

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: P482781

Luminaire Tested: **IFLD-M-SA4D-730-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482781  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-730-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

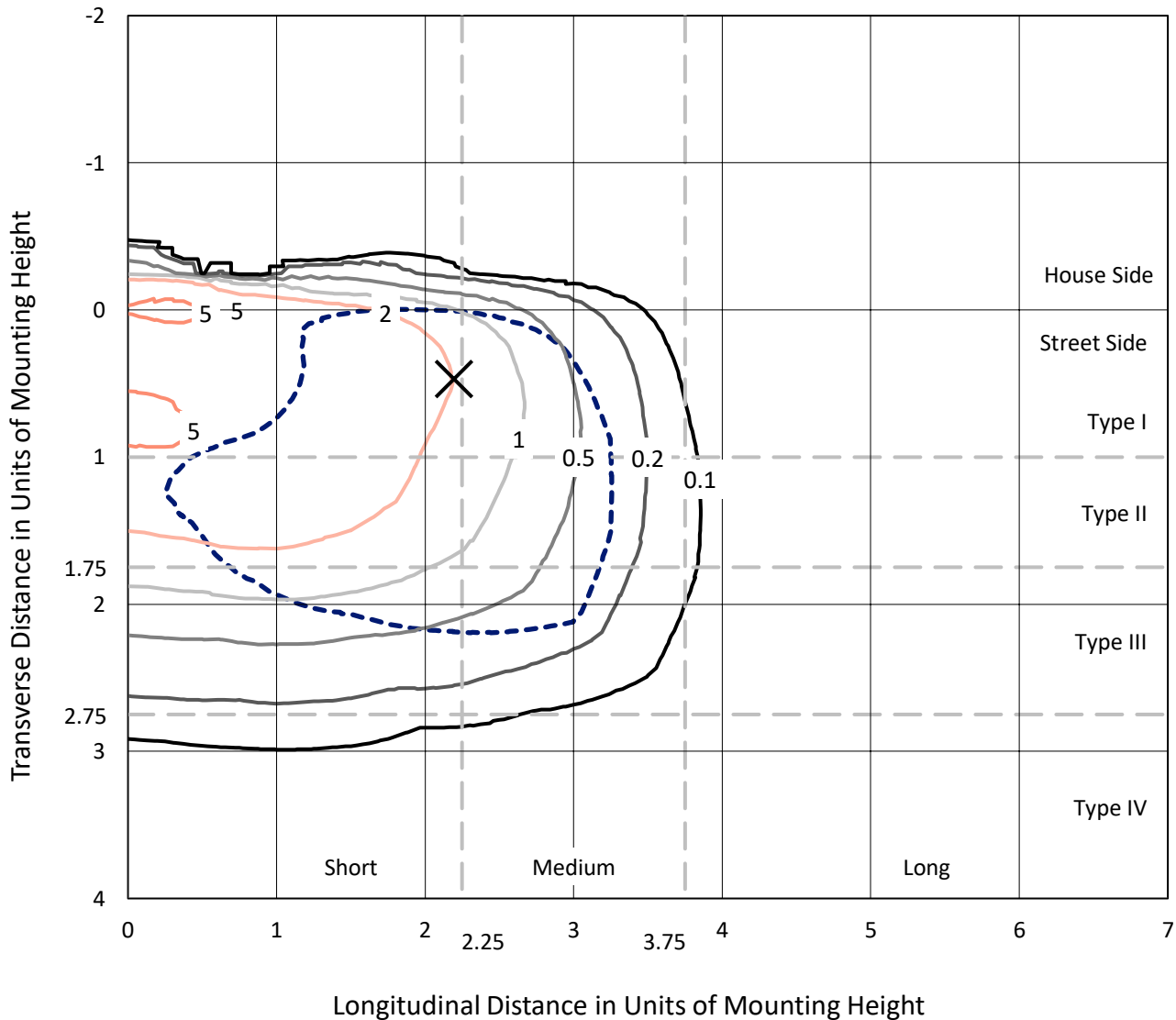
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20420.1 lumens  
Efficiency: N/A  
Efficacy: 81.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 249.7  
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

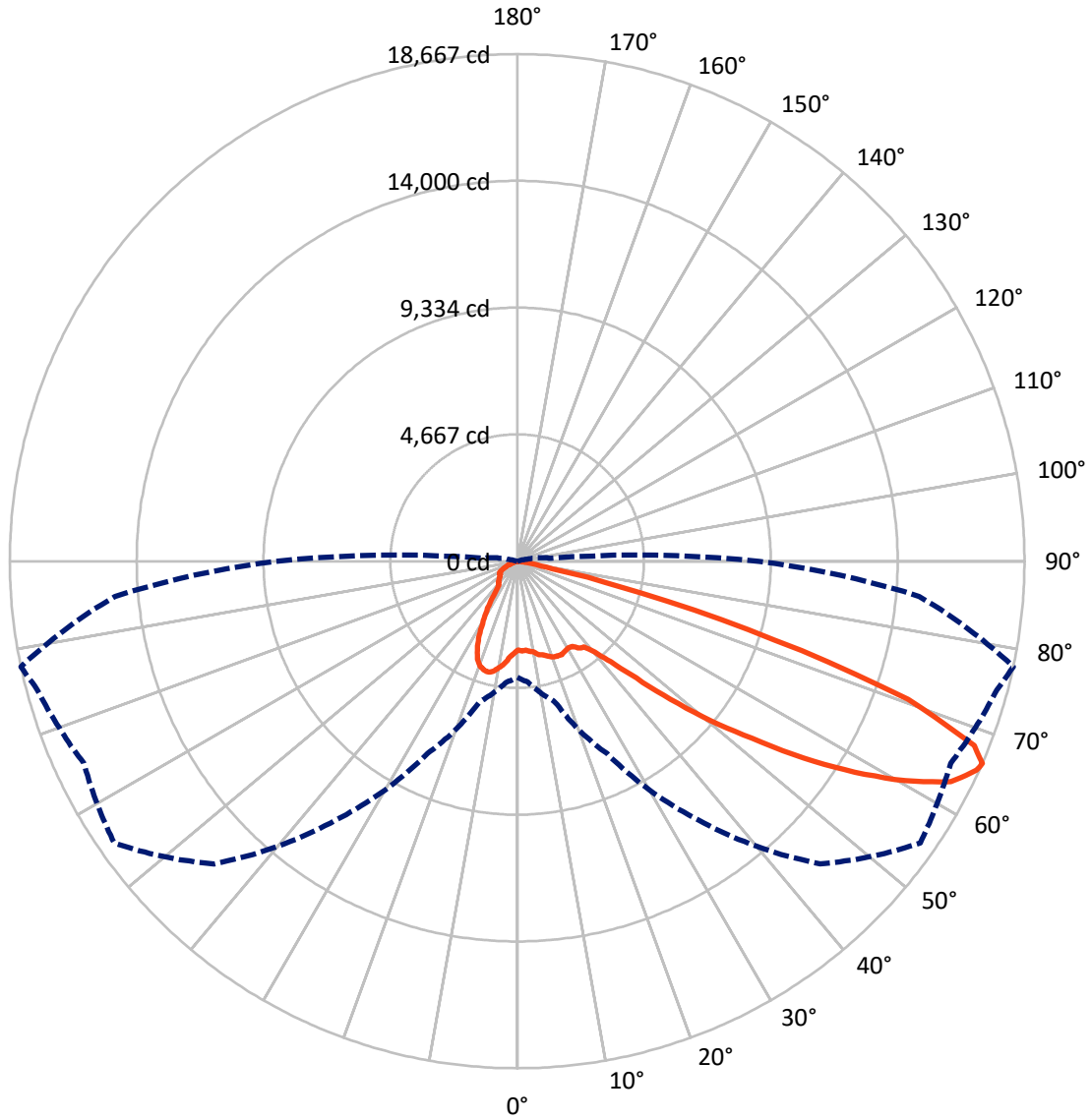
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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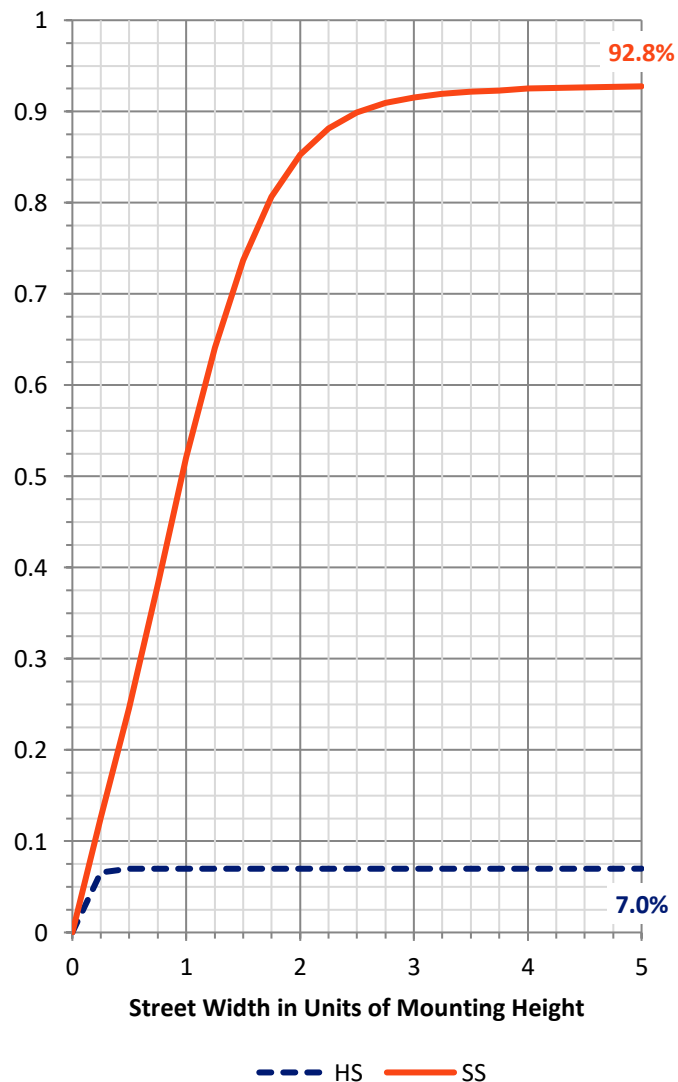
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1435.6	0.0	1435.6
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	18984.5	0.0	18984.5
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	20420.1	0.0	20420.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.2	1.5
10°-20°	675.4	3.3
20°-30°	965.4	4.7
30°-40°	1652.5	8.1
40°-50°	2982.6	14.6
50°-60°	5100.7	25.0
60°-70°	6278.1	30.7
70°-80°	2373.4	11.6
80°-90°	92.7	0.5
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°	20420.1	100.0
0°-180°	20420.1	100.0

**Coefficient of Utilization**

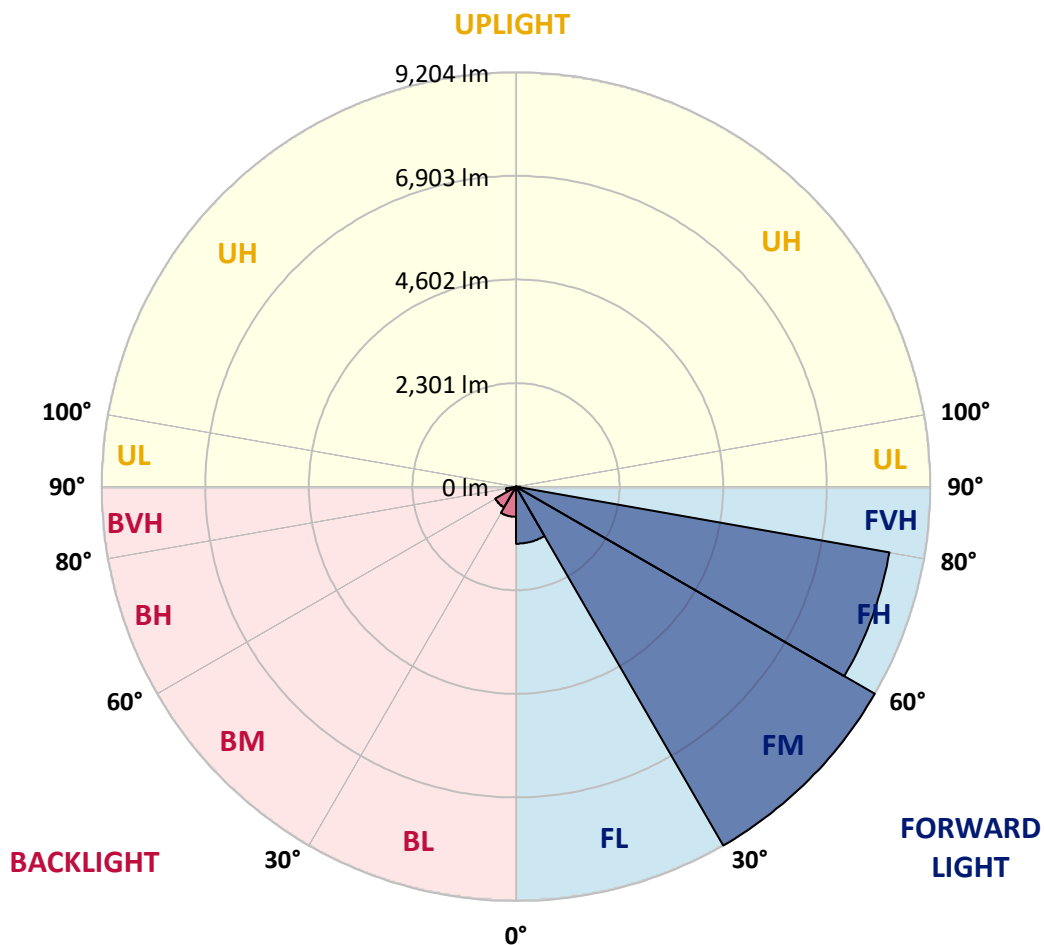


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1267.7	6.2			
FM (30°-60°)	9203.8	45.1			
FH (60°-80°)	8424.1	41.3			G4/12000
FVH (80°-90°)	89.0	0.4			G1/100
BL (0°-30°)	672.4	3.3	B2/1000		
BM (30°-60°)	532.1	2.6	B1/1000		
BH (60°-80°)	227.4	1.1	B1/500		G1/500
BVH (80°-90°)	3.7	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3270.6	3270.6	3270.6	3270.6	3270.6	3270.6	3270.6	3270.6	3270.6	3270.6	3270.6
2.5°	3008.4	2980.6	3008.4	3048.5	3070.1	3088.6	3153.4	3208.9	3267.6	3307.7	3295.3
5°	2789.3	2841.8	2847.9	2860.3	2894.2	3005.3	3042.3	3138.0	3283.0	3295.3	3350.9
7.5°	2616.5	2601.1	2641.2	2721.4	2807.8	2872.6	2980.6	3147.2	3298.4	3350.9	3458.9
10°	2366.6	2397.4	2440.6	2520.9	2625.8	2786.2	2977.5	3162.6	3378.6	3397.1	3597.7
12.5°	2230.8	2200.0	2267.9	2351.2	2530.1	2678.2	2912.7	3134.9	3428.0	3529.8	3761.2
15°	2119.7	2135.2	2200.0	2255.5	2403.6	2591.8	2866.4	3202.8	3511.3	3582.3	3934.0
17.5°	2073.5	2064.2	2113.6	2169.1	2351.2	2564.1	2847.9	3205.8	3585.4	3677.9	4051.3
20°	2095.1	2113.6	2098.1	2150.6	2264.8	2480.8	2875.7	3264.5	3640.9	3767.4	4177.8
22.5°	2434.5	2409.8	2286.4	2187.6	2193.8	2446.8	2854.1	3301.5	3690.3	3792.1	4264.2
25°	3320.0	3187.3	2881.9	2502.4	2252.4	2354.2	2829.4	3289.2	3681.0	3807.5	4316.6
27.5°	4211.7	4097.6	3798.3	3208.9	2490.0	2317.2	2743.0	3298.4	3634.7	3752.0	4230.2
30°	5152.8	5214.5	4770.2	4069.8	3113.3	2520.9	2687.5	3249.0	3603.9	3702.6	4248.8
32.5°	6118.6	6093.9	5825.4	5066.4	4005.0	2971.3	2777.0	3298.4	3644.0	3739.6	4356.7
35°	6874.5	6788.1	6516.6	5831.6	4742.4	3650.2	3085.5	3532.9	3819.9	3934.0	4511.0
37.5°	7247.9	7284.9	7127.5	6532.0	5550.8	4279.6	3471.2	3532.9	3875.4	4008.1	4760.9
40°	7537.9	7649.0	7590.4	7399.1	6353.1	4989.3	3897.0	3752.0	4156.2	4406.1	5229.9
42.5°	7886.6	7834.1	8179.7	8003.8	7402.1	5884.1	4643.7	4273.4	4819.6	5060.2	5933.4
45°	8071.7	8272.3	8534.5	8759.8	8374.1	7001.0	5618.7	5196.0	5834.7	6140.2	6979.4
47.5°	8546.9	8627.1	9052.9	9336.8	9164.0	8278.4	7099.8	6544.4	7112.1	7593.4	8176.6
50°	8824.6	8716.6	9312.1	9744.0	9842.8	9336.8	8426.5	7994.6	8630.2	9244.2	9296.6
52.5°	8580.8	8889.4	9484.9	10259.3	10533.9	10280.9	9984.7	9796.5	10243.9	10811.6	10558.6
55°	7726.1	7935.9	9386.1	10824.0	11709.5	11592.3	11866.9	11743.5	12193.9	12795.6	12033.5
57.5°	7038.1	7300.3	8574.6	11117.1	12804.9	13150.5	13496.0	13418.9	13961.9	14656.2	13283.1
60°	6609.2	6760.4	7988.4	11043.0	13452.8	14761.1	15541.7	14998.7	15884.2	16414.9	14261.2
62.5°	5865.6	5961.2	7133.7	10061.9	13647.2	15899.6	17223.3	16485.9	17254.2	17902.1	14964.7
65°	4702.3	4961.5	5930.4	8593.2	12363.6	16109.5	18272.4	17405.4	18149.0	18574.8	15177.6
66°	4279.6	4467.8	5356.4	7815.6	11632.4	15760.8	18096.5	17596.7	18278.6	18667.3	14850.6
67.5°	3551.4	3715.0	4421.5	6707.9	10135.9	14992.5	18219.9	17467.1	18377.3	18139.7	14412.4
70°	2351.2	2456.1	3023.8	4535.7	7059.7	12264.9	16899.3	16455.0	16155.7	15264.0	11268.3
72.5°	1098.4	1249.6	1888.3	2749.2	4140.8	8580.8	13779.9	13184.4	11330.0	9904.5	7109.0
75°	496.8	564.6	1036.7	1576.7	1857.5	4446.2	8889.4	8028.5	5640.3	4683.8	3113.3
77.5°	268.4	305.5	506.0	749.8	675.7	1558.2	4399.9	3659.4	1777.3	1302.1	904.1
80°	206.7	243.8	422.7	428.9	249.9	404.2	1635.3	1132.4	444.3	336.3	216.0
82.5°	108.0	154.3	333.2	277.7	126.5	163.5	506.0	314.7	138.8	111.1	92.6
85°	43.2	67.9	188.2	185.1	74.1	55.5	141.9	95.7	55.5	46.3	43.2
87.5°	3.1	3.1	101.8	71.0	46.3	15.4	21.6	21.6	27.8	24.7	30.9
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°	3270.6	3270.6	3270.6	3270.6	3270.6	3270.6	3270.6	3270.6	3270.6	3270.6	3270.6
2.5°	3350.9	3387.9	3394.1	3495.9	3517.5	3495.9	3551.4	3542.2	3566.9	3548.3	3514.4
5°	3428.0	3480.5	3582.3	3659.4	3659.4	3597.7	3548.3	3483.5	3387.9	3363.2	3344.7
7.5°	3560.7	3727.3	3819.9	3770.5	3671.8	3440.3	3119.5	2885.0	2687.5	2613.4	2579.5
10°	3795.2	3887.7	3995.7	3795.2	3384.8	2894.2	2354.2	1999.4	1721.7	1660.0	1613.7
12.5°	3946.4	4094.5	4156.2	3659.4	2854.1	2122.8	1536.6	1135.5	941.1	793.0	768.3
15°	4143.8	4313.5	4187.0	3292.2	2249.3	1391.6	796.1	496.8	404.2	379.5	379.5
17.5°	4279.6	4464.7	4060.5	2835.6	1595.2	740.5	394.9	342.5	336.3	339.4	333.2
20°	4517.2	4628.3	3869.2	2304.9	953.4	379.5	317.8	305.5	299.3	308.6	302.4
22.5°	4606.7	4708.5	3557.6	1669.3	428.9	253.0	237.6	228.3	234.5	231.4	228.3
25°	4600.5	4653.0	3045.4	956.5	126.5	98.7	89.5	89.5	83.3	86.4	83.3
27.5°	4646.8	4517.2	2471.5	283.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	4671.5	4298.1	1758.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4683.8	4184.0	1132.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	4779.5	3955.6	484.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4844.3	3662.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5112.7	3569.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5461.4	3397.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5945.8	3141.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6587.6	2989.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7065.8	2752.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7673.7	2610.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8395.7	2616.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9052.9	2573.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9389.2	2200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9318.2	1780.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9071.4	1397.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8901.7	1237.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8386.4	990.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6674.0	678.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4245.7	416.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1956.2	191.3	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	614.0	117.2	24.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	160.4	74.1	24.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	83.3	52.5	21.6	9.3	6.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	52.5	21.6	9.3	6.2	6.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	46.3	12.3	6.2	6.2	3.1	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)