

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: P482784

Luminaire Tested: **IFLD-L-SA7B-730-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482784  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-730-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

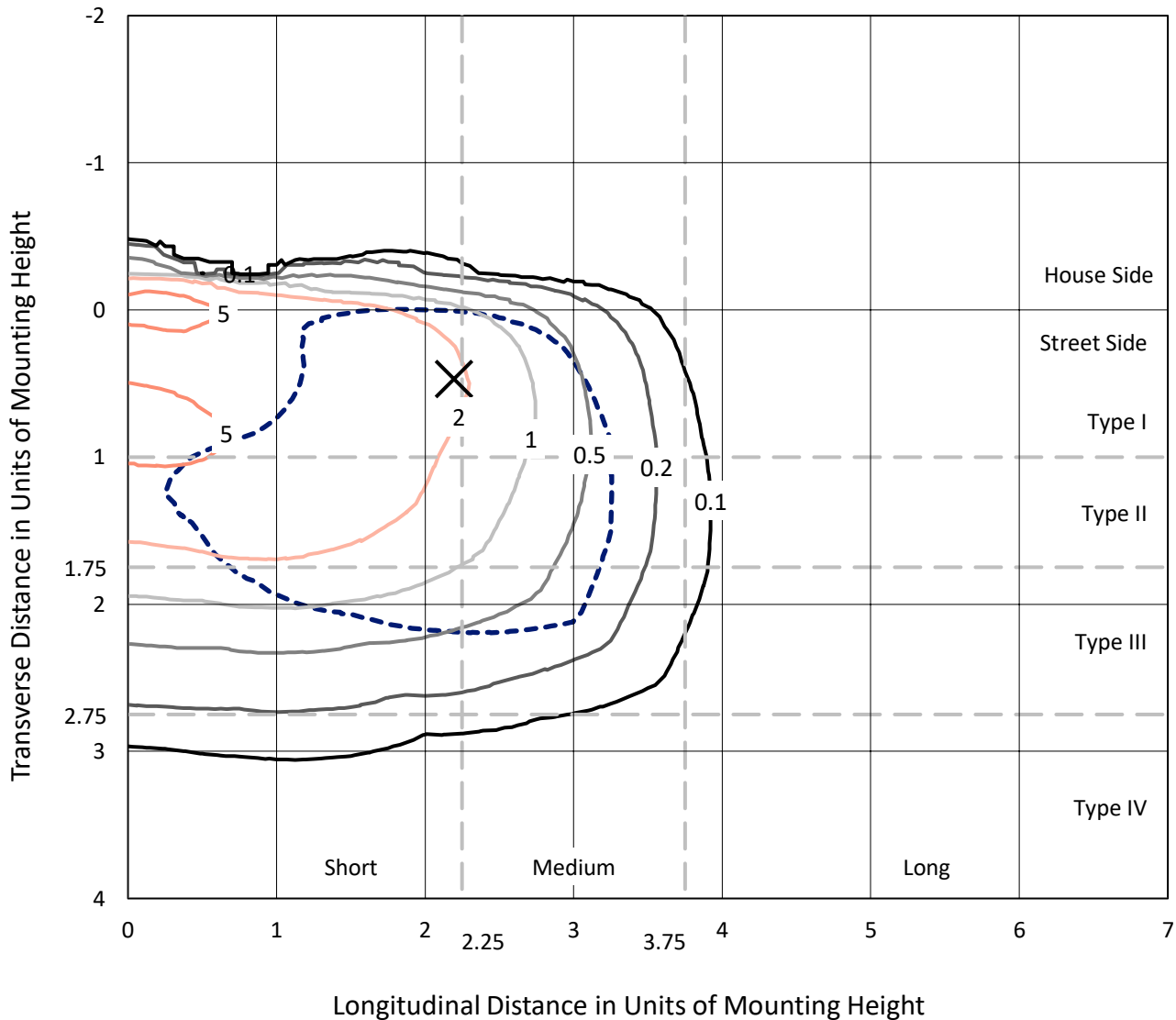
Lumens per Lamp: N/A  
Luminaire Lumens: 23245.3 lumens  
Efficiency: N/A  
Efficacy: 82.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 281  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

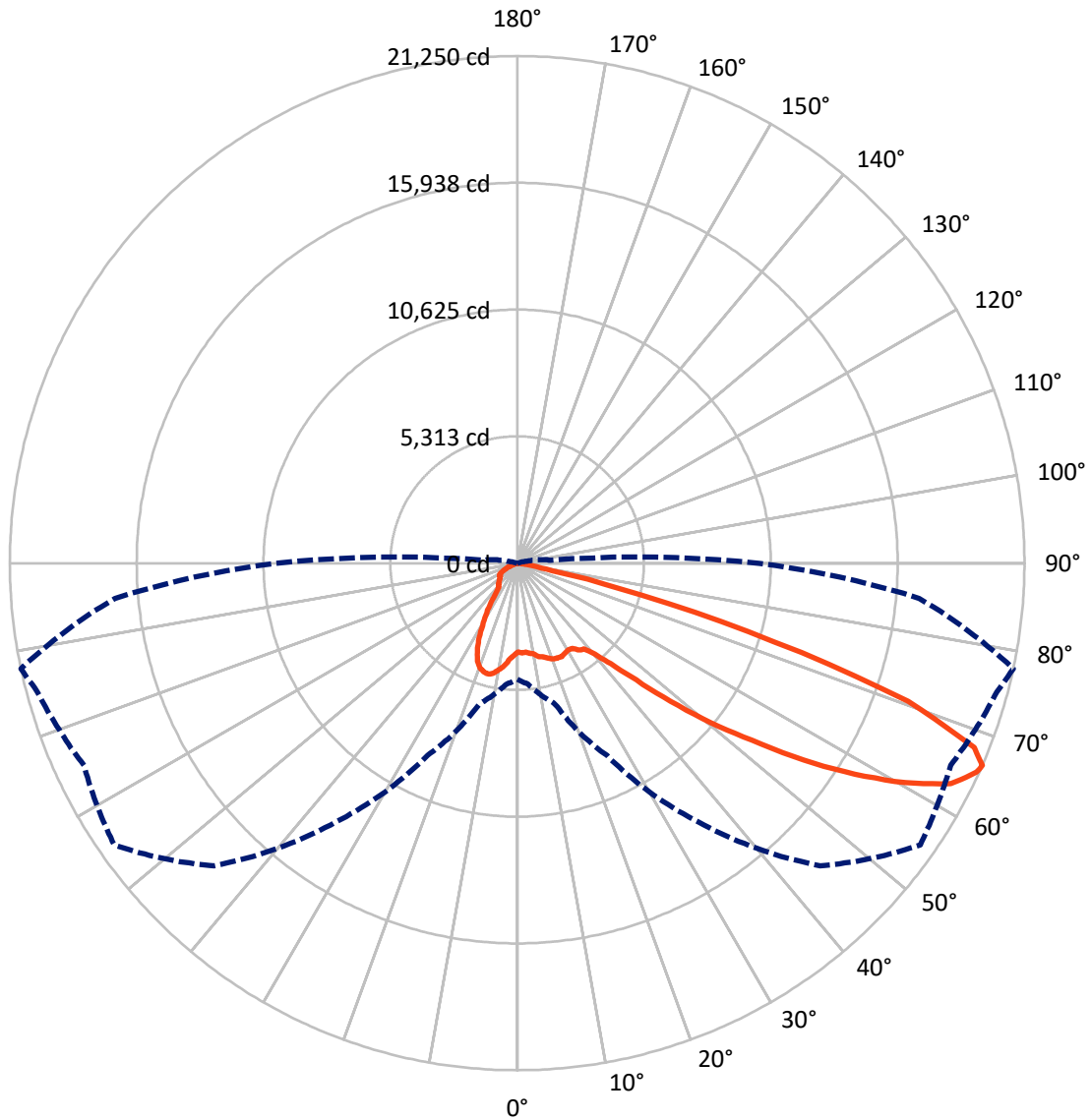
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type 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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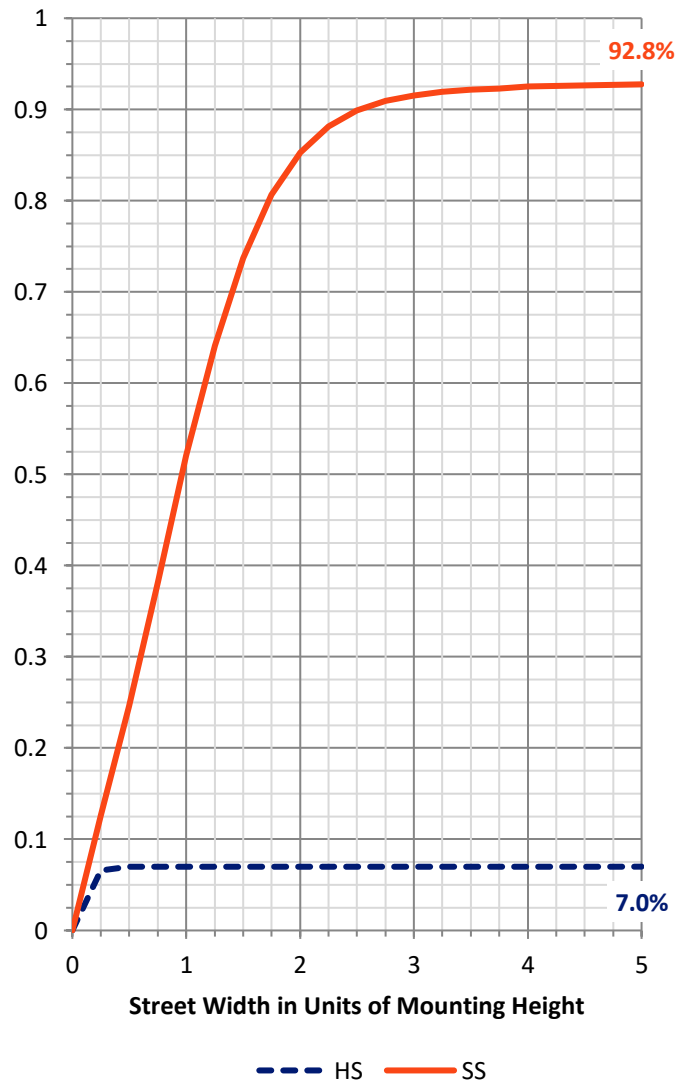
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1634.2	0.0	1634.2
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	21611.0	0.0	21611.0
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	23245.3	0.0	23245.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	340.6	1.5
10°-20°	768.9	3.3
20°-30°	1099.0	4.7
30°-40°	1881.2	8.1
40°-50°	3395.3	14.6
50°-60°	5806.4	25.0
60°-70°	7146.6	30.7
70°-80°	2701.8	11.6
80°-90°	105.5	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°	23245.3	100.0
0°-180°	23245.3	100.0

**Coefficient of Utilization**

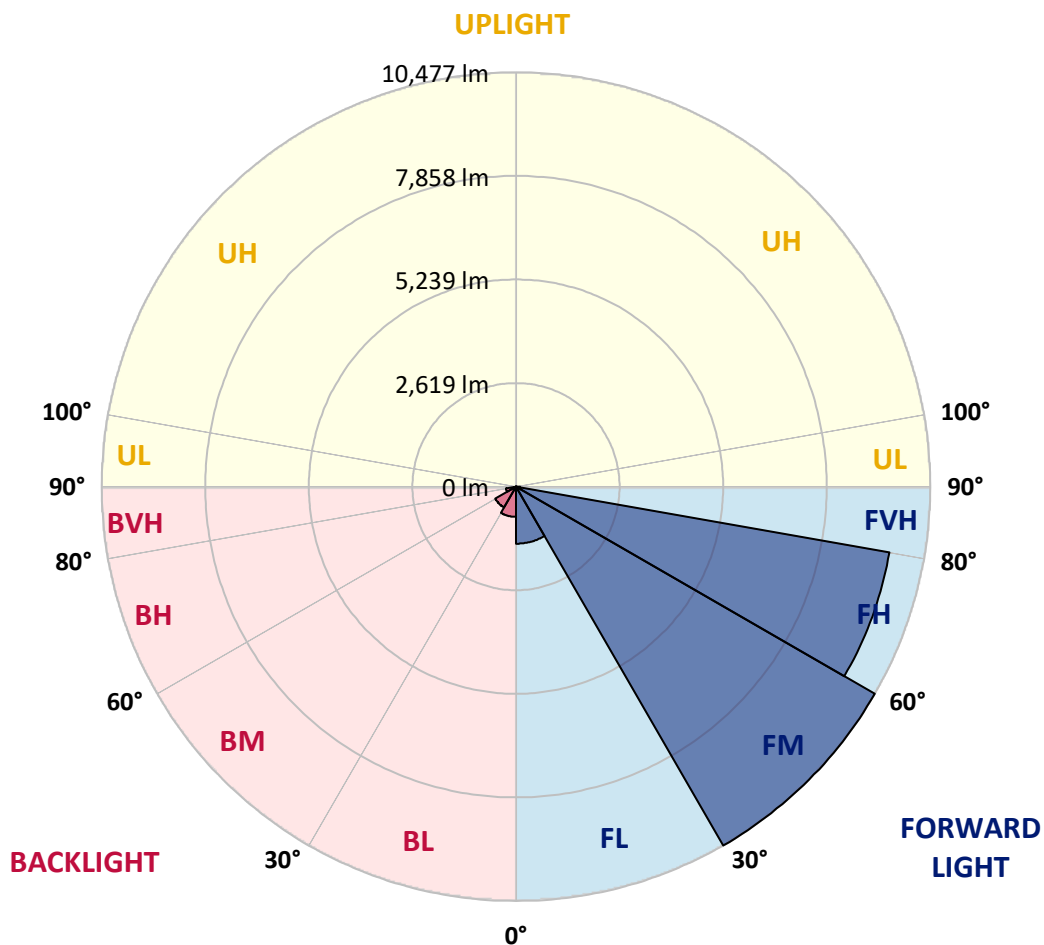


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1443.1	6.2			
FM (30°-60°)	10477.1	45.1			
FH (60°-80°)	9589.5	41.3			G4/12000
FVH (80°-90°)	101.3	0.4			G2/225
BL (0°-30°)	765.4	3.3	B2/1000		
BM (30°-60°)	605.7	2.6	B1/1000		
BH (60°-80°)	258.9	1.1	B1/500		G1/500
BVH (80°-90°)	4.2	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°	3723.1	3723.1	3723.1	3723.1	3723.1	3723.1	3723.1	3723.1	3723.1	3723.1	3723.1
2.5°	3424.6	3393.0	3424.6	3470.2	3494.8	3515.9	3589.7	3652.9	3719.6	3765.3	3751.2
5°	3175.2	3234.9	3241.9	3256.0	3294.6	3421.1	3463.2	3572.1	3737.2	3751.2	3814.5
7.5°	2978.5	2960.9	3006.6	3097.9	3196.3	3270.0	3393.0	3582.6	3754.7	3814.5	3937.4
10°	2694.0	2729.1	2778.3	2869.6	2989.0	3171.7	3389.5	3600.2	3846.1	3867.1	4095.5
12.5°	2539.5	2504.3	2581.6	2676.4	2880.2	3048.8	3315.7	3568.6	3902.3	4018.2	4281.6
15°	2413.0	2430.6	2504.3	2567.6	2736.2	2950.4	3263.0	3645.9	3997.1	4077.9	4478.3
17.5°	2360.3	2349.8	2406.0	2469.2	2676.4	2918.8	3241.9	3649.4	4081.4	4186.8	4611.8
20°	2384.9	2406.0	2388.4	2448.1	2578.1	2824.0	3273.6	3716.1	4144.6	4288.6	4755.8
22.5°	2771.3	2743.2	2602.7	2490.3	2497.3	2785.3	3249.0	3758.3	4200.8	4316.7	4854.1
25°	3779.3	3628.3	3280.6	2848.6	2564.0	2680.0	3220.9	3744.2	4190.3	4334.3	4913.8
27.5°	4794.4	4664.5	4323.8	3652.9	2834.5	2637.8	3122.5	3754.7	4137.6	4271.1	4815.5
30°	5865.7	5935.9	5430.2	4632.8	3544.0	2869.6	3059.3	3698.6	4102.5	4214.9	4836.6
32.5°	6965.1	6937.0	6631.4	5767.4	4559.1	3382.4	3161.2	3754.7	4148.1	4257.0	4959.5
35°	7825.6	7727.3	7418.2	6638.4	5398.6	4155.2	3512.4	4021.7	4348.3	4478.3	5135.1
37.5°	8250.6	8292.8	8113.6	7435.7	6318.8	4871.7	3951.4	4021.7	4411.6	4562.6	5419.6
40°	8580.8	8707.2	8640.5	8422.7	7232.0	5679.5	4436.2	4271.1	4731.2	5015.7	5953.5
42.5°	8977.7	8918.0	9311.4	9111.2	8426.2	6698.1	5286.2	4864.7	5486.4	5760.3	6754.3
45°	9188.4	9416.7	9715.3	9971.7	9532.6	7969.6	6396.1	5914.9	6641.9	6989.7	7945.0
47.5°	9729.3	9820.7	10305.4	10628.5	10431.8	9423.8	8082.0	7449.8	8096.1	8644.0	9307.8
50°	10045.4	9922.5	10600.4	11092.1	11204.5	10628.5	9592.3	9100.6	9824.2	10523.1	10582.8
52.5°	9768.0	10119.2	10797.1	11678.7	11991.3	11703.3	11366.1	11151.9	11661.2	12307.4	12019.4
55°	8795.0	9033.9	10684.7	12321.5	13329.5	13196.1	13508.7	13368.2	13881.0	14565.9	13698.3
57.5°	8011.8	8310.3	9760.9	12655.2	14576.4	14969.8	15363.2	15275.4	15893.6	16683.9	15120.9
60°	7523.5	7695.7	9093.6	12570.9	15314.0	16803.3	17691.9	17073.8	18081.8	18685.9	16234.3
62.5°	6677.1	6785.9	8120.7	11453.9	15535.3	18099.4	19606.2	18766.7	19641.3	20378.9	17035.1
65°	5352.9	5647.9	6750.8	9782.0	14074.2	18338.2	20800.4	19813.4	20659.9	21144.6	17277.5
66°	4871.7	5085.9	6097.5	8896.9	13241.7	17941.3	20600.2	20031.2	20807.4	21250.0	16905.2
67.5°	4042.8	4228.9	5033.3	7635.9	11538.2	17066.7	20740.7	19883.7	20919.8	20649.4	16406.4
70°	2676.4	2795.9	3442.1	5163.2	8036.4	13961.8	19237.4	18731.6	18390.9	17375.8	12827.3
72.5°	1250.4	1422.5	2149.6	3129.5	4713.6	9768.0	15686.4	15008.5	12897.5	11274.8	8092.6
75°	565.5	642.8	1180.2	1794.8	2114.5	5061.4	10119.2	9139.3	6420.7	5331.8	3544.0
77.5°	305.6	347.7	576.0	853.5	769.2	1773.8	5008.7	4165.7	2023.1	1482.2	1029.1
80°	235.3	277.5	481.2	488.2	284.5	460.1	1861.6	1289.0	505.8	382.9	245.9
82.5°	122.9	175.6	379.3	316.1	144.0	186.2	576.0	358.3	158.1	126.4	105.4
85°	49.2	77.3	214.3	210.7	84.3	63.2	161.6	108.9	63.2	52.7	49.2
87.5°	3.5	3.5	115.9	80.8	52.7	17.6	24.6	24.6	31.6	28.1	35.1
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°	3723.1	3723.1	3723.1	3723.1	3723.1	3723.1	3723.1	3723.1	3723.1	3723.1	3723.1
2.5°	3814.5	3856.6	3863.6	3979.5	4004.1	3979.5	4042.8	4032.2	4060.3	4039.3	4000.6
5°	3902.3	3962.0	4077.9	4165.7	4165.7	4095.5	4039.3	3965.5	3856.6	3828.5	3807.4
7.5°	4053.3	4243.0	4348.3	4292.1	4179.7	3916.3	3551.0	3284.1	3059.3	2975.0	2936.4
10°	4320.2	4425.6	4548.6	4320.2	3853.1	3294.6	2680.0	2276.0	1959.9	1889.7	1837.0
12.5°	4492.4	4660.9	4731.2	4165.7	3249.0	2416.5	1749.2	1292.6	1071.3	902.7	874.6
15°	4717.1	4910.3	4766.3	3747.7	2560.5	1584.1	906.2	565.5	460.1	432.0	432.0
17.5°	4871.7	5082.4	4622.3	3227.9	1815.9	843.0	449.6	389.9	382.9	386.4	379.3
20°	5142.1	5268.6	4404.5	2623.8	1085.3	432.0	361.8	347.7	340.7	351.2	344.2
22.5°	5244.0	5359.9	4049.8	1900.2	488.2	288.0	270.5	259.9	266.9	263.4	259.9
25°	5237.0	5296.7	3466.7	1088.8	144.0	112.4	101.9	101.9	94.8	98.3	94.8
27.5°	5289.7	5142.1	2813.4	323.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	5317.8	4892.8	2002.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5331.8	4762.8	1289.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	5440.7	4502.9	551.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5514.5	4169.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5820.0	4063.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6216.9	3867.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6768.4	3575.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7499.0	3403.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8043.4	3133.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8735.3	2971.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9557.2	2978.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10305.4	2929.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10688.2	2504.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10607.4	2026.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10326.4	1591.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	10133.3	1408.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9546.7	1127.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7597.3	772.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4833.1	474.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2226.9	217.8	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	699.0	133.5	28.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	182.6	84.3	28.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	94.8	59.7	24.6	10.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	59.7	24.6	10.5	7.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	52.7	14.0	7.0	7.0	3.5	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)