

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: P482437

Luminaire Tested: **IFLD-L-SA8A-735-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482437  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-735-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (128) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

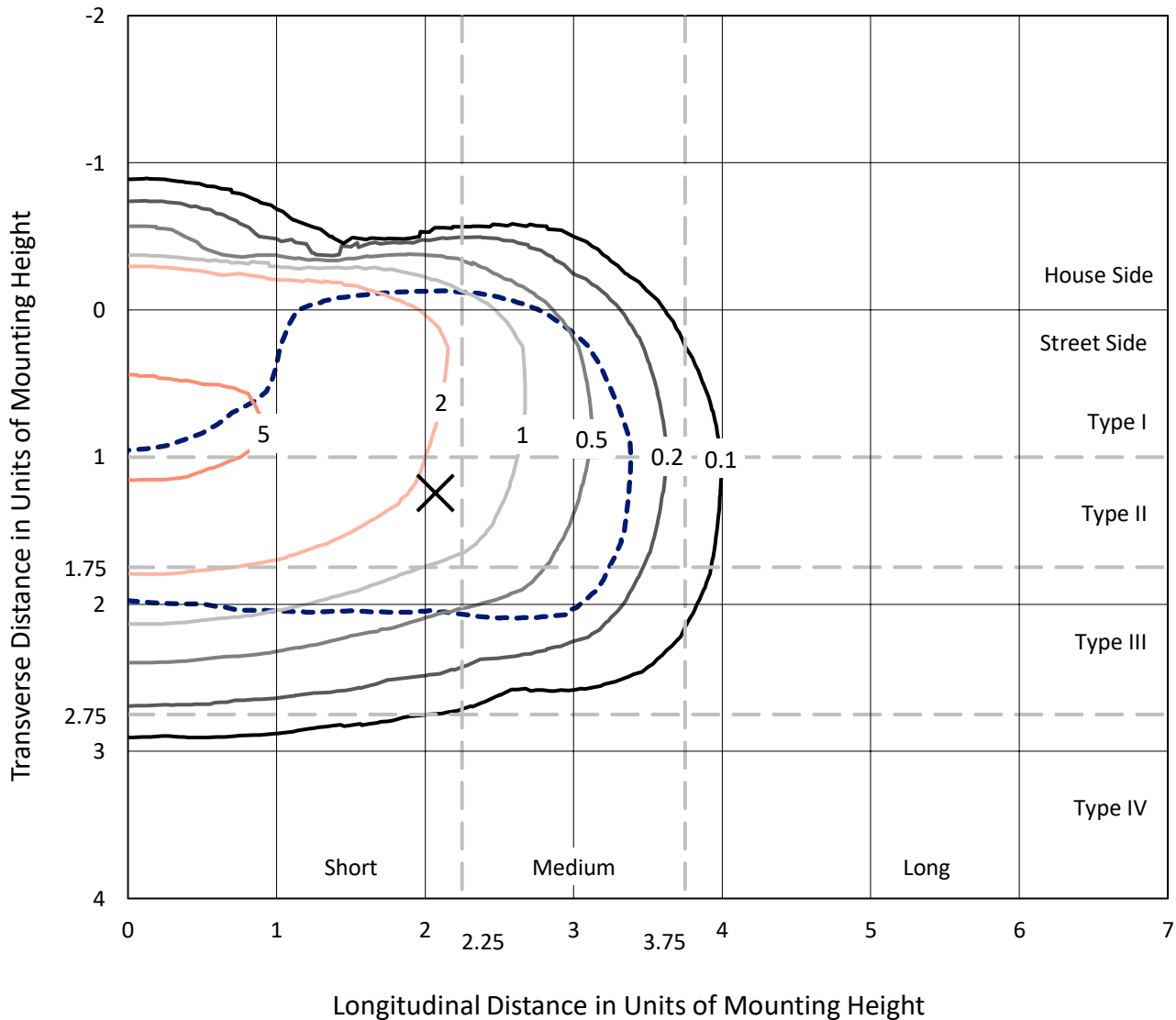
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25070.7 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 247.8  
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

REPORT NUMBER: P482437  
 CATALOG NUMBER: IFLD-L-SA8A-735-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

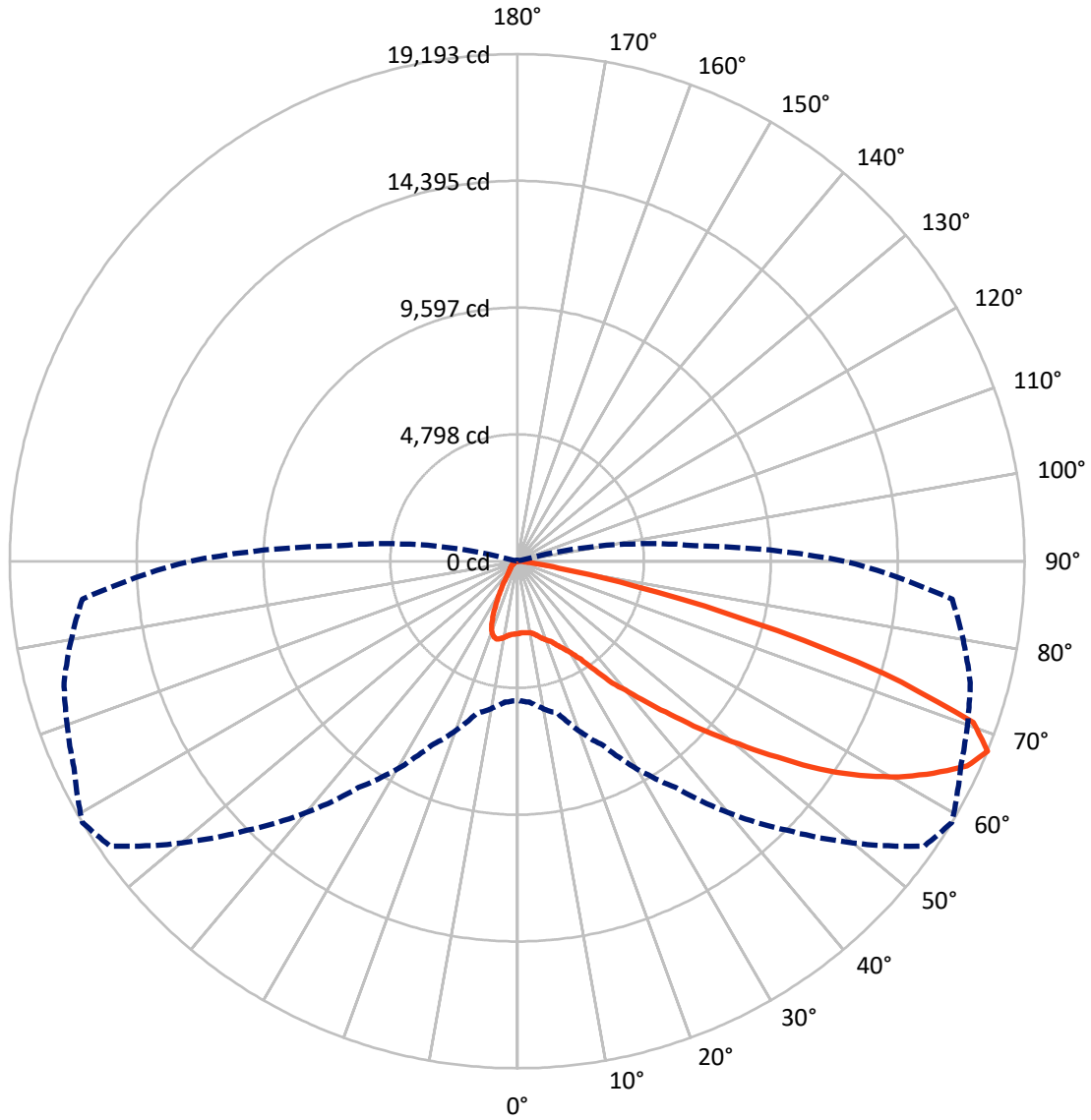
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type III - Short - N/A

REPORT NUMBER: P482437  
CATALOG NUMBER: IFLD-L-SA8A-735-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P482437  
 CATALOG NUMBER: IFLD-L-SA8A-735-U-T3-HSS

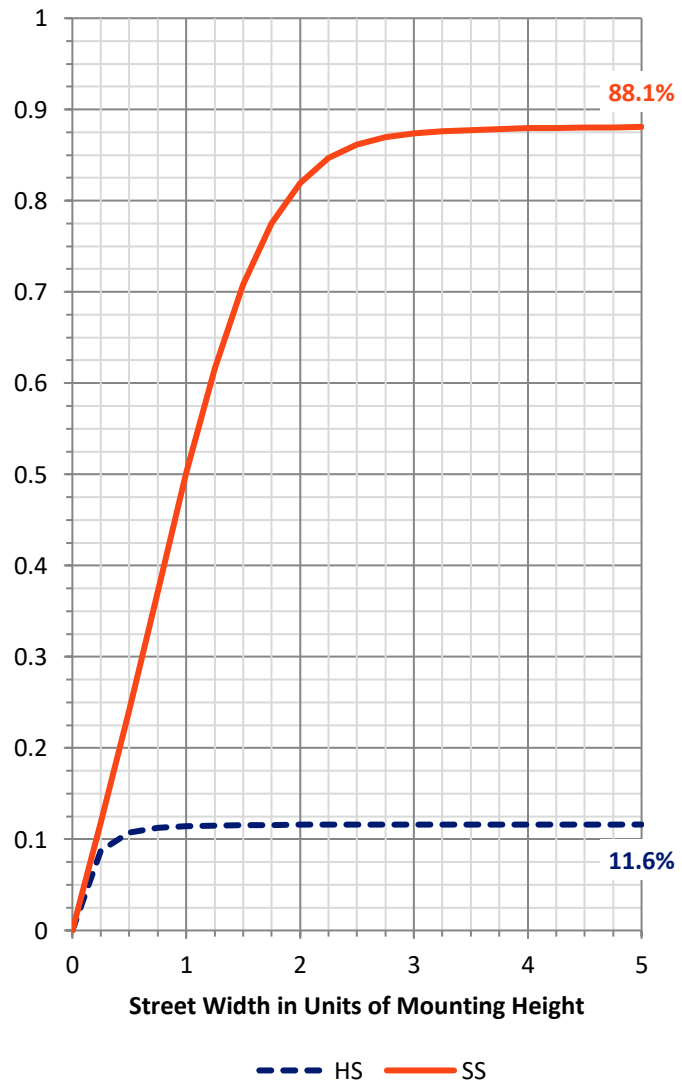
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2945.0	0.0	2945.0
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	22125.7	0.0	22125.7
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	25070.7	0.0	25070.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.2	1.0
10°-20°	754.5	3.0
20°-30°	1318.7	5.3
30°-40°	2321.7	9.3
40°-50°	4104.1	16.4
50°-60°	6498.2	25.9
60°-70°	7208.3	28.8
70°-80°	2501.1	10.0
80°-90°	103.0	0.4
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°	25070.7	100.0
0°-180°	25070.7	100.0

**Coefficient of Utilization**

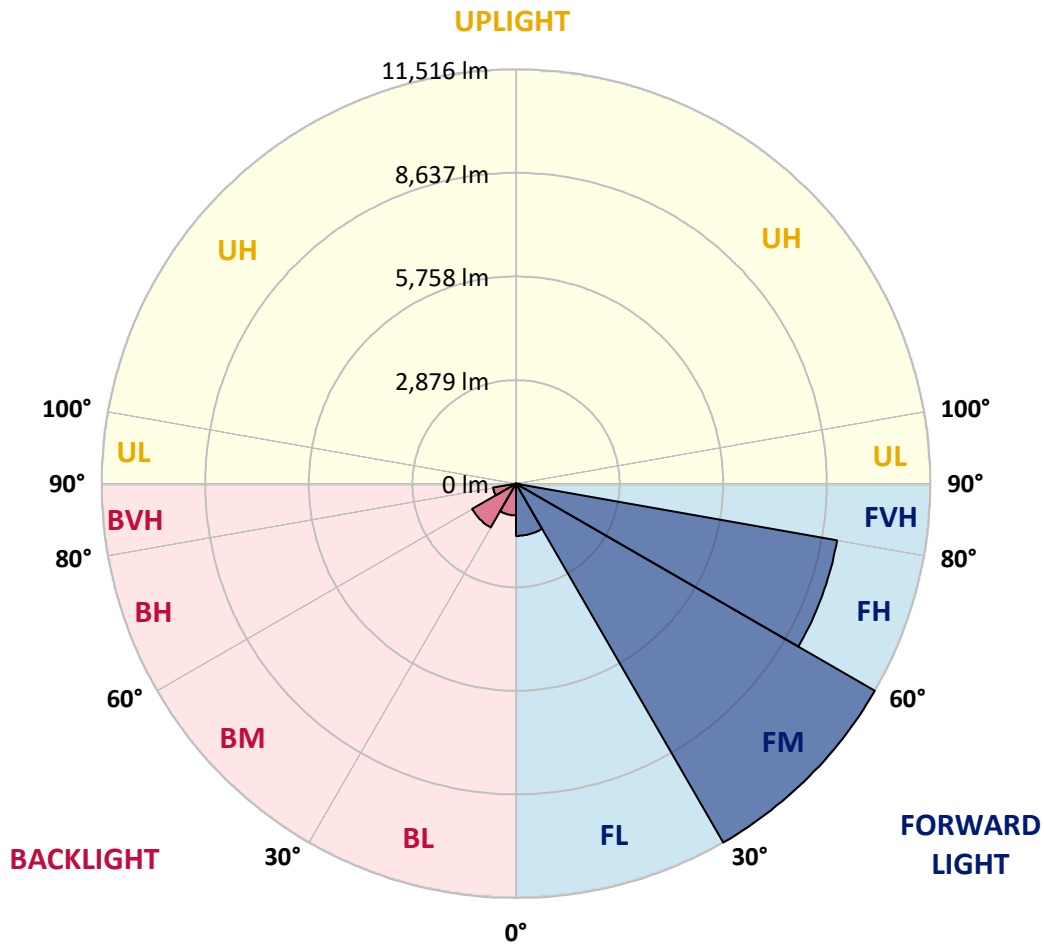


REPORT NUMBER: P482437  
 CATALOG NUMBER: IFLD-L-SA8A-735-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1451.8	5.8			
FM (30°-60°)	11515.9	45.9			
FH (60°-80°)	9061.7	36.1			G4/12000
FVH (80°-90°)	96.3	0.4			G1/100
BL (0°-30°)	882.6	3.5	B2/1000		
BM (30°-60°)	1408.0	5.6	B2/2500		
BH (60°-80°)	647.7	2.6	B2/1000		G2/1000
BVH (80°-90°)	6.7	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-G4**  
 Type III Short





REPORT NUMBER: P482437

CATALOG NUMBER: IFLD-L-SA8A-735-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2749.8	2749.8	2749.8	2749.8	2749.8	2749.8	2749.8	2749.8	2749.8	2749.8	2749.8
2.5°	2670.2	2632.1	2666.7	2670.2	2673.6	2704.8	2739.4	2715.2	2711.7	2739.4	2763.7
5°	2562.8	2545.5	2587.0	2607.8	2642.4	2670.2	2725.6	2729.0	2732.5	2763.7	2805.2
7.5°	2517.8	2476.2	2524.7	2548.9	2573.2	2639.0	2704.8	2739.4	2787.9	2826.0	2867.6
10°	2427.7	2458.9	2472.7	2514.3	2583.6	2659.8	2739.4	2756.7	2864.1	2895.3	2995.7
12.5°	2458.9	2479.7	2507.4	2517.8	2594.0	2708.2	2815.6	2822.5	2933.4	3068.4	3120.4
15°	2538.6	2524.7	2535.1	2548.9	2639.0	2732.5	2905.7	2936.8	3040.7	3193.1	3321.2
17.5°	2708.2	2684.0	2666.7	2663.2	2684.0	2770.6	2974.9	3068.4	3165.4	3373.2	3439.0
20°	3134.2	3113.4	3044.2	2864.1	2801.8	2836.4	3058.0	3189.6	3324.7	3556.7	3664.1
22.5°	3781.9	3802.6	3639.9	3387.0	3127.3	2992.2	3189.6	3303.9	3518.6	3813.0	3910.0
25°	4547.2	4505.7	4308.3	4013.9	3605.2	3286.6	3400.9	3529.0	3792.2	4034.7	4072.8
27.5°	5146.4	5097.9	4945.5	4588.8	4235.5	3719.5	3678.0	3757.6	4069.3	4287.5	4245.9
30°	5738.6	5755.9	5652.0	5229.5	4793.1	4249.4	3986.2	4020.8	4259.8	4540.3	4446.8
32.5°	6493.6	6452.0	6393.1	6022.6	5506.5	4924.7	4474.5	4419.1	4523.0	4893.5	4782.7
35°	7196.6	7172.4	7092.7	6718.7	6268.5	5634.7	5194.9	5070.2	5045.9	5458.1	5264.1
37.5°	7809.6	7768.0	7646.8	7407.9	6971.5	6438.2	5956.8	5845.9	5842.5	6126.5	5752.4
40°	8325.6	8356.8	8342.9	8079.7	7840.8	7414.8	6677.1	6500.5	6486.6	6639.0	6420.8
42.5°	8994.0	9066.7	9028.7	8976.7	8689.3	8523.0	7688.4	7418.2	7297.0	7608.7	7411.3
45°	10005.3	10033.0	10057.2	9929.1	9641.6	9676.3	8734.3	8412.2	8381.0	8845.1	8401.8
47.5°	10950.7	10878.0	11047.7	11054.6	11040.8	10881.5	9863.3	9624.3	9665.9	10019.1	9562.0
50°	11186.2	11373.3	11840.8	11927.4	12152.5	12297.9	11117.0	10878.0	10947.3	11349.0	10826.1
52.5°	11369.8	11653.8	12121.3	12755.1	13361.2	13707.5	12519.6	12325.6	12322.2	12568.1	11847.7
55°	11691.9	11865.0	12270.2	13143.0	14296.2	14864.2	14209.6	13898.0	13617.4	13790.6	12907.5
57.5°	11660.7	11726.5	12356.8	13433.9	15037.4	16069.4	15598.4	15300.6	14940.4	14840.0	14126.5
60°	11113.5	11269.4	11975.9	13236.5	15494.5	17007.9	16893.7	16588.9	15969.0	15733.5	15061.6
62.5°	10029.5	10237.3	10791.4	12543.8	14829.6	17056.4	17787.2	17672.9	16980.2	16557.7	16280.7
65°	8128.2	8225.2	8862.4	10784.5	13326.5	16311.8	18843.5	18701.5	18064.2	17433.9	16907.5
67.5°	5264.1	5357.6	5970.6	7698.8	10465.9	14389.7	18801.9	19193.2	18504.1	17745.6	16516.2
70°	2486.6	2462.4	3033.8	4277.1	6704.8	10988.8	17530.9	18303.2	17717.9	16086.7	13717.9
72.5°	758.4	824.2	1260.6	1894.4	3442.5	6853.7	13742.1	14465.9	14282.4	12852.1	9156.8
75°	335.9	363.6	495.2	775.8	1395.7	2812.1	8488.4	9132.5	9052.9	7581.0	4180.1
77.5°	214.7	235.5	311.7	443.3	633.8	893.5	3910.0	4536.8	4398.3	2663.2	1094.4
80°	152.4	162.8	221.6	304.8	398.3	367.1	1347.2	1600.0	1534.2	723.8	294.4
82.5°	83.1	90.0	162.8	225.1	266.7	187.0	377.5	471.0	491.8	322.1	142.0
85°	31.2	38.1	100.4	159.3	138.5	86.6	110.8	135.1	176.6	176.6	65.8
87.5°	0.0	3.5	41.6	69.3	34.6	24.2	31.2	38.1	48.5	83.1	24.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P482437  
 CATALOG NUMBER: IFLD-L-SA8A-735-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2749.8	2749.8	2749.8	2749.8	2749.8	2749.8	2749.8	2749.8	2749.8	2749.8	2749.8
2.5°	2781.0	2756.7	2767.1	2784.4	2746.3	2767.1	2725.6	2756.7	2767.1	2725.6	2746.3
5°	2815.6	2839.9	2826.0	2798.3	2774.1	2781.0	2770.6	2746.3	2767.1	2774.1	2760.2
7.5°	2916.0	2888.3	2895.3	2864.1	2815.6	2812.1	2746.3	2729.0	2736.0	2742.9	2718.6
10°	3009.6	3026.9	2992.2	2968.0	2888.3	2836.4	2746.3	2649.4	2639.0	2597.4	2632.1
12.5°	3175.8	3134.2	3120.4	3040.7	2961.1	2787.9	2594.0	2445.0	2320.4	2275.3	2230.3
15°	3314.3	3307.4	3283.1	3161.9	2978.4	2663.2	2296.1	1949.8	1710.8	1561.9	1541.1
17.5°	3504.8	3473.6	3428.6	3238.1	2850.2	2337.7	1710.8	1274.5	1035.5	942.0	907.4
20°	3650.2	3626.0	3563.7	3220.8	2618.2	1742.0	1059.7	810.4	751.5	734.2	737.7
22.5°	3861.5	3785.3	3667.6	3134.2	2195.7	1160.2	761.9	723.8	713.4	699.6	703.0
25°	4045.1	3975.8	3729.9	2985.3	1565.4	768.8	706.5	685.7	668.4	651.1	647.6
27.5°	4207.8	4121.2	3795.7	2680.5	980.1	661.5	654.6	630.3	595.7	568.0	557.6
30°	4367.1	4266.7	3813.0	2109.1	661.5	599.1	581.8	543.7	498.7	460.6	453.7
32.5°	4633.8	4512.6	3788.8	1506.5	571.4	533.3	495.2	450.2	384.4	353.2	346.3
35°	5049.4	4865.8	3757.6	886.6	512.6	471.0	412.1	353.2	304.8	273.6	266.7
37.5°	5527.3	5208.7	3667.6	592.2	471.0	415.6	339.4	280.5	239.0	214.7	207.8
40°	6237.3	5710.9	3321.2	484.9	419.1	353.2	273.6	221.6	190.5	173.2	166.2
42.5°	7020.0	6285.8	2787.9	436.4	370.6	301.3	218.2	180.1	155.8	138.5	138.5
45°	7958.5	6884.9	2150.7	398.3	329.0	249.4	180.1	145.5	124.7	110.8	103.9
47.5°	9004.4	7428.6	1451.1	360.2	277.1	204.3	148.9	110.8	90.0	79.7	79.7
50°	9939.5	7910.0	924.7	315.2	242.4	169.7	121.2	90.0	72.7	58.9	55.4
52.5°	10788.0	8277.1	637.2	277.1	207.8	138.5	100.4	72.7	55.4	45.0	45.0
55°	11657.2	8464.1	471.0	239.0	180.1	117.7	83.1	65.8	48.5	38.1	34.6
57.5°	12370.7	8543.8	360.2	207.8	152.4	93.5	72.7	55.4	41.6	31.2	27.7
60°	12980.2	8505.7	280.5	173.2	121.2	79.7	62.3	45.0	34.6	24.2	20.8
62.5°	13336.9	8277.1	221.6	148.9	97.0	69.3	51.9	38.1	24.2	17.3	13.9
65°	13343.8	7792.3	173.2	110.8	72.7	58.9	45.0	31.2	17.3	6.9	3.5
67.5°	12388.0	6742.9	138.5	86.6	58.9	45.0	34.6	24.2	6.9	0.0	0.0
70°	9690.1	5101.3	114.3	69.3	48.5	38.1	24.2	13.9	3.5	0.0	0.0
72.5°	6174.9	3054.6	93.5	55.4	41.6	27.7	17.3	10.4	0.0	0.0	0.0
75°	2583.6	942.0	72.7	48.5	31.2	20.8	13.9	3.5	0.0	0.0	0.0
77.5°	664.9	297.8	58.9	41.6	31.2	17.3	10.4	3.5	0.0	0.0	0.0
80°	197.4	110.8	48.5	34.6	24.2	13.9	6.9	3.5	0.0	0.0	0.0
82.5°	90.0	65.8	41.6	31.2	20.8	13.9	6.9	0.0	0.0	0.0	0.0
85°	34.6	20.8	20.8	17.3	17.3	10.4	3.5	0.0	0.0	0.0	0.0
87.5°	13.9	6.9	6.9	6.9	3.5	3.5	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)