.0	7553.0	7653.2	7775.7	8154.1	8337.8	8744.1	9122.6	9000.2	8877.7	8488.1
20°	7820.2	7814.6	7859.1	7959.3	8232.1	8593.9	9100.4	9623.6	9668.1	9445.5	8916.7
22.5°	8376.8	8304.4	8304.4	8265.5	8382.4	8755.3	9439.9	10163.5	10363.8	10102.2	9400.9
25°	8888.9	8989.0	8927.8	8749.7	8705.2	8900.0	9684.8	10736.8	11003.9	10759.0	10057.7
27.5°	9545.6	9579.0	9684.8	9445.5	9139.3	9200.5	9952.0	11059.6	11610.6	11282.2	10430.6
30°	10491.9	10430.6	10408.4	10141.2	9740.4	9657.0	10258.1	11532.7	12406.5	11944.6	10870.3
32.5°	11131.9	11282.2	11276.7	10909.3	10425.1	10241.4	10636.6	11978.0	13258.1	12829.6	11683.0
35°	12401.0	12556.8	12434.4	11894.5	11326.7	10959.4	11182.0	12556.8	14232.2	13898.2	12373.2
37.5°	14020.7	14388.0	14126.4	13130.1	12328.6	11927.9	11939.0	13185.8	15228.5	14955.8	13113.4
40°	15139.4	15634.8	15273.0	14337.9	13486.3	13107.9	12957.6	13931.6	16419.6	16130.2	14271.1
42.5°	16525.4	16937.2	16748.0	15824.1	14827.7	14504.9	14204.4	15178.4	18239.7	18106.1	15757.3
45°	18039.3	18234.1	18172.9	17588.5	16480.8	16369.5	15707.2	16820.4	20382.6	20438.2	17616.3
47.5°	19447.5	19553.3	19670.1	19247.1	18556.9	18651.6	17438.2	18579.2	22464.3	22831.6	19686.8
50°	19809.3	20171.1	20443.8	20727.7	20878.0	21518.0	19347.3	20738.8	24857.6	25570.1	21991.1
52.5°	19441.9	19414.1	20243.4	21134.0	22636.8	23978.2	21946.6	23421.6	26972.7	28380.9	24100.7
55°	17772.1	17716.5	19052.3	20232.3	23165.6	25347.4	25659.1	26995.0	29527.5	31358.7	26956.0
57.5°	14850.0	14504.9	15963.2	17900.2	22019.0	25497.7	29388.3	32299.3	33457.0	35544.3	31314.1
60°	9979.8	9835.1	11232.1	13542.0	17877.9	23365.9	31620.3	38939.5	38995.2	41344.0	38076.8
62.5°	6144.8	6172.7	7068.8	8799.8	12517.9	18523.5	30657.4	44243.9	44255.0	46609.4	43642.8
65°	4018.6	4035.3	4758.9	5716.3	7820.2	12562.4	25353.0	44661.3	47911.9	50099.3	46192.0
66°	3578.9	3584.5	4207.9	4987.1	6478.8	10280.3	22391.9	43576.0	48735.6	50561.3	46158.6
67.5°	3016.8	3089.1	3590.1	4191.2	5053.9	7386.0	17766.6	40436.8	48312.6	49915.6	45112.2
70°	2360.0	2398.9	2794.1	3406.4	3790.4	4274.7	10558.6	32961.7	44221.6	46820.9	41305.1
72.5°	1892.4	1925.8	2226.4	2766.3	3078.0	2816.4	5749.6	23917.0	34932.0	37703.9	32488.6
75°	1597.4	1603.0	1747.7	2176.3	2532.5	2115.1	3061.3	15350.9	22414.2	23705.5	19903.9
77.5°	1291.3	1313.6	1413.8	1658.7	2037.1	1664.2	1825.6	8599.4	11254.4	11349.0	9200.5
80°	1052.0	1063.1	1124.3	1207.8	1552.9	1230.1	1235.6	4196.7	4825.7	4714.4	3740.3
82.5°	829.3	840.5	912.8	896.1	1141.0	879.4	768.1	2020.4	2220.8	2176.3	1719.9
85°	467.5	467.5	718.0	718.0	723.6	556.6	467.5	951.8	1174.4	1096.5	807.1
87.5°	150.3	155.8	217.1	228.2	361.8	250.5	228.2	356.2	556.6	489.8	289.4
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°	6389.7	6389.7	6389.7	6389.7	6389.7	6389.7	6389.7	6389.7	6389.7	6389.7	6389.7
2.5°	6523.3	6434.3	6395.3	6267.3	6233.9	6150.4	6111.4	6061.3	6044.6	5972.3	6039.1
5°	6573.4	6545.6	6389.7	6228.3	6105.9	6050.2	5966.7	5855.4	5844.3	5744.1	5732.9
7.5°	6784.9	6690.3	6417.6	6245.0	6000.1	5861.0	5677.3	5621.6	5549.3	5515.9	5588.2
10°	7113.3	6874.0	6467.7	6033.5	5732.9	5566.0	5432.4	5393.4	5399.0	5376.7	5343.3
12.5°	7347.1	7118.9	6384.2	5855.4	5465.8	5304.4	5293.2	5332.2	5393.4	5365.6	5404.6
15°	7681.0	7252.5	6322.9	5560.4	5248.7	5204.2	5198.6	5315.5	5309.9	5309.9	5304.4
17.5°	7992.7	7386.0	6100.3	5304.4	5020.5	5053.9	5092.9	5087.3	5143.0	5165.2	5204.2
20°	8387.9	7541.9	5788.6	5048.3	4848.0	4836.8	4831.3	4836.8	4892.5	4925.9	4898.1
22.5°	8733.0	7575.3	5527.0	4803.4	4642.0	4597.5	4525.1	4597.5	4569.7	4580.8	4614.2
25°	9033.6	7580.9	5154.1	4619.8	4436.1	4335.9	4280.2	4274.7	4224.6	4219.0	4219.0
27.5°	9284.0	7391.6	4825.7	4363.7	4191.2	4096.6	4091.0	4029.8	3901.7	3818.3	3829.4
30°	9478.8	7246.9	4597.5	4141.1	3974.1	3957.4	3907.3	3768.2	3601.2	3495.4	3495.4
32.5°	9823.9	6957.5	4285.8	3912.9	3829.4	3807.1	3690.2	3567.8	3411.9	3311.8	3295.1
35°	10080.0	6690.3	4079.9	3718.1	3679.1	3634.6	3534.4	3400.8	3356.3	3334.0	3350.7
37.5°	10369.4	6389.7	3829.4	3551.1	3590.1	3506.6	3389.7	3328.5	3484.3	3445.3	3462.0
40°	10831.4	6178.2	3584.5	3450.9	3489.9	3395.2	3245.0	3222.7	3417.5	3278.4	3245.0
42.5°	11677.4	6172.7	3434.2	3300.6	3328.5	3256.1	3122.5	3111.4	3189.3	3022.3	2972.2
45°	12729.4	6367.5	3322.9	3189.3	3167.0	3155.9	3111.4	3061.3	2994.5	2777.4	2721.8
47.5°	13987.3	6684.7	3300.6	3022.3	3050.2	3144.8	3089.1	2961.1	2788.6	2649.4	2621.6
50°	15512.4	7341.5	3245.0	2899.9	2950.0	3100.2	3055.7	2877.6	2721.8	2632.7	2616.0
52.5°	17198.8	8170.8	3172.6	2710.6	2821.9	3061.3	3083.5	2916.6	2688.4	2610.4	2599.3
55°	19185.9	9395.4	3089.1	2504.7	2671.7	3022.3	3083.5	2805.2	2643.8	2643.8	2632.7
57.5°	23109.9	11599.5	2916.6	2315.4	2538.1	2950.0	2994.5	2810.8	2649.4	2649.4	2627.1
60°	28865.1	15039.3	2588.2	2170.7	2410.1	2849.8	2927.7	2727.3	2588.2	2621.6	2616.0
62.5°	33368.0	16085.7	2309.9	2031.6	2282.0	2666.1	2838.6	2638.3	2515.8	2638.3	2649.4
65°	34330.9	15028.1	2026.0	1881.3	2103.9	2488.0	2710.6	2510.3	2410.1	2649.4	2660.5
66°	33985.8	14204.4	1925.8	1836.8	2026.0	2398.9	2632.7	2465.7	2354.4	2638.3	2643.8
67.5°	32449.6	12968.7	1814.5	1742.1	1920.3	2270.9	2543.6	2404.5	2265.3	2604.9	2554.8
70°	29110.0	10998.4	1625.3	1575.2	1770.0	2059.4	2337.7	2248.7	2126.2	2398.9	2309.9
72.5°	22419.7	8788.7	1424.9	1430.5	1597.4	1842.3	2131.8	2070.5	1964.8	2103.9	2048.3
75°	13653.3	5616.1	1241.2	1252.3	1391.5	1636.4	1937.0	1892.4	1764.4	1842.3	1814.5
77.5°	6050.2	2783.0	1046.4	1068.7	1180.0	1441.6	1686.5	1614.1	1480.5	1497.2	1486.1
80°	2348.8	1319.1	851.6	879.4	951.8	1152.2	1397.1	1330.3	1213.4	1191.1	1180.0
82.5°	1129.9	734.7	656.8	667.9	695.7	918.4	1202.2	1118.8	962.9	862.7	862.7
85°	567.7	456.4	462.0	423.0	462.0	623.4	812.6	679.0	562.2	500.9	512.1
87.5°	228.2	228.2	228.2	194.8	205.9	295.0	378.5	256.0	233.8	139.1	139.1
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)