

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: P478719

Luminaire Tested: **IFLD-S-SA6C-830-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478719  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-830-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

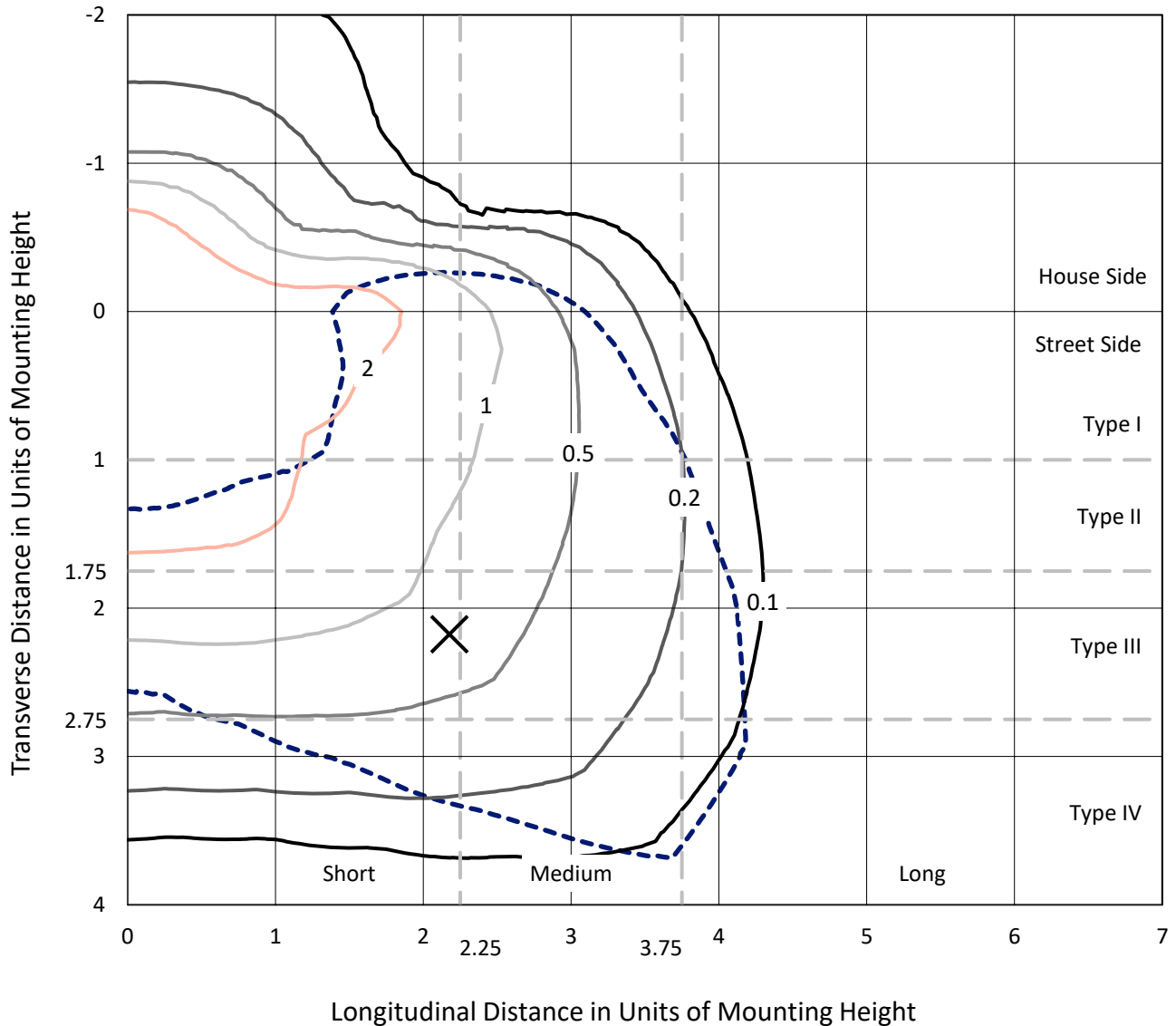
Lumens per Lamp: N/A  
Luminaire Lumens: 33373 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 321.5  
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

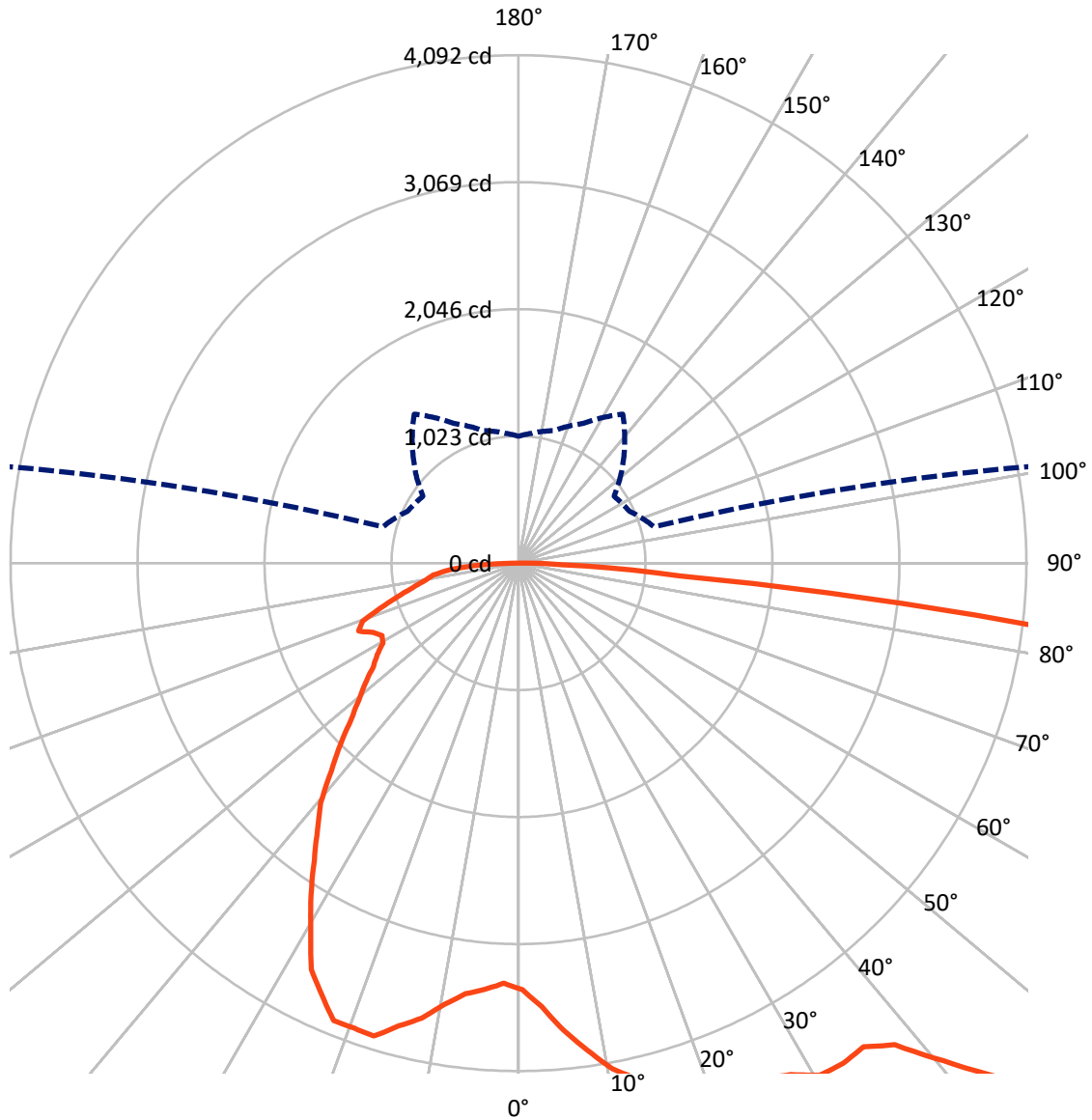
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 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
<b>House Side</b>	Lumens	7429.0	0.0	7429.0
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	25944.0	0.0	25944.0
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	33373.0	0.0	33373.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.7	1.1
10°-20°	1170.1	3.5
20°-30°	1975.9	5.9
30°-40°	2734.3	8.2
40°-50°	3911.2	11.7
50°-60°	6308.4	18.9
60°-70°	9303.9	27.9
70°-80°	6756.2	20.2
80°-90°	861.3	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°	33373.0	100.0
0°-180°	33373.0	100.0

**Coefficient of Utilization**

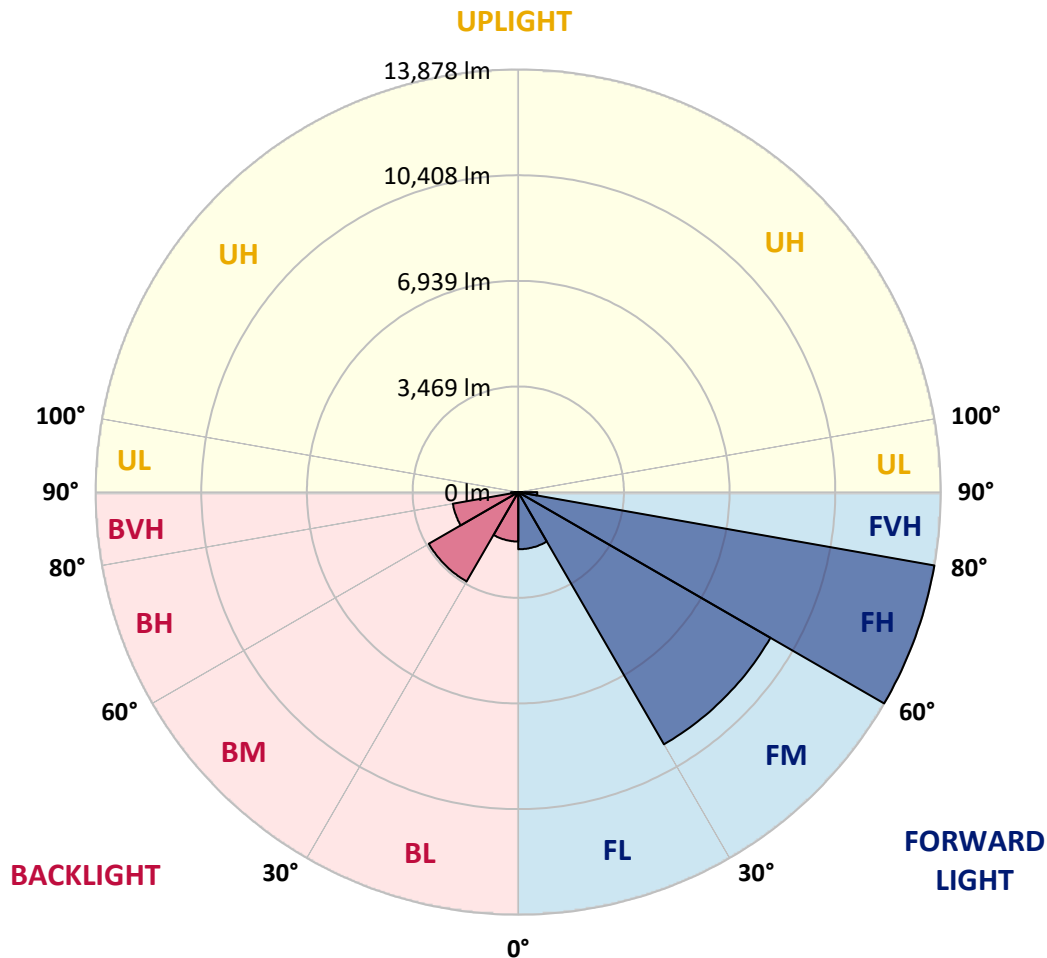


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1875.6	5.6			
FM (30°-60°)	9563.5	28.7			
FH (60°-80°)	13878.0	41.6			G5
FVH (80°-90°)	626.9	1.9			G4/750
BL (0°-30°)	1622.1	4.9	B3/2500		
BM (30°-60°)	3390.4	10.2	B3/5000		
BH (60°-80°)	2182.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	234.4	0.7			G3/500
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°	3436.8	3436.8	3436.8	3436.8	3436.8	3436.8	3436.8	3436.8	3436.8	3436.8	3436.8
2.5°	3620.4	3641.9	3620.4	3616.8	3580.8	3555.6	3577.2	3544.8	3508.8	3494.4	3462.0
5°	3951.4	3955.0	3915.4	3919.0	3843.5	3764.3	3778.7	3681.5	3577.2	3537.6	3472.8
7.5°	4289.7	4250.1	4192.6	4174.6	4055.8	3969.4	3958.6	3872.3	3710.3	3620.4	3530.4
10°	4509.2	4523.6	4430.1	4350.9	4250.1	4145.8	4142.2	3980.2	3886.7	3753.5	3638.3
12.5°	4703.6	4707.2	4628.0	4502.0	4376.1	4246.5	4264.5	4192.6	4034.2	3908.3	3793.1
15°	4854.7	4833.1	4746.8	4631.6	4498.4	4397.7	4386.9	4325.7	4192.6	4088.2	3897.5
17.5°	4897.9	4887.1	4800.7	4678.4	4548.8	4473.3	4502.0	4401.3	4347.3	4253.7	4070.2
20°	4815.1	4789.9	4775.6	4638.8	4545.2	4538.0	4512.8	4534.4	4444.5	4358.1	4224.9
22.5°	4664.0	4653.2	4646.0	4538.0	4494.8	4527.2	4570.4	4602.8	4588.4	4505.6	4354.5
25°	4509.2	4559.6	4512.8	4462.5	4523.6	4606.4	4595.6	4700.0	4700.0	4674.8	4548.8
27.5°	4617.2	4584.8	4548.8	4523.6	4545.2	4674.8	4667.6	4793.5	4840.3	4793.5	4649.6
30°	4887.1	4854.7	4750.4	4638.8	4610.0	4750.4	4786.3	4897.9	4919.5	4804.3	4682.0
32.5°	5394.5	5376.5	5211.0	4883.5	4707.2	4786.3	4804.3	4930.3	4912.3	4840.3	4789.9
35°	6146.7	6085.5	5855.2	5301.0	4912.3	4833.1	4786.3	4887.1	4955.5	4919.5	4872.7
37.5°	6970.8	6902.4	6618.1	5916.4	5283.0	4959.1	4923.1	5005.9	5085.0	5067.1	4969.9
40°	7758.9	7758.9	7503.4	6686.5	5833.6	5265.0	5272.2	5178.6	5250.6	5218.2	5236.2
42.5°	8536.3	8507.5	8403.1	7589.8	6423.8	5776.0	5660.8	5426.9	5556.5	5545.7	5570.9
45°	9324.4	9302.8	9274.0	8431.9	7269.5	6467.0	6405.8	5984.7	6103.5	6053.1	6161.1
47.5°	9954.2	9979.4	9979.4	9371.2	8172.8	7388.3	7298.3	6632.5	6859.2	6884.4	6909.6
50°	10490.4	10501.2	10490.4	10267.3	9180.4	8442.7	8259.1	7582.6	7809.3	8007.2	8237.6
52.5°	11231.7	11246.1	11195.7	11109.4	10548.0	9551.1	9346.0	8593.8	9058.1	9266.8	9680.7
55°	12145.8	12037.8	11944.3	12009.1	11861.5	10771.1	10558.8	9637.5	10335.6	10612.7	11440.5
57.5°	12315.0	12408.5	12646.0	13160.7	13373.0	11958.7	11836.3	10918.6	11778.7	12019.9	13401.8
60°	12912.3	12757.6	13340.6	14456.2	14693.7	13506.1	13380.2	12322.1	13214.6	13466.6	15212.0
62.5°	13304.6	13297.4	14161.1	15485.5	16025.3	15111.2	14855.7	14146.7	14765.7	15010.4	17184.1
65°	13189.4	13293.8	14826.9	16090.0	17137.3	16935.8	16788.2	15715.8	16532.7	16511.1	18468.8
67.5°	12138.6	12433.7	14405.8	16525.5	18792.7	19159.8	19113.0	17921.8	17968.6	17511.6	19041.0
70°	10681.1	10580.3	12624.4	16072.1	19620.4	21797.7	21786.9	19562.8	19260.6	17731.1	17400.0
72°	8205.2	8093.6	9774.2	13801.2	19185.0	22852.1	23176.0	20700.1	19246.2	16820.6	14373.4
72.5°	7449.4	7352.3	9025.7	12991.5	18702.7	23125.6	22974.5	20743.2	19095.0	16392.3	13427.0
75°	3429.6	3318.1	4509.2	7953.3	14589.4	20491.3	21006.0	19411.7	16676.6	13049.1	8043.2
77.5°	1022.0	989.7	1450.3	3210.1	8478.7	15096.8	15294.7	14646.9	11642.0	7147.1	2983.4
80°	568.6	572.2	748.5	1202.0	3728.3	8727.0	9439.5	9047.3	5711.2	2360.8	993.3
82.5°	316.7	334.7	467.8	712.6	1713.0	4005.4	4311.3	4156.6	2065.7	1108.4	543.4
85°	165.5	172.7	244.7	381.5	971.7	1266.8	1302.8	1396.3	1072.4	755.7	291.5
87.5°	64.8	64.8	90.0	158.3	359.9	392.3	352.7	428.3	615.4	489.4	144.0
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°	3436.8	3436.8	3436.8	3436.8	3436.8	3436.8	3436.8	3436.8	3436.8	3436.8	3436.8
2.5°	3490.8	3462.0	3458.4	3411.6	3426.0	3386.4	3390.0	3382.8	3386.4	3379.2	3361.2
5°	3472.8	3451.2	3390.0	3429.6	3393.6	3444.0	3483.6	3469.2	3480.0	3476.4	3480.0
7.5°	3498.0	3469.2	3462.0	3440.4	3472.8	3494.4	3526.8	3616.8	3609.6	3620.4	3641.9
10°	3573.6	3541.2	3519.6	3552.0	3534.0	3602.4	3638.3	3685.1	3767.9	3771.5	3728.3
12.5°	3721.1	3699.5	3656.3	3663.5	3724.7	3746.3	3767.9	3796.7	3850.7	3839.9	3879.5
15°	3890.3	3843.5	3818.3	3811.1	3825.5	3850.7	3847.1	3875.9	3904.7	3929.8	3919.0
17.5°	4012.6	3951.4	3958.6	3994.6	3991.0	3983.8	3937.0	3922.6	3937.0	3951.4	3944.2
20°	4138.6	4145.8	4091.8	4059.4	4045.0	3973.0	3937.0	3893.9	3850.7	3872.3	3904.7
22.5°	4296.9	4264.5	4185.4	4088.2	4016.2	3973.0	3861.5	3785.9	3785.9	3807.5	3796.7
25°	4476.9	4408.5	4271.7	4095.4	4005.4	3821.9	3742.7	3731.9	3703.1	3735.5	3749.9
27.5°	4617.2	4556.0	4368.9	4070.2	3821.9	3674.3	3627.5	3613.2	3659.9	3663.5	3721.1
30°	4674.8	4656.8	4383.3	4005.4	3634.7	3397.2	3368.4	3433.2	3483.6	3559.2	3562.8
32.5°	4750.4	4757.6	4404.9	3854.3	3390.0	3152.5	3109.3	3188.5	3332.5	3393.6	3440.4
35°	4876.3	4912.3	4386.9	3667.1	3130.9	2904.2	2897.0	2918.6	3058.9	3166.9	3228.1
37.5°	5095.8	5088.6	4383.3	3444.0	2925.8	2688.3	2630.7	2637.9	2731.5	2821.4	2810.6
40°	5390.9	5362.1	4372.5	3152.5	2659.5	2504.7	2407.6	2371.6	2364.4	2339.2	2346.4
42.5°	5794.0	5736.4	4368.9	2857.4	2418.4	2252.8	2184.4	2090.9	2022.5	1892.9	1900.1
45°	6355.4	6254.6	4275.3	2580.3	2180.8	2044.1	1939.7	1871.4	1723.8	1561.9	1561.9
47.5°	7222.7	6895.2	4278.9	2274.4	1950.5	1839.0	1767.0	1648.2	1489.9	1360.3	1345.9
50°	8500.3	7751.7	4156.6	2033.3	1763.4	1687.8	1612.2	1475.5	1324.3	1234.4	1245.2
52.5°	10148.5	9029.3	4153.0	1817.4	1615.8	1561.9	1479.1	1356.7	1245.2	1187.6	1166.0
55°	12113.4	10720.7	4282.5	1641.0	1464.7	1435.9	1399.9	1299.2	1191.2	1140.8	1137.2
57.5°	14125.1	12372.5	4491.3	1515.1	1335.1	1356.7	1331.5	1252.4	1166.0	1108.4	1101.2
60°	15913.7	13682.5	4070.2	1363.9	1220.0	1266.8	1302.8	1234.4	1187.6	1184.0	1158.8
62.5°	17263.2	14243.9	3094.9	1248.8	1158.8	1245.2	1342.3	1385.5	1363.9	1392.7	1396.3
65°	17756.3	13905.6	2130.5	1187.6	1112.0	1295.6	1511.5	1497.1	1371.1	1317.1	1345.9
67.5°	17065.3	12534.5	1579.9	1115.6	1079.6	1399.9	1608.6	1428.7	1238.0	1230.8	1209.2
70°	14675.7	10623.5	1288.4	1040.0	1025.6	1342.3	1565.5	1324.3	1166.0	1119.2	1097.6
72°	11692.4	8273.5	1130.0	986.1	939.3	1198.4	1464.7	1241.6	1104.8	1047.2	1022.0
72.5°	10673.9	7669.0	1108.4	960.9	921.3	1166.0	1414.3	1216.4	1090.4	1040.0	1000.5
75°	5855.2	3926.2	975.3	881.7	777.3	1007.7	1309.9	1140.8	1029.2	957.3	950.1
77.5°	2177.2	1522.3	842.1	780.9	673.0	870.9	1191.2	1083.2	935.7	845.7	827.7
80°	834.9	802.5	687.4	658.6	565.0	762.9	1097.6	971.7	795.3	705.4	676.6
82.5°	507.4	467.8	521.8	514.6	431.9	694.6	1032.8	910.5	705.4	572.2	554.2
85°	277.1	277.1	363.5	349.1	302.3	554.2	780.9	604.6	446.2	367.1	374.3
87.5°	122.4	144.0	194.3	183.5	165.5	313.1	381.5	320.3	223.1	151.1	161.9
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)