

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: P476598

Luminaire Tested: **IFLD-S-SA3C-740-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476598
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-740-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

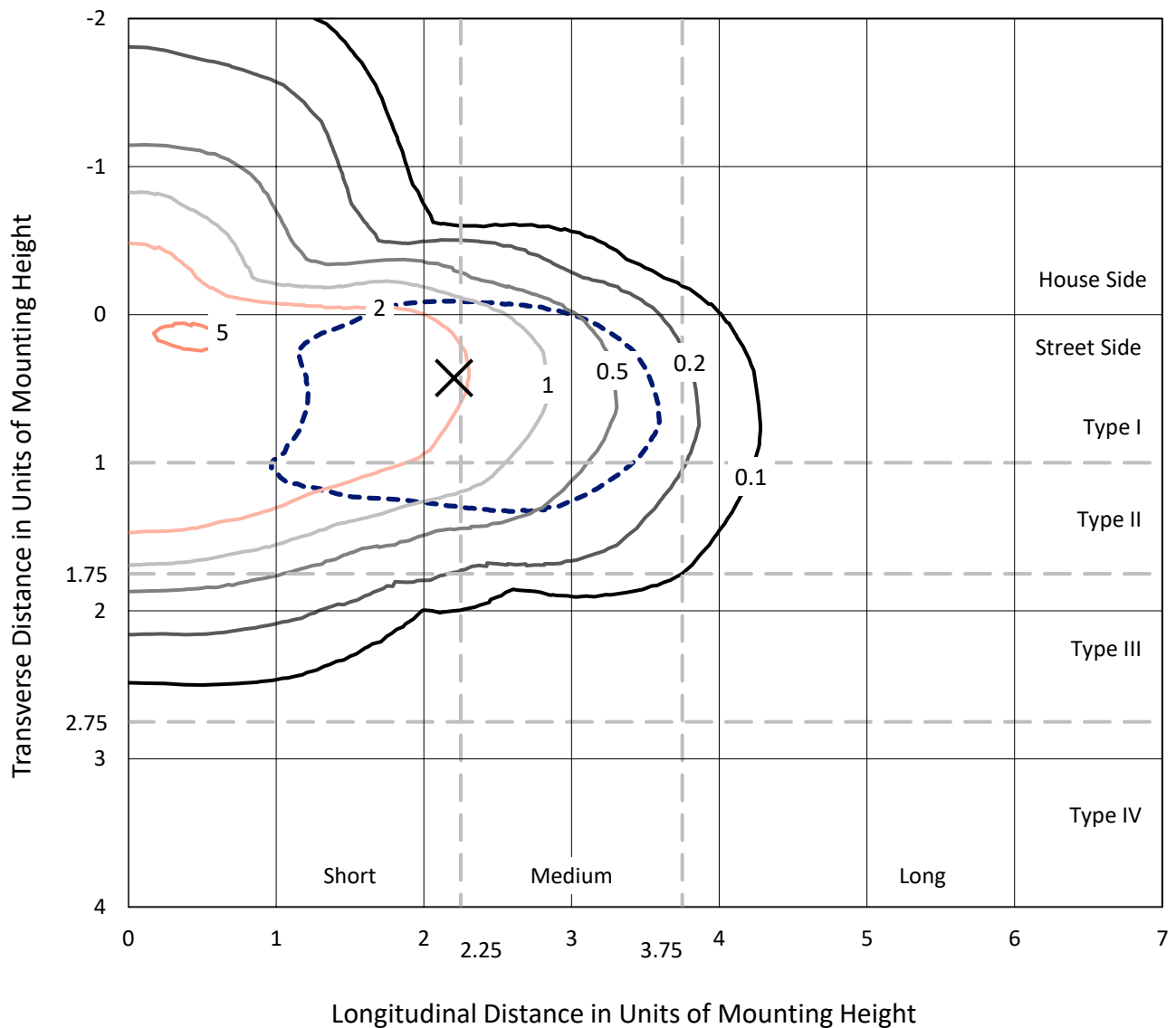
Lumens per Lamp: N/A
Luminaire Lumens: 21156.4 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 160.8
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

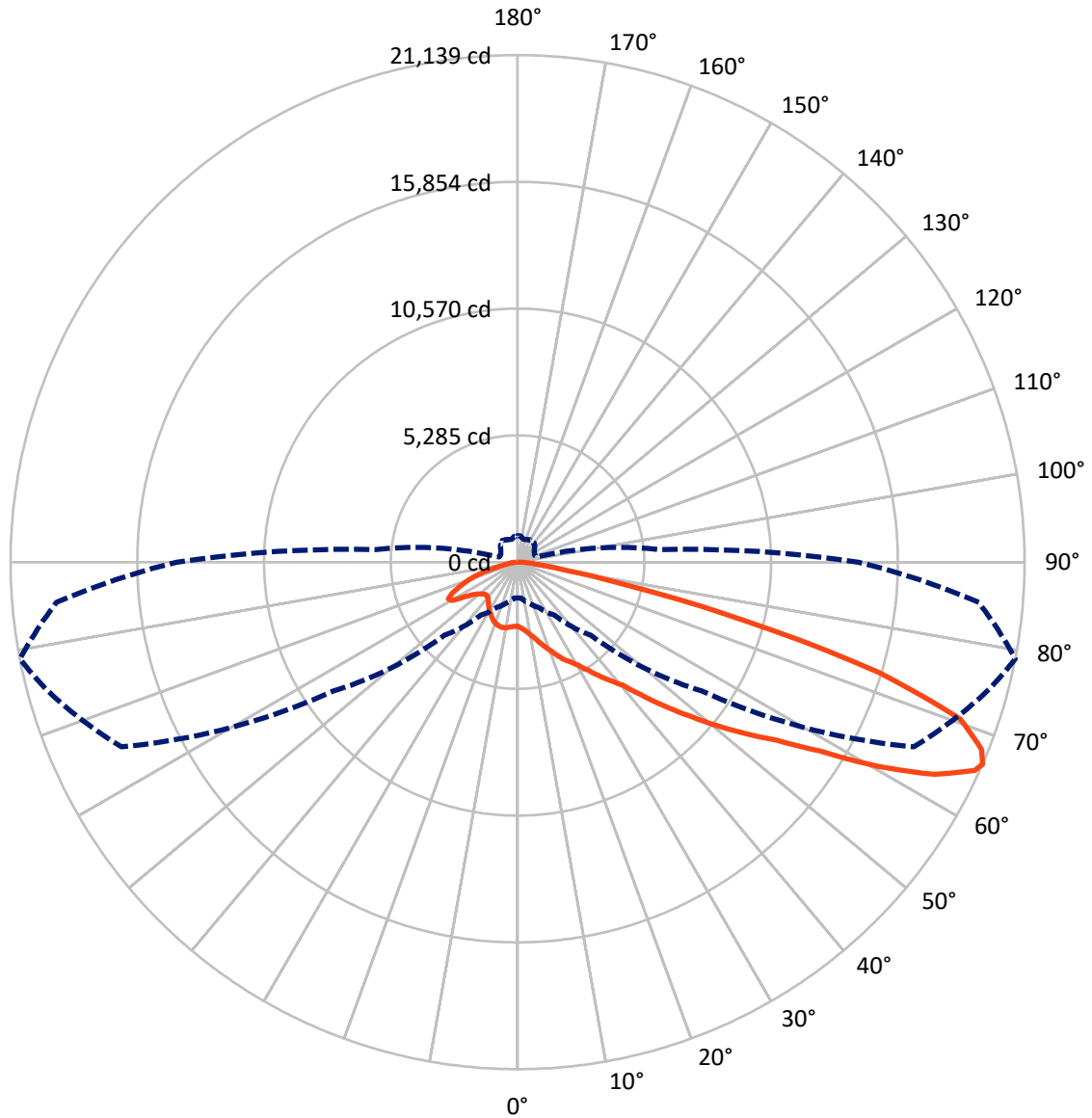
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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
House Side	Lumens	4272.2	0.0	4272.2
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	16884.2	0.0	16884.2
	% Fixture	79.8	0.0	79.8
Total	Lumens	21156.4	0.0	21156.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.7	1.2
10°-20°	811.2	3.8
20°-30°	1392.4	6.6
30°-40°	2150.9	10.2
40°-50°	3445.3	16.3
50°-60°	5144.0	24.3
60°-70°	5285.5	25.0
70°-80°	2343.0	11.1
80°-90°	321.5	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°	21156.4	100.0
0°-180°	21156.4	100.0

Coefficient of Utilization



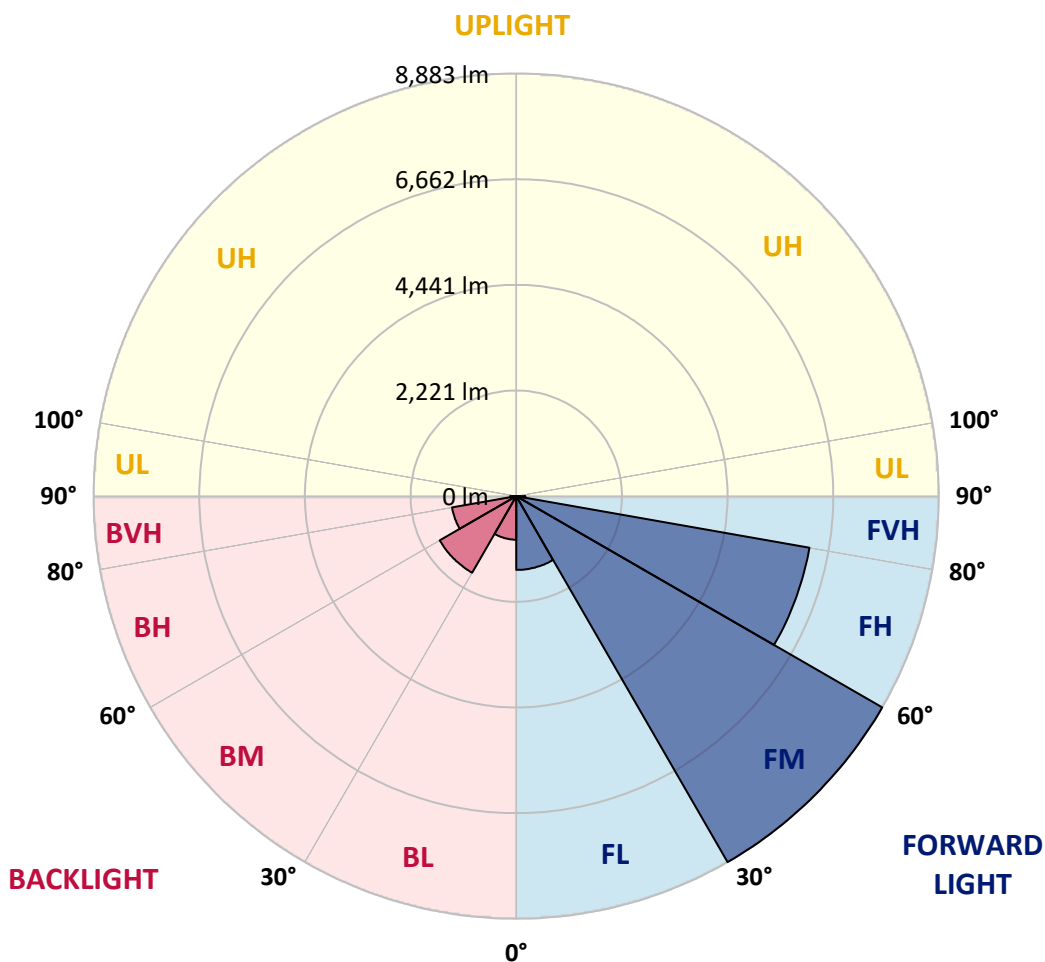
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1550.9	7.3			
FM (30°-60°)	8882.9	42.0			
FH (60°-80°)	6257.6	29.6			G3/7500
FVH (80°-90°)	192.8	0.9			G2/225
BL (0°-30°)	915.3	4.3	B2/1000		
BM (30°-60°)	1857.4	8.8	B2/2500		
BH (60°-80°)	1370.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	128.7	0.6			G2/225
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2671.5	2671.5	2671.5	2671.5	2671.5	2671.5	2671.5	2671.5	2671.5	2671.5	2671.5
2.5°	2841.3	2843.7	2843.7	2834.4	2836.7	2843.7	2818.1	2762.2	2762.2	2752.9	2736.6
5°	3015.9	3004.2	2987.9	2990.3	2981.0	2981.0	2953.0	2899.5	2853.0	2834.4	2785.5
7.5°	3039.1	3050.8	3048.5	3076.4	3090.3	3090.3	3104.3	3060.1	2990.3	2946.1	2897.2
10°	3085.7	3055.4	3053.1	3118.3	3139.2	3188.1	3243.9	3220.7	3162.5	3099.6	3034.5
12.5°	3113.6	3132.2	3132.2	3164.8	3213.7	3285.8	3383.5	3427.8	3337.0	3271.9	3171.8
15°	3155.5	3129.9	3204.4	3232.3	3325.4	3376.6	3516.2	3630.2	3569.7	3490.6	3332.4
17.5°	3174.1	3157.8	3199.7	3250.9	3409.1	3485.9	3655.8	3814.1	3762.9	3711.7	3548.8
20°	3269.5	3267.2	3285.8	3327.7	3441.7	3593.0	3804.7	4023.5	4042.1	3949.0	3728.0
22.5°	3502.2	3472.0	3472.0	3455.7	3504.6	3660.5	3946.7	4249.2	4333.0	4223.6	3930.4
25°	3716.3	3758.2	3732.6	3658.1	3639.5	3721.0	4049.1	4488.9	4600.6	4498.2	4205.0
27.5°	3990.9	4004.9	4049.1	3949.0	3821.0	3846.6	4160.8	4623.9	4854.3	4717.0	4360.9
30°	4386.5	4360.9	4351.6	4239.9	4072.4	4037.5	4288.8	4821.7	5187.0	4993.9	4544.8
32.5°	4654.1	4717.0	4714.6	4561.0	4358.6	4281.8	4447.0	5007.8	5543.1	5363.9	4884.5
35°	5184.7	5249.9	5198.7	4972.9	4735.6	4582.0	4675.1	5249.9	5950.3	5810.7	5173.1
37.5°	5861.9	6015.5	5906.1	5489.5	5154.4	4986.9	4991.6	5512.8	6366.8	6252.8	5482.6
40°	6329.6	6536.7	6385.5	5994.5	5638.5	5480.2	5417.4	5824.6	6864.8	6743.8	5966.6
42.5°	6909.1	7081.3	7002.1	6615.8	6199.3	6064.3	5938.7	6345.9	7625.8	7569.9	6587.9
45°	7542.0	7623.5	7597.9	7353.5	6890.4	6843.9	6567.0	7032.4	8521.7	8545.0	7365.2
47.5°	8130.8	8175.0	8223.8	8047.0	7758.4	7798.0	7290.7	7767.7	9392.0	9545.6	8230.8
50°	8282.0	8433.3	8547.3	8666.0	8728.8	8996.4	8088.9	8670.6	10392.7	10690.5	9194.2
52.5°	8128.4	8116.8	8463.5	8835.9	9464.2	10025.0	9175.6	9792.3	11276.9	11865.7	10076.2
55°	7430.3	7407.0	7965.5	8458.9	9685.2	10597.4	10727.8	11286.3	12345.1	13110.7	11270.0
57.5°	6208.6	6064.3	6674.0	7483.8	9205.9	10660.3	12286.9	13503.9	13988.0	14860.6	13092.1
60°	4172.4	4111.9	4696.0	5661.7	7474.5	9769.0	13220.0	16280.1	16303.4	17285.4	15919.4
62.5°	2569.1	2580.7	2955.4	3679.1	5233.6	7744.5	12817.5	18497.8	18502.5	19486.8	18246.5
65°	1680.1	1687.1	1989.6	2389.9	3269.5	5252.2	10599.8	18672.4	20031.4	20945.9	19312.3
66°	1496.3	1498.6	1759.3	2085.0	2708.7	4298.1	9361.8	18218.6	20375.8	21139.0	19298.3
67.5°	1261.3	1291.5	1501.0	1752.3	2113.0	3088.0	7428.0	16906.1	20198.9	20869.1	18860.8
70°	986.7	1003.0	1168.2	1424.2	1584.7	1787.2	4414.4	13780.9	18488.5	19575.3	17269.1
72.5°	791.2	805.2	930.8	1156.6	1286.9	1177.5	2403.9	9999.4	14604.6	15763.5	13583.1
75°	667.9	670.2	730.7	909.9	1058.8	884.3	1279.9	6418.0	9371.1	9911.0	8321.6
77.5°	539.9	549.2	591.1	693.5	851.7	695.8	763.3	3595.3	4705.3	4744.9	3846.6
80°	439.8	444.5	470.1	505.0	649.3	514.3	516.6	1754.6	2017.6	1971.0	1563.8
82.5°	346.7	351.4	381.6	374.7	477.0	367.7	321.1	844.7	928.5	909.9	719.1
85°	195.5	195.5	300.2	300.2	302.5	232.7	195.5	397.9	491.0	458.4	337.4
87.5°	62.8	65.2	90.8	95.4	151.3	104.7	95.4	148.9	232.7	204.8	121.0
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°	2671.5	2671.5	2671.5	2671.5	2671.5	2671.5	2671.5	2671.5	2671.5	2671.5	2671.5
2.5°	2727.3	2690.1	2673.8	2620.3	2606.3	2571.4	2555.1	2534.2	2527.2	2496.9	2524.9
5°	2748.3	2736.6	2671.5	2604.0	2552.8	2529.5	2494.6	2448.1	2443.4	2401.5	2396.9
7.5°	2836.7	2797.1	2683.1	2611.0	2508.6	2450.4	2373.6	2350.3	2320.1	2306.1	2336.4
10°	2974.0	2873.9	2704.0	2522.5	2396.9	2327.1	2271.2	2254.9	2257.3	2247.9	2234.0
12.5°	3071.7	2976.3	2669.1	2448.1	2285.2	2217.7	2213.0	2229.3	2254.9	2243.3	2259.6
15°	3211.3	3032.2	2643.5	2324.7	2194.4	2175.8	2173.5	2222.3	2220.0	2220.0	2217.7
17.5°	3341.7	3088.0	2550.5	2217.7	2099.0	2113.0	2129.3	2126.9	2150.2	2159.5	2175.8
20°	3506.9	3153.2	2420.1	2110.6	2026.9	2022.2	2019.9	2022.2	2045.5	2059.5	2047.8
22.5°	3651.2	3167.1	2310.8	2008.3	1940.8	1922.2	1891.9	1922.2	1910.5	1915.2	1929.1
25°	3776.8	3169.5	2154.9	1931.5	1854.7	1812.8	1789.5	1787.2	1766.2	1763.9	1763.9
27.5°	3881.5	3090.3	2017.6	1824.4	1752.3	1712.7	1710.4	1684.8	1631.3	1596.4	1601.0
30°	3963.0	3029.8	1922.2	1731.3	1661.5	1654.5	1633.6	1575.4	1505.6	1461.4	1461.4
32.5°	4107.3	2908.8	1791.8	1635.9	1601.0	1591.7	1542.8	1491.6	1426.5	1384.6	1377.6
35°	4214.3	2797.1	1705.7	1554.5	1538.2	1519.6	1477.7	1421.8	1403.2	1393.9	1400.9
37.5°	4335.3	2671.5	1601.0	1484.7	1501.0	1466.0	1417.2	1391.6	1456.7	1440.5	1447.4
40°	4528.5	2583.0	1498.6	1442.8	1459.1	1419.5	1356.7	1347.4	1428.8	1370.6	1356.7
42.5°	4882.2	2580.7	1435.8	1379.9	1391.6	1361.3	1305.5	1300.8	1333.4	1263.6	1242.7
45°	5322.0	2662.2	1389.3	1333.4	1324.1	1319.4	1300.8	1279.9	1252.0	1161.2	1137.9
47.5°	5847.9	2794.8	1379.9	1263.6	1275.2	1314.8	1291.5	1238.0	1165.9	1107.7	1096.0
50°	6485.5	3069.4	1356.7	1212.4	1233.3	1296.2	1277.6	1203.1	1137.9	1100.7	1093.7
52.5°	7190.6	3416.1	1326.4	1133.3	1179.8	1279.9	1289.2	1219.4	1124.0	1091.4	1086.7
55°	8021.4	3928.1	1291.5	1047.2	1117.0	1263.6	1289.2	1172.8	1105.4	1105.4	1100.7
57.5°	9662.0	4849.6	1219.4	968.1	1061.1	1233.3	1252.0	1175.2	1107.7	1107.7	1098.4
60°	12068.1	6287.7	1082.1	907.6	1007.6	1191.5	1224.0	1140.3	1082.1	1096.0	1093.7
62.5°	13950.7	6725.2	965.7	849.4	954.1	1114.7	1186.8	1103.0	1051.8	1103.0	1107.7
65°	14353.3	6283.1	847.1	786.5	879.6	1040.2	1133.3	1049.5	1007.6	1107.7	1112.3
66°	14209.0	5938.7	805.2	767.9	847.1	1003.0	1100.7	1030.9	984.3	1103.0	1105.4
67.5°	13566.8	5422.1	758.6	728.4	802.8	949.4	1063.5	1005.3	947.1	1089.1	1068.1
70°	12170.5	4598.3	679.5	658.6	740.0	861.0	977.4	940.1	888.9	1003.0	965.7
72.5°	9373.4	3674.4	595.7	598.1	667.9	770.3	891.3	865.7	821.5	879.6	856.4
75°	5708.3	2348.0	518.9	523.6	581.8	684.2	809.8	791.2	737.7	770.3	758.6
77.5°	2529.5	1163.5	437.5	446.8	493.3	602.7	705.1	674.8	619.0	626.0	621.3
80°	982.0	551.5	356.0	367.7	397.9	481.7	584.1	556.2	507.3	498.0	493.3
82.5°	472.4	307.2	274.6	279.2	290.9	384.0	502.6	467.7	402.6	360.7	360.7
85°	237.4	190.8	193.1	176.9	193.1	260.6	339.8	283.9	235.0	209.4	214.1
87.5°	95.4	95.4	95.4	81.4	86.1	123.3	158.2	107.0	97.7	58.2	58.2
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)