

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: P481655

Luminaire Tested: **IFLD-L-SA7D-735-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481655  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-735-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

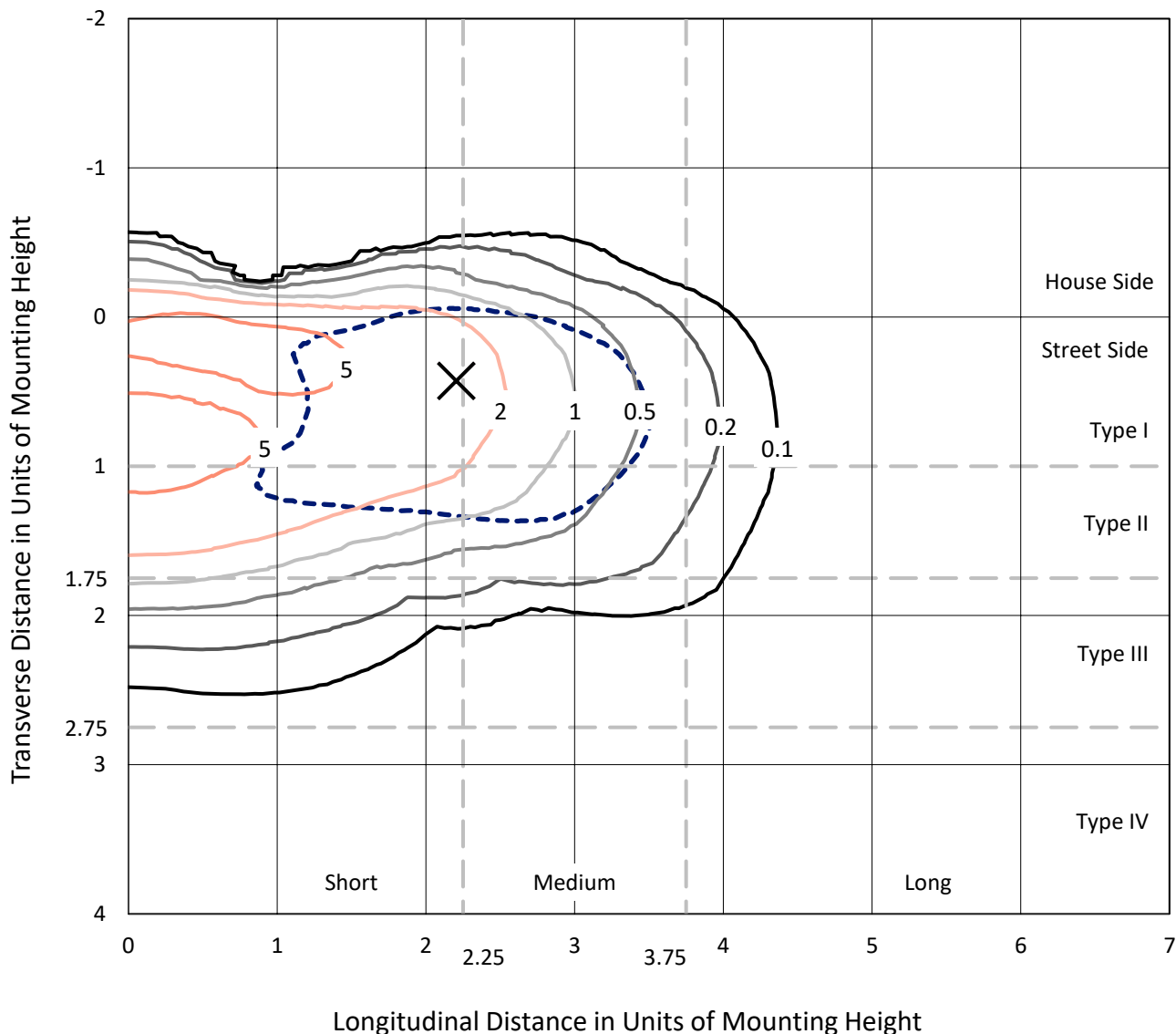
Lumens per Lamp: N/A  
Luminaire Lumens: 34646.4 lumens  
Efficiency: N/A  
Efficacy: 82.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

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

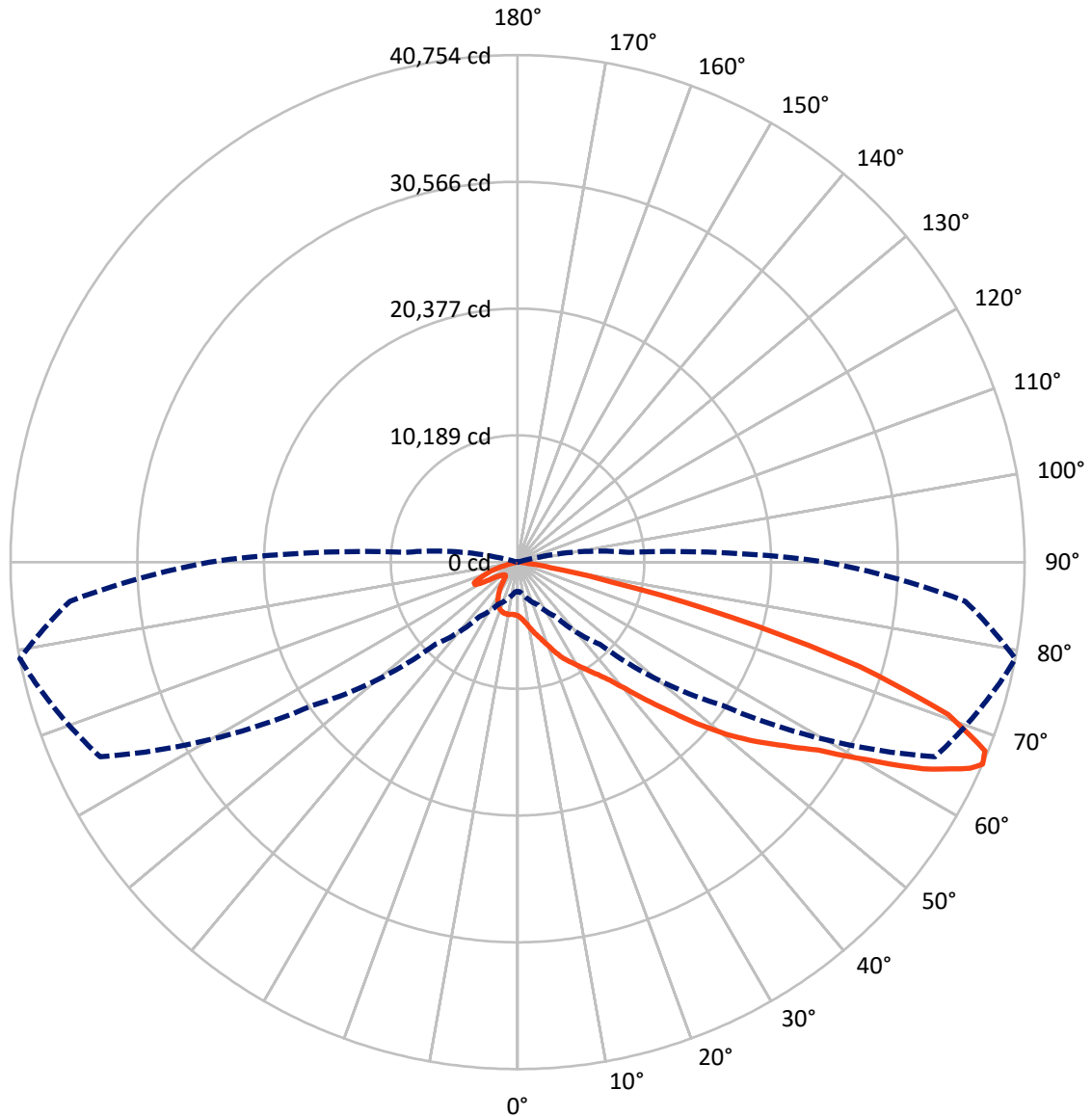
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2601.5	0.0	2601.5
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	32044.9	0.0	32044.9
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	34646.4	0.0	34646.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	407.6	1.2
10°-20°	1121.9	3.2
20°-30°	1863.8	5.4
30°-40°	3201.2	9.2
40°-50°	5799.4	16.7
50°-60°	9167.2	26.5
60°-70°	9328.4	26.9
70°-80°	3557.4	10.3
80°-90°	199.4	0.6
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°	34646.4	100.0
0°-180°	34646.4	100.0

**Coefficient of Utilization**

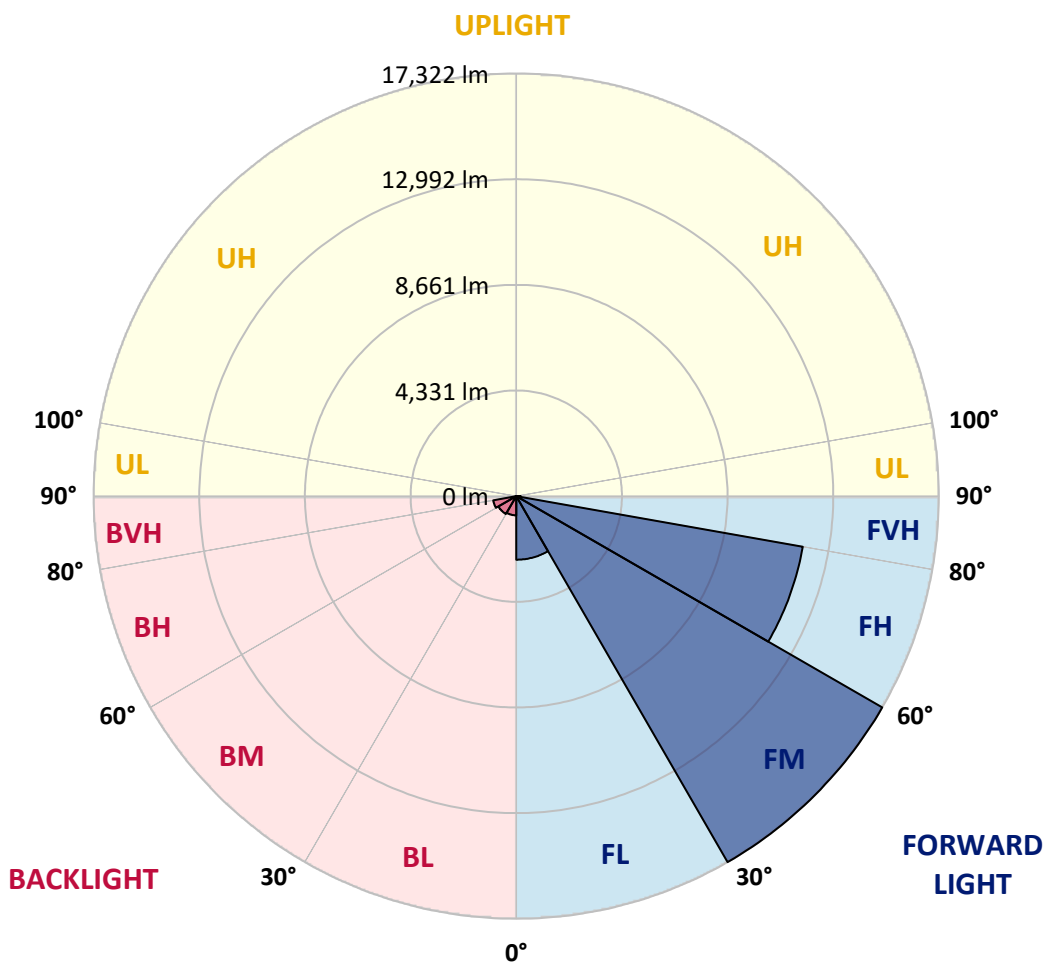


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2606.6	7.5			
FM (30°-60°)	17322.4	50.0			
FH (60°-80°)	11926.7	34.4			G4/12000
FVH (80°-90°)	189.2	0.5			G2/225
BL (0°-30°)	786.7	2.3	B2/1000		
BM (30°-60°)	845.5	2.4	B1/1000		
BH (60°-80°)	959.0	2.8	B2/1000		G2/1000
BVH (80°-90°)	10.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4310.4	4310.4	4310.4	4310.4	4310.4	4310.4	4310.4	4310.4	4310.4	4310.4	4310.4
2.5°	4882.0	4876.6	4855.2	4817.9	4769.8	4753.8	4684.3	4588.2	4534.8	4476.0	4449.3
5°	5218.5	5191.7	5255.8	5229.1	5239.8	5111.6	5026.2	4956.7	4753.8	4673.6	4545.4
7.5°	5293.2	5319.9	5314.6	5357.3	5400.1	5448.1	5389.4	5287.9	5084.9	4967.4	4828.5
10°	5293.2	5282.5	5325.3	5384.0	5506.9	5613.7	5773.9	5640.4	5485.5	5346.6	5095.6
12.5°	5197.1	5181.1	5223.8	5346.6	5565.6	5784.6	5960.9	6089.1	5870.1	5757.9	5432.1
15°	4903.3	4887.3	5063.6	5282.5	5571.0	5928.8	6297.4	6505.7	6356.2	6179.9	5816.7
17.5°	4540.1	4561.5	4748.4	5111.6	5571.0	5998.3	6468.3	6922.3	6901.0	6676.6	6297.4
20°	4417.3	4433.3	4620.2	4882.0	5405.4	6046.4	6735.4	7376.3	7504.5	7237.5	6740.7
22.5°	4652.3	4636.3	4652.3	4812.5	5293.2	6003.6	6911.6	7894.4	8124.1	7915.8	7322.9
25°	5453.5	5442.8	5309.3	5063.6	5229.1	5907.5	7002.4	8236.3	8765.1	8572.8	7793.0
27.5°	6628.6	6585.8	6377.5	5864.8	5528.2	5966.2	7152.0	8567.4	9325.9	9106.9	8214.9
30°	7889.1	7787.6	7515.2	6874.3	6302.7	6185.2	7237.5	8813.1	9950.8	9673.1	8583.5
32.5°	8759.7	8893.3	8807.8	8156.2	7280.2	6692.7	7376.3	9122.9	10527.7	10346.1	9213.7
35°	10105.7	10260.6	9902.8	9325.9	8444.6	7499.2	7670.1	9374.0	11414.4	11109.9	9801.3
37.5°	11804.3	11921.8	11665.4	10570.4	9641.1	8492.7	8273.7	9897.4	12178.2	12034.0	10554.4
40°	12658.9	13225.1	12861.9	11873.7	10874.9	9881.4	9272.5	10511.7	13508.2	13390.6	11596.0
42.5°	13839.3	14122.4	13935.5	13203.7	12162.1	11366.3	10506.3	11708.1	15121.2	15121.2	13006.1
45°	15089.2	15099.9	15089.2	14491.0	13566.9	13155.6	12172.8	13209.0	16857.2	17049.4	14693.9
47.5°	16114.7	16435.2	16408.5	16050.6	15334.9	15180.0	13839.3	14918.3	19036.4	19372.9	16339.0
50°	16643.5	17001.4	17108.2	17295.1	17263.1	17588.9	15660.7	16899.9	20916.5	21744.4	18454.2
52.5°	16499.3	16526.0	17183.0	17920.1	19095.2	20008.5	17856.0	19148.6	23117.2	23934.4	20088.6
55°	15318.9	15217.4	16568.7	17412.6	19842.9	21488.1	20895.2	21952.8	24831.7	26076.2	21776.5
57.5°	12728.3	12755.0	14004.9	15719.5	19287.4	22075.6	24142.7	25616.9	27235.3	28490.5	24148.0
60°	8786.4	8754.4	10153.8	12135.4	16023.9	20980.6	26012.1	30365.3	30450.8	32229.4	28405.0
62.5°	4940.7	4951.4	6014.3	7707.5	11211.4	17145.6	25921.3	35407.5	35044.3	36603.9	33244.3
65°	2798.8	2868.3	3600.0	4566.8	6714.0	11510.5	22294.6	37415.8	38585.6	39974.3	36182.0
66°	2366.2	2414.3	3039.2	3771.0	5357.3	9336.6	20067.3	37025.9	39696.6	40754.1	36123.2
67.5°	1832.1	1896.2	2419.6	2991.1	3931.2	6463.0	16152.1	35087.0	39899.5	40519.1	35103.0
70°	1255.2	1297.9	1698.5	2270.1	2686.7	3306.3	9657.1	29008.6	36203.3	36726.8	30509.5
72.5°	881.3	902.7	1191.1	1719.9	2067.1	1890.8	4791.1	20638.8	27705.3	28725.5	23731.4
75°	635.6	657.0	817.2	1233.8	1613.1	1239.2	2195.3	13182.3	16990.7	17791.9	14293.3
77.5°	459.4	486.1	555.5	795.9	1169.7	870.6	1078.9	6884.9	8012.0	7873.1	6147.8
80°	277.7	304.5	411.3	512.8	854.6	614.2	592.9	2873.6	2841.6	2697.4	1933.6
82.5°	128.2	149.6	219.0	347.2	598.2	427.3	283.1	1025.5	897.3	822.6	544.8
85°	37.4	48.1	128.2	261.7	304.5	208.3	170.9	352.5	368.5	315.1	181.6
87.5°	0.0	5.3	58.8	64.1	90.8	69.4	64.1	90.8	170.9	138.9	58.8
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°	4310.4	4310.4	4310.4	4310.4	4310.4	4310.4	4310.4	4310.4	4310.4	4310.4	4310.4
2.5°	4353.2	4315.8	4225.0	4086.1	3963.2	3899.2	3808.3	3728.2	3685.5	3680.2	3674.8
5°	4460.0	4358.5	4139.5	3888.5	3701.5	3498.6	3359.7	3258.2	3162.1	3071.2	3124.7
7.5°	4604.2	4444.0	4086.1	3760.3	3354.3	3092.6	2846.9	2702.7	2617.2	2537.1	2526.4
10°	4828.5	4625.6	4048.7	3461.2	2996.5	2611.9	2360.9	2152.5	2035.0	1896.2	1949.6
12.5°	5133.0	4769.8	3909.8	3188.8	2590.5	2184.6	1826.7	1490.2	1303.3	1159.1	1164.4
15°	5437.4	4962.1	3781.6	2857.6	2222.0	1687.9	1164.4	934.7	881.3	849.3	859.9
17.5°	5736.6	5117.0	3584.0	2521.1	1800.0	1073.6	849.3	801.2	774.5	742.4	742.4
20°	6099.8	5218.5	3338.3	2211.3	1239.2	795.9	726.4	694.4	651.6	608.9	614.2
22.5°	6452.3	5303.9	3055.2	1816.0	833.2	689.0	608.9	566.2	528.8	486.1	486.1
25°	6804.8	5330.6	2686.7	1303.3	673.0	550.2	475.4	416.6	379.2	341.8	347.2
27.5°	7045.2	5165.0	2339.5	833.2	539.5	416.6	331.2	283.1	251.0	213.7	213.7
30°	7184.1	4860.6	1965.6	587.5	405.9	283.1	197.6	149.6	117.5	90.8	85.5
32.5°	7322.9	4614.9	1543.6	448.7	267.1	149.6	74.8	26.7	0.0	0.0	0.0
35°	7600.7	4337.1	1036.2	251.0	90.8	5.3	0.0	0.0	0.0	0.0	0.0
37.5°	7776.9	3952.6	475.4	37.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	8220.3	3760.3	117.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8941.3	3626.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	9731.9	3573.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	10784.1	3717.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	11895.1	4107.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	13112.9	4476.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	14175.8	4919.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	16130.7	5966.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	19640.0	8022.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	23592.5	9550.2	58.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	25040.0	9512.9	101.5	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	24783.6	8989.4	101.5	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	23453.7	7985.2	90.8	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	20142.1	6596.5	90.8	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	15356.2	5138.3	85.5	21.4	5.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	9267.2	2734.7	69.4	26.7	10.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3690.8	961.4	53.4	21.4	10.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	998.8	288.4	32.0	21.4	16.0	5.3	0.0	0.0	0.0	0.0	0.0
82.5°	261.7	106.8	26.7	21.4	10.7	5.3	0.0	0.0	0.0	0.0	0.0
85°	101.5	42.7	21.4	16.0	16.0	10.7	5.3	0.0	0.0	0.0	0.0
87.5°	32.0	16.0	16.0	10.7	10.7	5.3	5.3	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)