

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: P483804

Luminaire Tested: **IFLD-L-SA8C-830-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483804  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-830-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

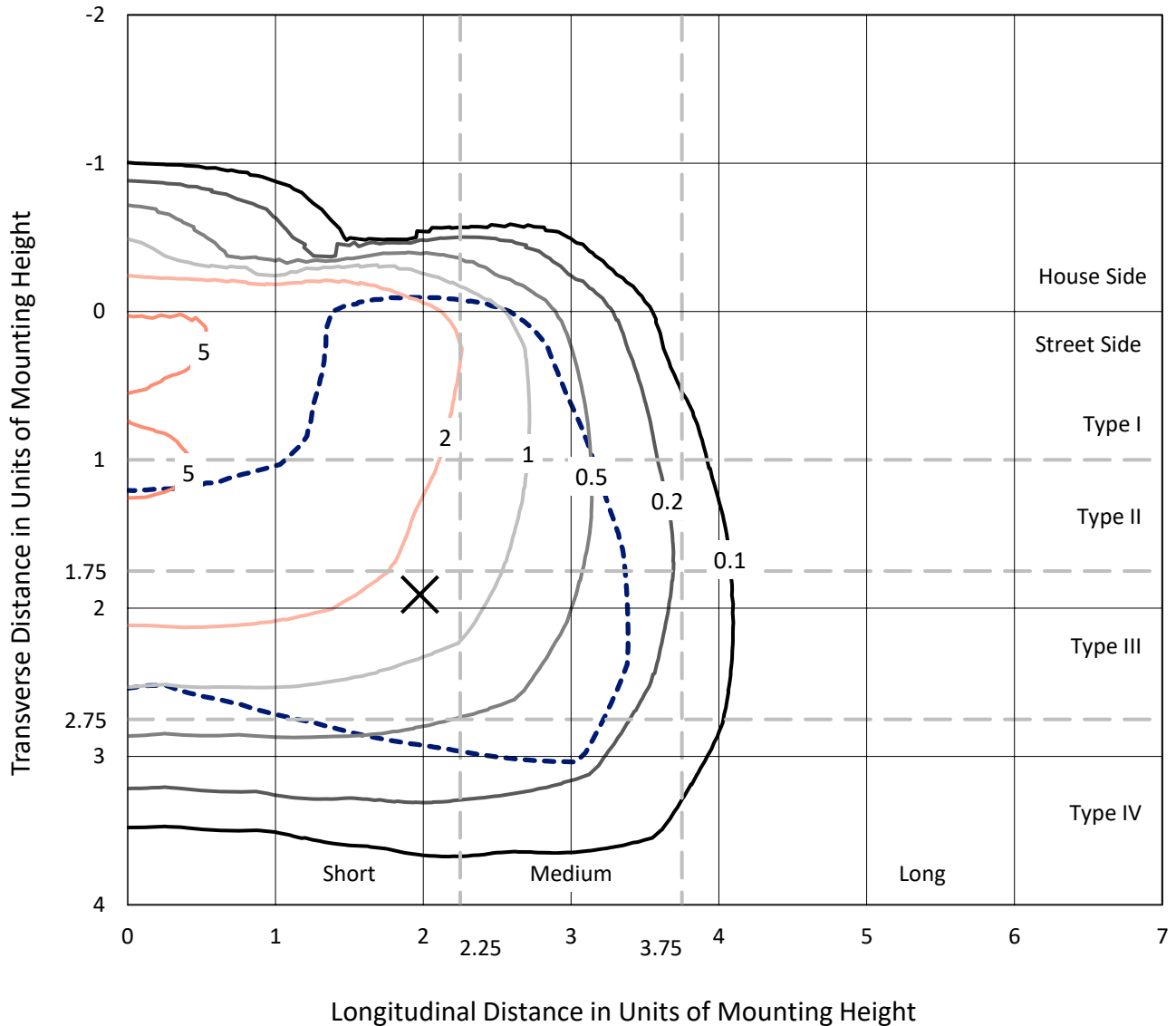
Lumens per Lamp: N/A  
Luminaire Lumens: 29703.5 lumens  
Efficiency: N/A  
Efficacy: 70.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

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

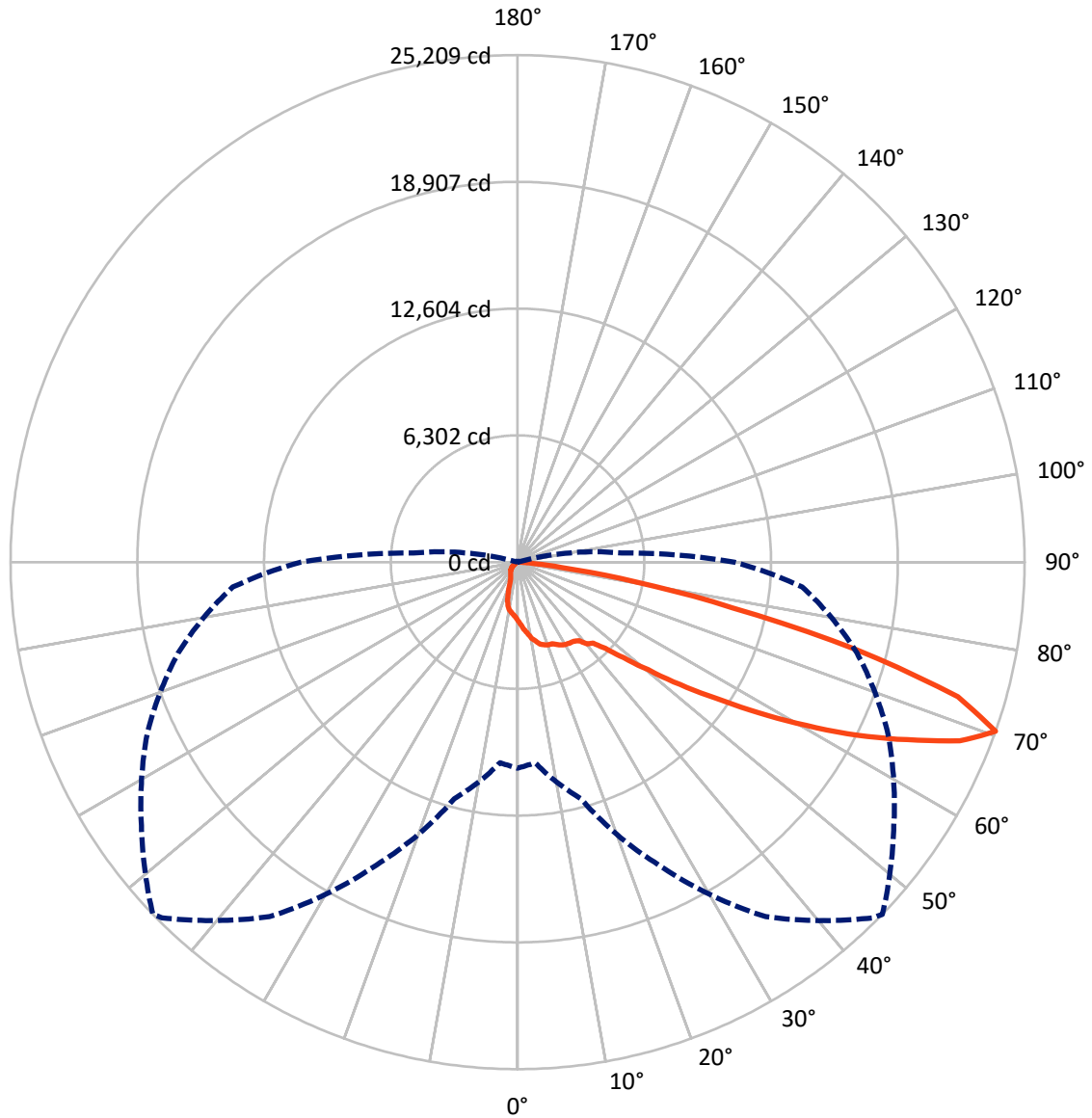
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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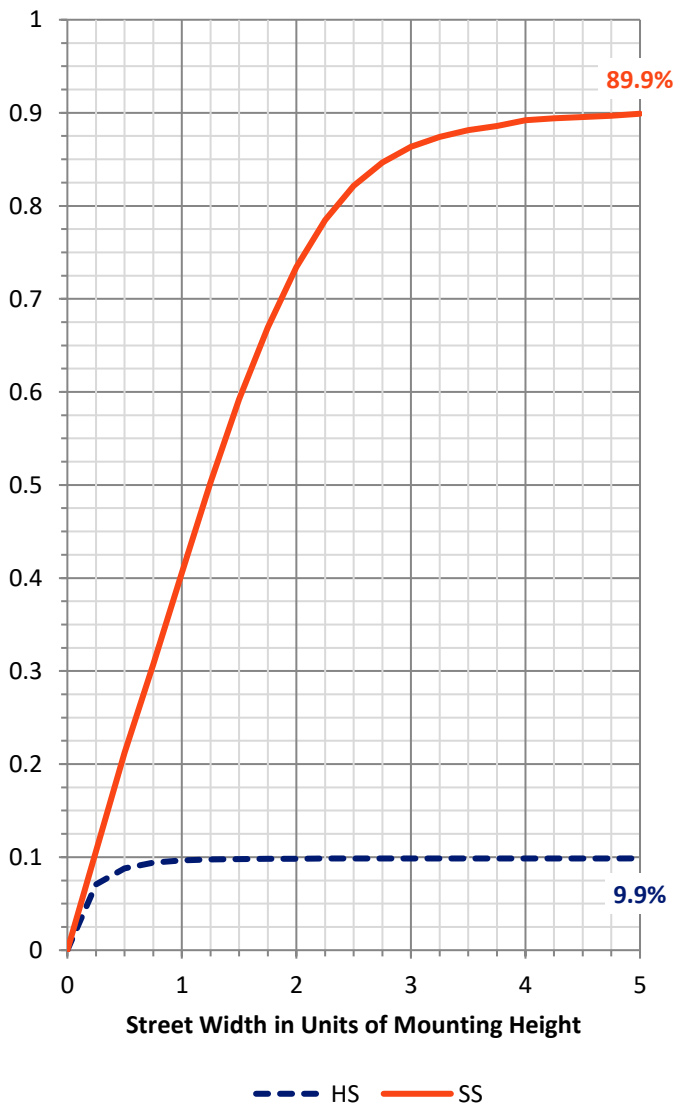
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2955.6	0.0	2955.6
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	26747.9	0.0	26747.9
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	29703.5	0.0	29703.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.7	1.0
10°-20°	878.0	3.0
20°-30°	1406.4	4.7
30°-40°	2007.5	6.8
40°-50°	3466.5	11.7
50°-60°	6636.8	22.3
60°-70°	9828.1	33.1
70°-80°	4867.7	16.4
80°-90°	321.7	1.1
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°	29703.5	100.0
0°-180°	29703.5	100.0

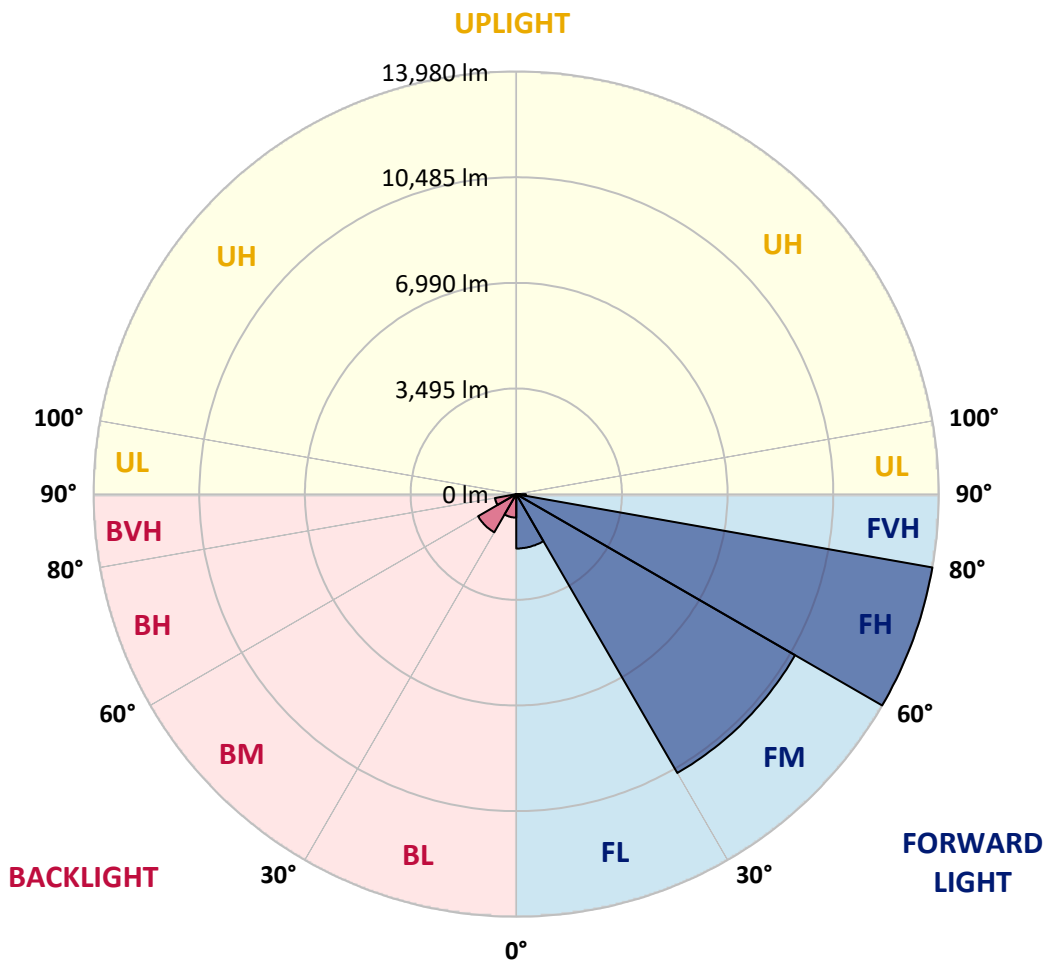


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1798.8	6.1			
FM (30°-60°)	10651.6	35.9			
FH (60°-80°)	13980.0	47.1			G5
FVH (80°-90°)	317.6	1.1			G3/500
BL (0°-30°)	776.5	2.6	B2/1000		
BM (30°-60°)	1459.2	4.9	B2/2500		
BH (60°-80°)	715.8	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2916.0	2916.0	2916.0	2916.0	2916.0	2916.0	2916.0	2916.0	2916.0	2916.0	2916.0
2.5°	3253.7	3232.4	3198.1	3185.3	3151.1	3134.0	3108.4	3095.5	3048.5	3001.5	2971.5
5°	3651.4	3600.1	3617.2	3565.8	3454.7	3364.9	3360.6	3262.3	3155.4	3069.9	2954.4
7.5°	4053.3	4010.5	3946.4	3873.7	3749.7	3617.2	3578.7	3484.6	3335.0	3185.3	3031.4
10°	4356.8	4326.9	4271.3	4168.7	3997.7	3848.0	3852.3	3694.1	3535.9	3364.9	3155.4
12.5°	4545.0	4557.8	4476.6	4373.9	4224.3	4036.2	4031.9	3925.0	3745.4	3565.8	3317.9
15°	4733.1	4780.1	4656.1	4536.4	4344.0	4207.2	4232.8	4104.6	3929.3	3724.0	3450.4
17.5°	4763.0	4775.8	4750.2	4574.9	4433.8	4318.4	4322.6	4237.1	4104.6	3882.2	3647.1
20°	4711.7	4703.2	4673.2	4545.0	4450.9	4382.5	4386.8	4365.4	4292.7	4113.1	3792.5
22.5°	4562.1	4562.1	4523.6	4438.1	4395.3	4459.4	4408.1	4489.4	4412.4	4305.5	4040.4
25°	4442.3	4489.4	4468.0	4412.4	4429.5	4515.0	4540.7	4617.6	4604.8	4472.3	4211.5
27.5°	4570.6	4515.0	4527.9	4463.7	4527.9	4656.1	4669.0	4724.5	4720.3	4613.4	4365.4
30°	4656.1	4707.4	4609.1	4468.0	4536.4	4754.5	4745.9	4818.6	4852.8	4724.5	4510.8
32.5°	4929.8	4887.0	4805.8	4617.6	4626.2	4750.2	4788.7	4882.7	4904.1	4827.1	4651.9
35°	5489.9	5425.7	5070.9	4788.7	4745.9	4805.8	4831.4	5015.3	5053.8	4968.2	4801.5
37.5°	6353.5	6208.2	5780.6	5156.4	4964.0	4951.1	4951.1	5194.9	5340.2	5143.5	5023.8
40°	7589.2	7384.0	6922.2	5836.2	5250.4	5301.7	5353.0	5485.6	5468.5	5340.2	5314.6
42.5°	9162.6	9004.4	8504.2	6977.8	5797.7	5541.2	5498.4	5678.0	5947.4	5896.0	5878.9
45°	10475.2	10483.8	10163.1	8542.6	6742.6	6092.7	6122.7	6259.5	6712.7	6674.2	6669.9
47.5°	11432.9	11313.2	11266.2	10051.9	8119.4	7140.2	7097.5	7191.6	7781.6	8025.3	8136.5
50°	12305.2	12223.9	12112.8	11518.5	9774.0	8452.9	8410.1	8418.7	9320.8	9662.9	9936.5
52.5°	13386.9	13489.5	13121.8	12758.4	11916.1	10158.8	10111.8	9945.0	11065.2	11535.6	11860.5
55°	14720.9	14528.5	14113.7	14301.9	13964.1	12001.6	11916.1	11719.4	13053.4	13250.1	13592.1
57.5°	15015.9	14870.5	15298.1	15965.1	16290.0	14165.1	14130.9	13776.0	14725.2	14545.6	15511.9
60°	15751.3	15789.8	16384.1	17709.5	18273.9	16662.0	16495.3	15871.0	16345.6	16379.8	17410.2
62.5°	16508.1	16418.3	17748.0	19022.1	19890.1	19026.4	18970.8	17730.9	18269.6	17833.5	19197.4
65°	15952.3	16089.1	17991.7	20125.2	21985.1	21339.5	21292.5	19522.4	19817.4	19274.4	19924.3
67.5°	13976.9	13699.0	16362.7	19620.7	23062.6	23763.8	23712.5	21476.3	20689.6	19265.8	18415.0
70°	10244.3	10004.9	12176.9	16615.0	21519.1	25003.7	25208.9	22836.0	20334.7	17470.1	14207.8
72.5°	5019.6	5023.8	6823.9	11266.2	17025.4	22788.9	22891.6	20937.6	17470.1	12878.1	8046.7
75°	1483.6	1500.7	2526.9	5524.1	11005.4	17307.6	17423.1	15892.4	12108.5	6652.8	2744.9
77.5°	543.0	543.0	838.0	2073.7	5489.9	10924.2	10915.6	9756.9	6131.2	2253.2	641.3
80°	282.2	295.0	436.1	846.6	2377.2	5690.8	5904.6	4775.8	2330.2	949.2	188.1
82.5°	115.4	128.3	239.4	436.1	1141.6	1996.7	2184.8	1872.7	1013.3	662.7	85.5
85°	34.2	38.5	115.4	243.7	448.9	500.2	555.8	628.5	637.1	513.1	38.5
87.5°	4.3	4.3	47.0	81.2	98.3	106.9	124.0	124.0	324.9	359.2	21.4
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°	2916.0	2916.0	2916.0	2916.0	2916.0	2916.0	2916.0	2916.0	2916.0	2916.0	2916.0
2.5°	2937.3	2916.0	2881.8	2804.8	2787.7	2732.1	2727.8	2676.5	2693.6	2659.4	2646.6
5°	2916.0	2868.9	2774.9	2715.0	2655.1	2616.7	2591.0	2569.6	2565.4	2548.3	2539.7
7.5°	2954.4	2890.3	2744.9	2650.9	2548.3	2514.1	2458.5	2454.2	2424.3	2394.3	2394.3
10°	3082.7	2967.3	2809.1	2650.9	2518.3	2407.2	2278.9	2184.8	2150.6	2073.7	2082.2
12.5°	3185.3	3082.7	2851.8	2689.4	2488.4	2236.1	1953.9	1735.9	1633.3	1534.9	1573.4
15°	3330.7	3181.0	2933.1	2697.9	2373.0	1936.8	1475.1	1231.4	1137.3	1115.9	1111.7
17.5°	3488.9	3330.7	3035.7	2676.5	2137.8	1496.5	1086.0	944.9	962.0	987.7	983.4
20°	3664.2	3471.8	3112.6	2603.8	1765.8	1086.0	889.3	885.0	910.7	949.2	957.7
22.5°	3848.0	3681.3	3206.7	2385.8	1316.9	872.2	855.1	855.1	872.2	919.3	910.7
25°	4053.3	3830.9	3253.7	2048.0	944.9	803.8	812.4	829.5	838.0	876.5	880.8
27.5°	4211.5	3997.7	3266.6	1641.8	769.6	744.0	765.3	786.7	799.5	829.5	842.3
30°	4356.8	4207.2	3198.1	1222.8	705.5	692.6	701.2	731.1	756.8	782.4	782.4
32.5°	4540.7	4326.9	3039.9	867.9	667.0	645.6	641.3	654.2	684.1	714.0	714.0
35°	4728.8	4527.9	2787.7	696.9	632.8	602.9	585.8	572.9	585.8	607.1	624.2
37.5°	5002.4	4831.4	2471.3	641.3	607.1	564.4	530.2	500.2	478.9	474.6	487.4
40°	5391.5	5173.5	2065.1	602.9	577.2	525.9	474.6	423.3	376.3	346.3	350.6
42.5°	5981.6	5678.0	1624.7	581.5	555.8	483.1	410.5	337.8	277.9	248.0	248.0
45°	6823.9	6345.0	1192.9	560.1	530.2	431.8	337.8	252.3	192.4	175.3	179.6
47.5°	8093.7	7148.8	855.1	525.9	496.0	376.3	265.1	179.6	141.1	132.5	136.8
50°	9752.6	8102.3	667.0	487.4	453.2	316.4	196.7	132.5	111.2	106.9	111.2
52.5°	11492.8	9064.3	585.8	453.2	389.1	252.3	145.4	106.9	94.1	89.8	94.1
55°	12980.7	9684.2	508.8	401.9	312.1	188.1	115.4	94.1	81.2	68.4	68.4
57.5°	14485.7	9996.3	401.9	333.5	230.9	141.1	98.3	81.2	68.4	55.6	51.3
60°	15708.5	10218.7	286.5	248.0	162.5	111.2	85.5	72.7	55.6	42.8	38.5
62.5°	16512.4	9581.6	209.5	188.1	119.7	94.1	72.7	59.9	42.8	29.9	29.9
65°	16114.7	8700.8	162.5	132.5	89.8	72.7	59.9	42.8	29.9	17.1	12.8
67.5°	14460.1	7088.9	132.5	98.3	68.4	55.6	47.0	34.2	17.1	4.3	4.3
70°	10787.3	5194.9	106.9	72.7	55.6	42.8	34.2	21.4	8.6	4.3	0.0
72.5°	5900.3	2843.3	85.5	59.9	42.8	34.2	25.7	17.1	8.6	0.0	0.0
75°	1949.7	756.8	64.1	42.8	25.7	21.4	17.1	12.8	4.3	0.0	0.0
77.5°	470.3	196.7	51.3	38.5	21.4	12.8	8.6	4.3	4.3	0.0	0.0
80°	145.4	81.2	38.5	25.7	17.1	12.8	4.3	0.0	0.0	0.0	0.0
82.5°	59.9	38.5	17.1	17.1	12.8	4.3	0.0	0.0	0.0	0.0	0.0
85°	29.9	21.4	12.8	8.6	8.6	4.3	0.0	0.0	0.0	0.0	0.0
87.5°	21.4	8.6	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)