

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: P482786

Luminaire Tested: **IFLD-L-SA7D-730-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482786  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-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**

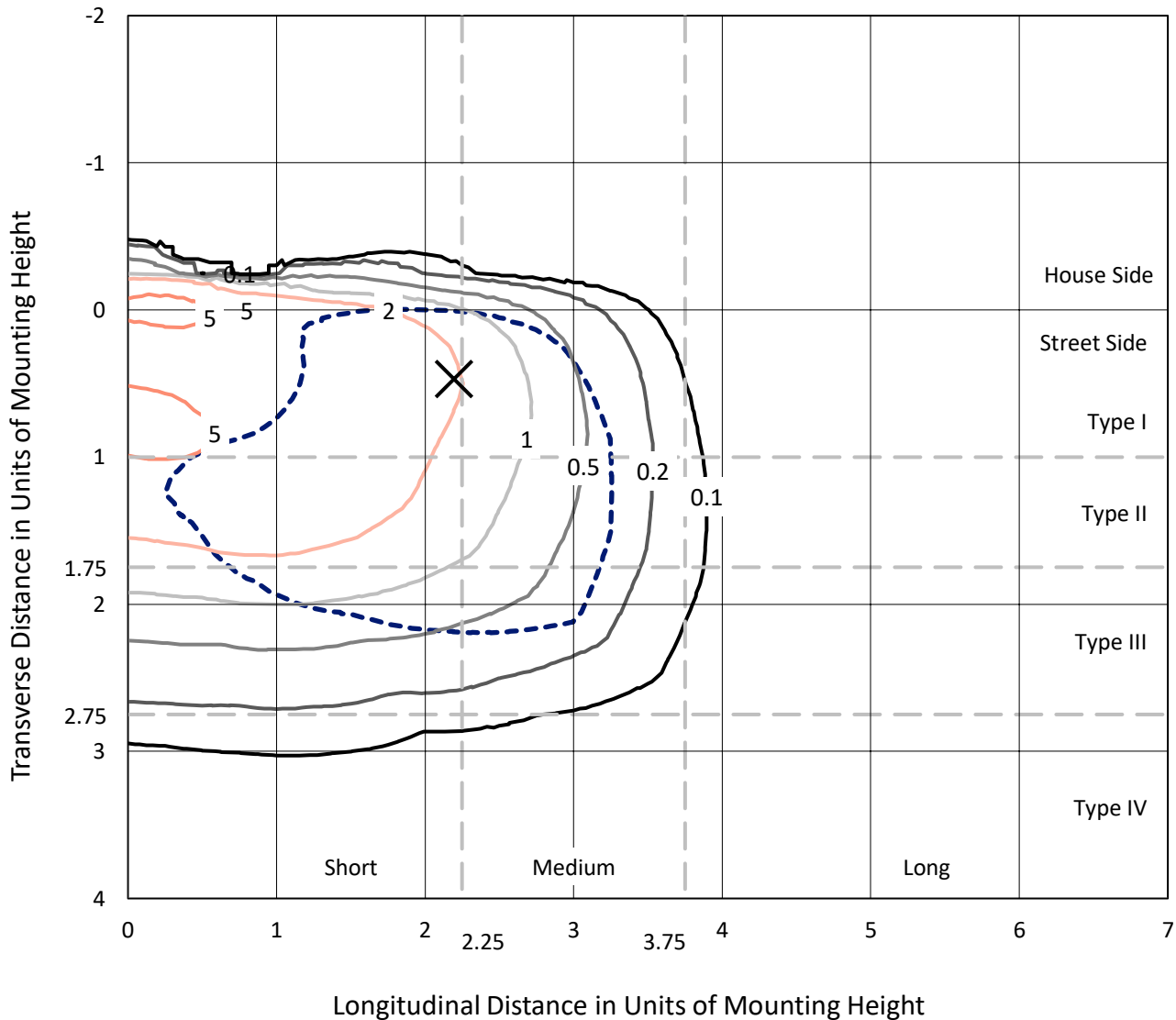
Lumens per Lamp: N/A  
Luminaire Lumens: 31839.8 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6  
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

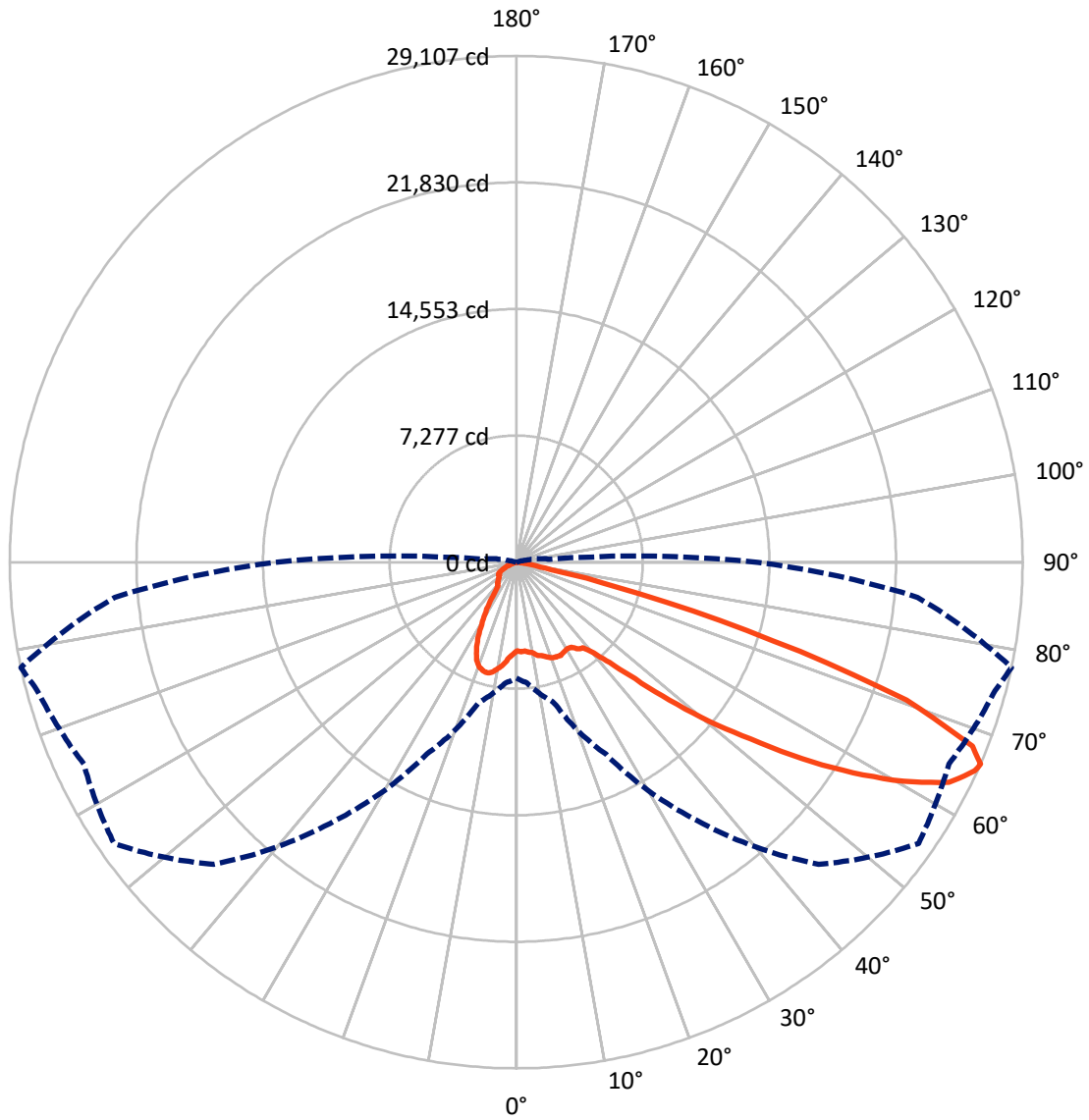
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 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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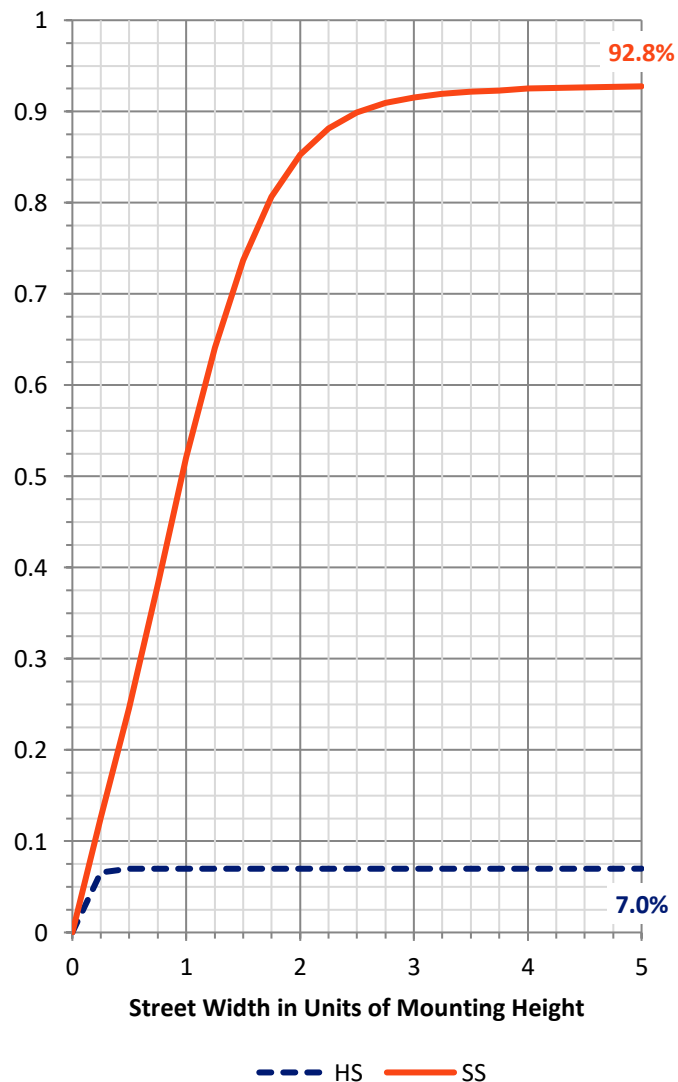
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2238.5	0.0	2238.5
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	29601.4	0.0	29601.4
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	31839.8	0.0	31839.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	466.5	1.5
10°-20°	1053.2	3.3
20°-30°	1505.3	4.7
30°-40°	2576.7	8.1
40°-50°	4650.6	14.6
50°-60°	7953.2	25.0
60°-70°	9789.0	30.7
70°-80°	3700.8	11.6
80°-90°	144.6	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°	31839.8	100.0
0°-180°	31839.8	100.0

**Coefficient of Utilization**

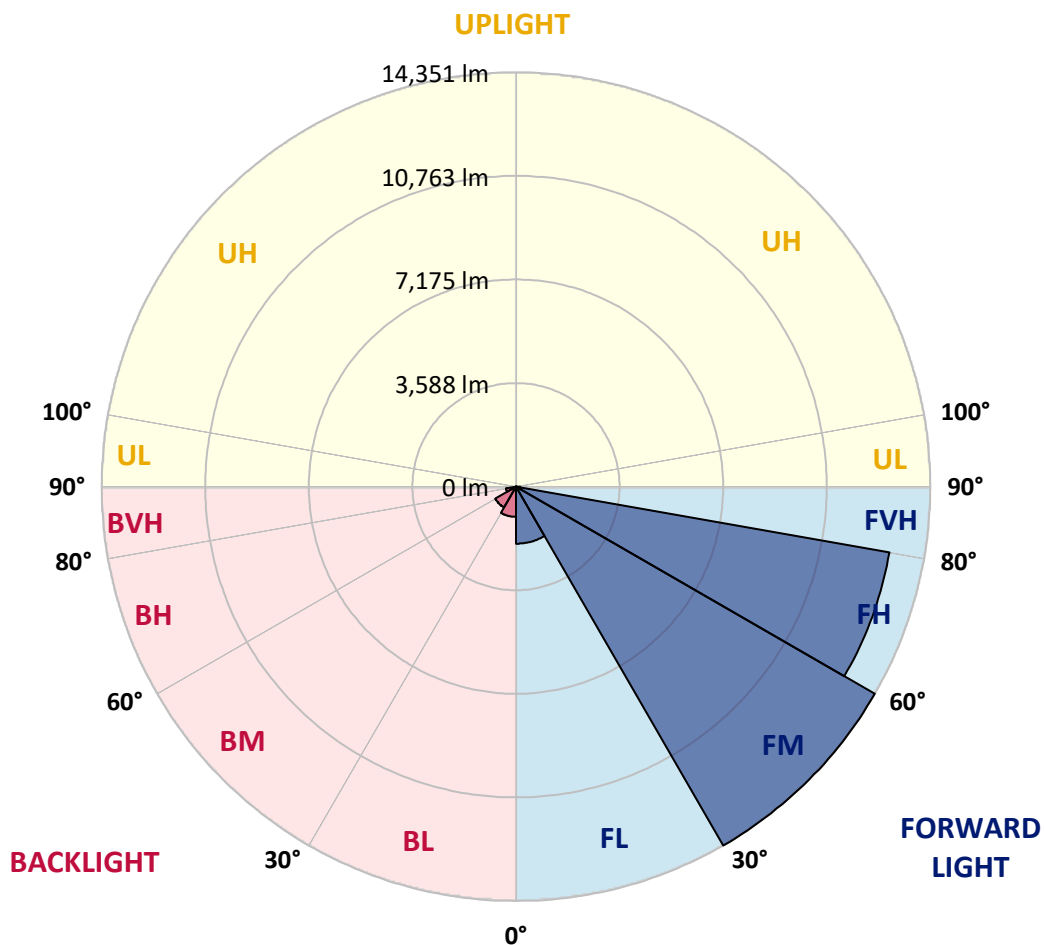


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1976.6	6.2			
FM (30°-60°)	14350.9	45.1			
FH (60°-80°)	13135.1	41.3			G5
FVH (80°-90°)	138.8	0.4			G2/225
BL (0°-30°)	1048.4	3.3	B3/2500		
BM (30°-60°)	829.7	2.6	B1/1000		
BH (60°-80°)	354.6	1.1	B1/500		G1/500
BVH (80°-90°)	5.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5099.7	5099.7	5099.7	5099.7	5099.7	5099.7	5099.7	5099.7	5099.7	5099.7	5099.7
2.5°	4690.8	4647.5	4690.8	4753.3	4787.0	4815.9	4916.9	5003.5	5094.9	5157.4	5138.2
5°	4349.2	4431.0	4440.6	4459.8	4512.8	4686.0	4743.7	4892.8	5119.0	5138.2	5224.8
7.5°	4079.8	4055.7	4118.3	4243.3	4378.1	4479.1	4647.5	4907.3	5143.0	5224.8	5393.2
10°	3690.1	3738.2	3805.5	3930.6	4094.2	4344.4	4642.7	4931.3	5268.1	5297.0	5609.7
12.5°	3478.4	3430.3	3536.1	3666.0	3945.1	4176.0	4541.6	4888.0	5345.1	5503.8	5864.7
15°	3305.2	3329.2	3430.3	3516.9	3747.8	4041.3	4469.5	4993.9	5475.0	5585.6	6134.1
17.5°	3233.0	3218.6	3295.6	3382.2	3666.0	3998.0	4440.6	4998.7	5590.4	5734.8	6316.9
20°	3266.7	3295.6	3271.5	3353.3	3531.3	3868.1	4483.9	5090.1	5677.0	5874.3	6514.2
22.5°	3795.9	3757.4	3565.0	3411.0	3420.7	3815.2	4450.2	5147.8	5754.0	5912.8	6648.9
25°	5176.7	4969.8	4493.5	3901.8	3512.1	3670.8	4411.7	5128.6	5739.6	5936.8	6730.7
27.5°	6567.1	6389.1	5922.4	5003.5	3882.5	3613.1	4277.0	5143.0	5667.4	5850.2	6595.9
30°	8034.4	8130.7	7437.9	6345.8	4854.3	3930.6	4190.4	5066.0	5619.3	5773.3	6624.8
32.5°	9540.3	9501.8	9083.3	7899.7	6244.7	4633.0	4329.9	5143.0	5681.8	5831.0	6793.2
35°	10719.0	10584.3	10160.9	9092.9	7394.6	5691.5	4811.0	5508.6	5956.1	6134.1	7033.7
37.5°	11301.1	11358.9	11113.5	10185.0	8655.1	6672.9	5412.4	5508.6	6042.7	6249.5	7423.4
40°	11753.4	11926.6	11835.2	11536.9	9905.9	7779.5	6076.4	5850.2	6480.5	6870.2	8154.7
42.5°	12297.0	12215.2	12754.1	12479.9	11541.7	9174.7	7240.6	6663.3	7514.9	7890.1	9251.6
45°	12585.7	12898.4	13307.4	13658.6	13057.2	10916.3	8760.9	8101.8	9097.7	9574.0	10882.6
47.5°	13326.6	13451.7	14115.6	14558.2	14288.8	12908.0	11070.2	10204.2	11089.5	11840.0	12749.3
50°	13759.6	13591.2	14519.7	15193.3	15347.2	14558.2	13139.0	12465.4	13456.5	14413.9	14495.7
52.5°	13379.5	13860.6	14789.2	15996.7	16424.9	16030.4	15568.5	15275.1	15972.7	16857.9	16463.4
55°	12046.9	12374.0	14635.2	16877.1	18257.9	18075.1	18503.3	18310.8	19013.3	19951.4	18763.1
57.5°	10974.0	11382.9	13369.9	17334.2	19965.8	20504.7	21043.5	20923.2	21770.0	22852.5	20711.6
60°	10305.3	10541.0	12455.8	17218.7	20976.2	23016.0	24233.2	23386.5	24767.3	25594.8	22236.7
62.5°	9145.8	9294.9	11123.1	15688.8	21279.3	24791.3	26855.3	25705.4	26903.4	27913.7	23333.6
65°	7332.0	7736.2	9246.8	13398.8	19277.9	25118.5	28491.0	27139.1	28298.6	28962.5	23665.5
66°	6672.9	6966.4	8352.0	12186.4	18137.6	24574.8	28216.8	27437.4	28500.6	29106.8	23155.6
67.5°	5537.5	5792.5	6894.2	10459.2	15804.3	23376.9	28409.2	27235.3	28654.6	28284.1	22472.4
70°	3666.0	3829.6	4714.8	7072.2	11007.7	19123.9	26350.1	25657.3	25190.6	23800.2	17569.9
72.5°	1712.7	1948.5	2944.4	4286.6	6456.4	13379.5	21486.1	20557.6	17666.2	15443.5	11084.6
75°	774.6	880.4	1616.5	2458.4	2896.2	6932.7	13860.6	12518.3	8794.6	7303.2	4854.3
77.5°	418.6	476.3	789.0	1169.1	1053.6	2429.6	6860.6	5705.9	2771.2	2030.3	1409.6
80°	322.3	380.1	659.1	668.7	389.7	630.2	2549.9	1765.7	692.8	524.4	336.8
82.5°	168.4	240.6	519.6	433.0	197.3	255.0	789.0	490.7	216.5	173.2	144.3
85°	67.4	105.8	293.5	288.7	115.5	86.6	221.3	149.1	86.6	72.2	67.4
87.5°	4.8	4.8	158.8	110.7	72.2	24.1	33.7	33.7	43.3	38.5	48.1
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°	5099.7	5099.7	5099.7	5099.7	5099.7	5099.7	5099.7	5099.7	5099.7	5099.7	5099.7
2.5°	5224.8	5282.5	5292.2	5450.9	5484.6	5450.9	5537.5	5523.1	5561.6	5532.7	5479.8
5°	5345.1	5426.9	5585.6	5705.9	5705.9	5609.7	5532.7	5431.7	5282.5	5244.0	5215.2
7.5°	5551.9	5811.7	5956.1	5879.1	5725.1	5364.3	4864.0	4498.3	4190.4	4075.0	4022.0
10°	5917.6	6061.9	6230.3	5917.6	5277.7	4512.8	3670.8	3117.6	2684.6	2588.3	2516.2
12.5°	6153.3	6384.3	6480.5	5705.9	4450.2	3310.0	2395.9	1770.5	1467.4	1236.4	1198.0
15°	6461.2	6725.8	6528.6	5133.4	3507.3	2169.8	1241.2	774.6	630.2	591.8	591.8
17.5°	6672.9	6961.6	6331.3	4421.4	2487.3	1154.7	615.8	534.0	524.4	529.2	519.6
20°	7043.4	7216.6	6033.1	3593.9	1486.6	591.8	495.5	476.3	466.7	481.1	471.5
22.5°	7182.9	7341.7	5547.1	2602.8	668.7	394.5	370.5	356.0	365.6	360.8	356.0
25°	7173.3	7255.1	4748.5	1491.4	197.3	154.0	139.5	139.5	129.9	134.7	129.9
27.5°	7245.4	7043.4	3853.6	442.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	7283.9	6701.8	2742.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	7303.2	6523.8	1765.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	7452.3	6167.8	755.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	7553.3	5710.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7971.9	5566.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8515.6	5297.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	9270.9	4897.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	10271.6	4661.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	11017.3	4291.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11965.1	4070.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	13090.9	4079.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	14115.6	4012.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	14640.0	3430.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	14529.4	2776.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	14144.5	2179.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	13879.9	1929.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13076.4	1544.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10406.3	1058.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6620.0	649.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3050.2	298.3	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	957.4	182.8	38.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	250.2	115.5	38.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	129.9	81.8	33.7	14.4	9.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	81.8	33.7	14.4	9.6	9.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	72.2	19.2	9.6	9.6	4.8	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)