

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: P483024

Luminaire Tested: **IFLD-L-SA8C-830-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P483024  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-830-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

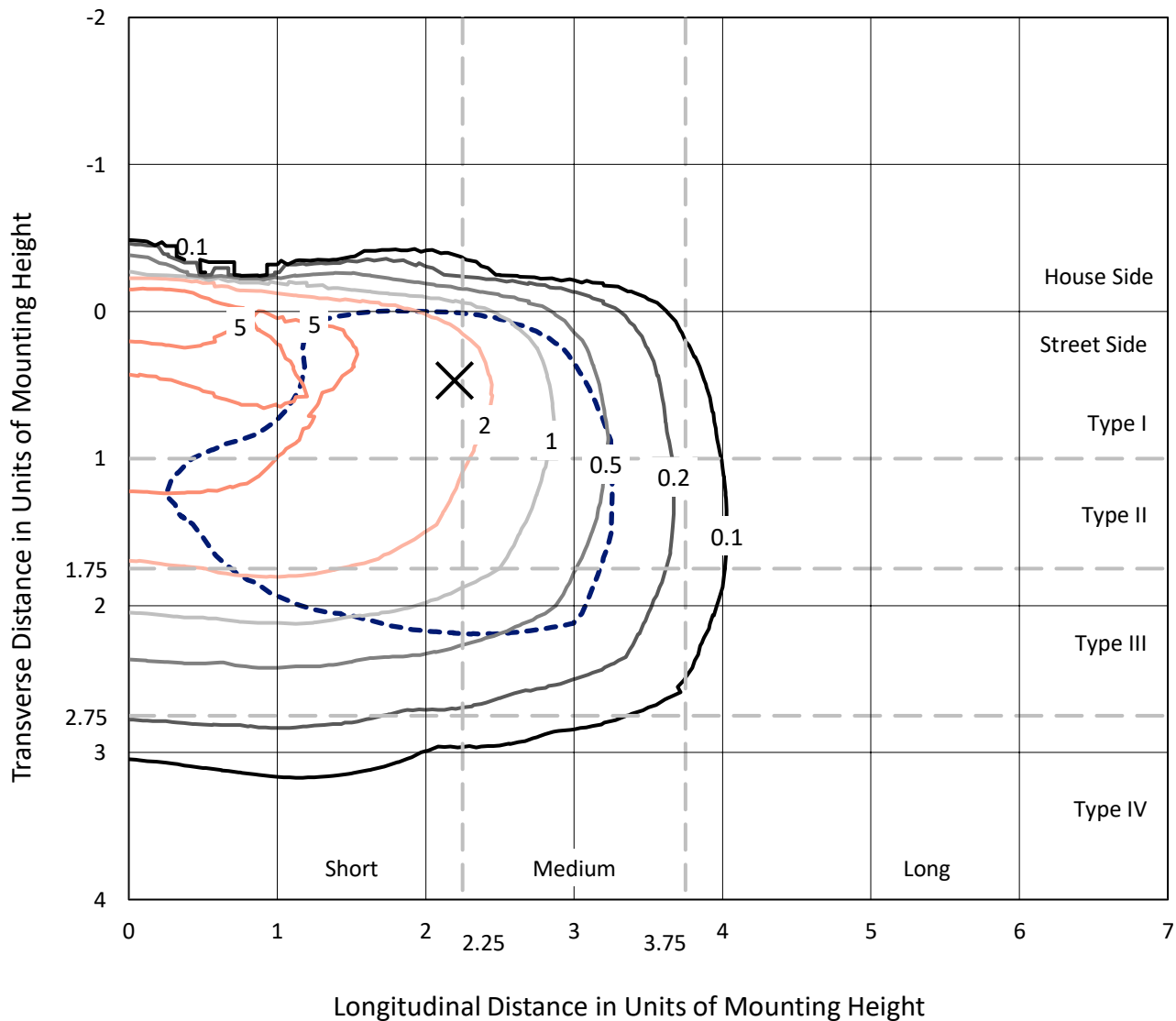
Lumens per Lamp: N/A  
Luminaire Lumens: 28857.4 lumens  
Efficiency: N/A  
Efficacy: 68.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 420.3  
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

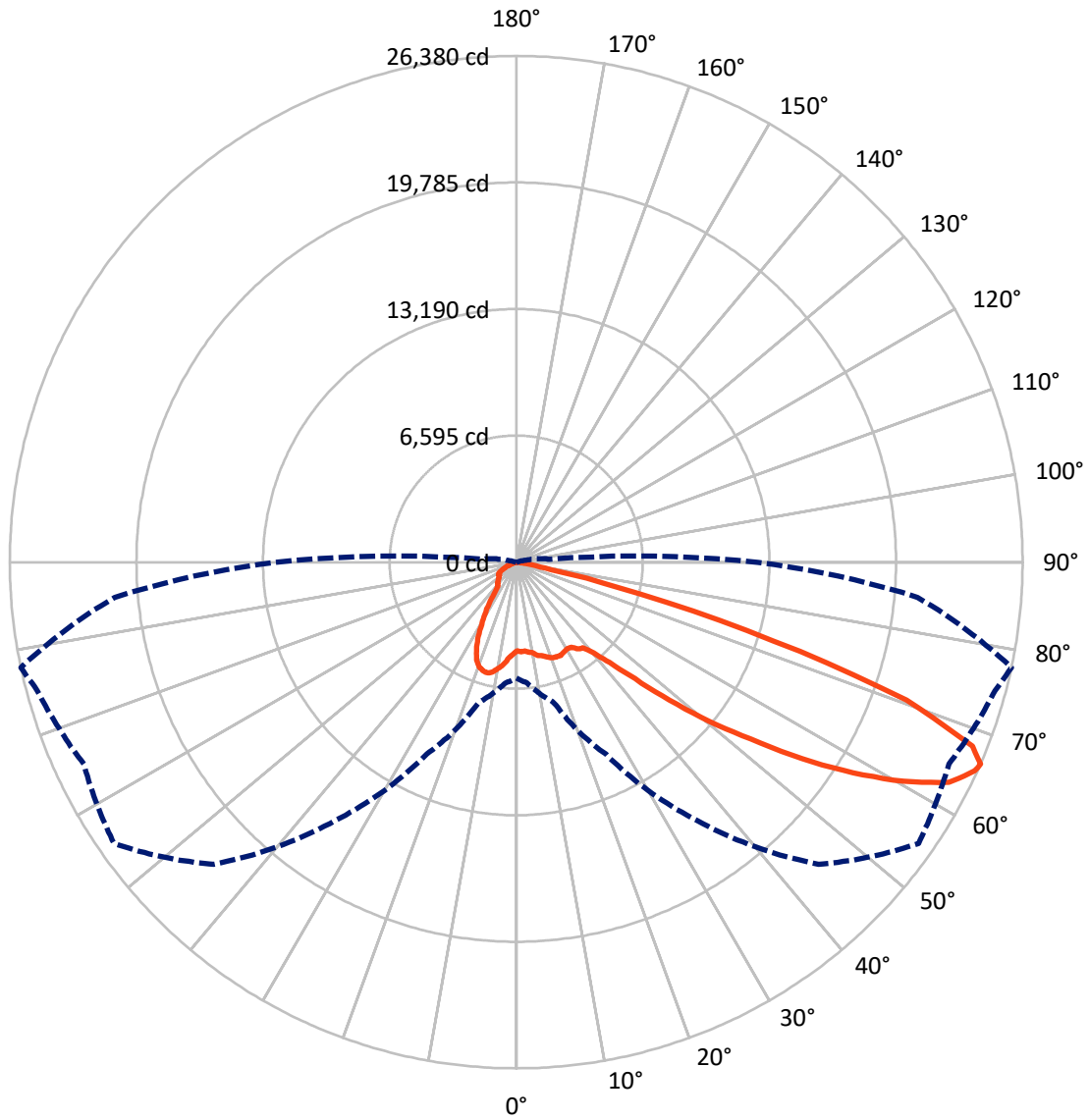
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	2028.8	0.0	2028.8
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	26828.6	0.0	26828.6
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	28857.4	0.0	28857.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	422.8	1.5
10°-20°	954.5	3.3
20°-30°	1364.3	4.7
30°-40°	2335.3	8.1
40°-50°	4215.0	14.6
50°-60°	7208.2	25.0
60°-70°	8872.0	30.7
70°-80°	3354.1	11.6
80°-90°	131.0	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°	28857.4	100.0
0°-180°	28857.4	100.0

**Coefficient of Utilization**



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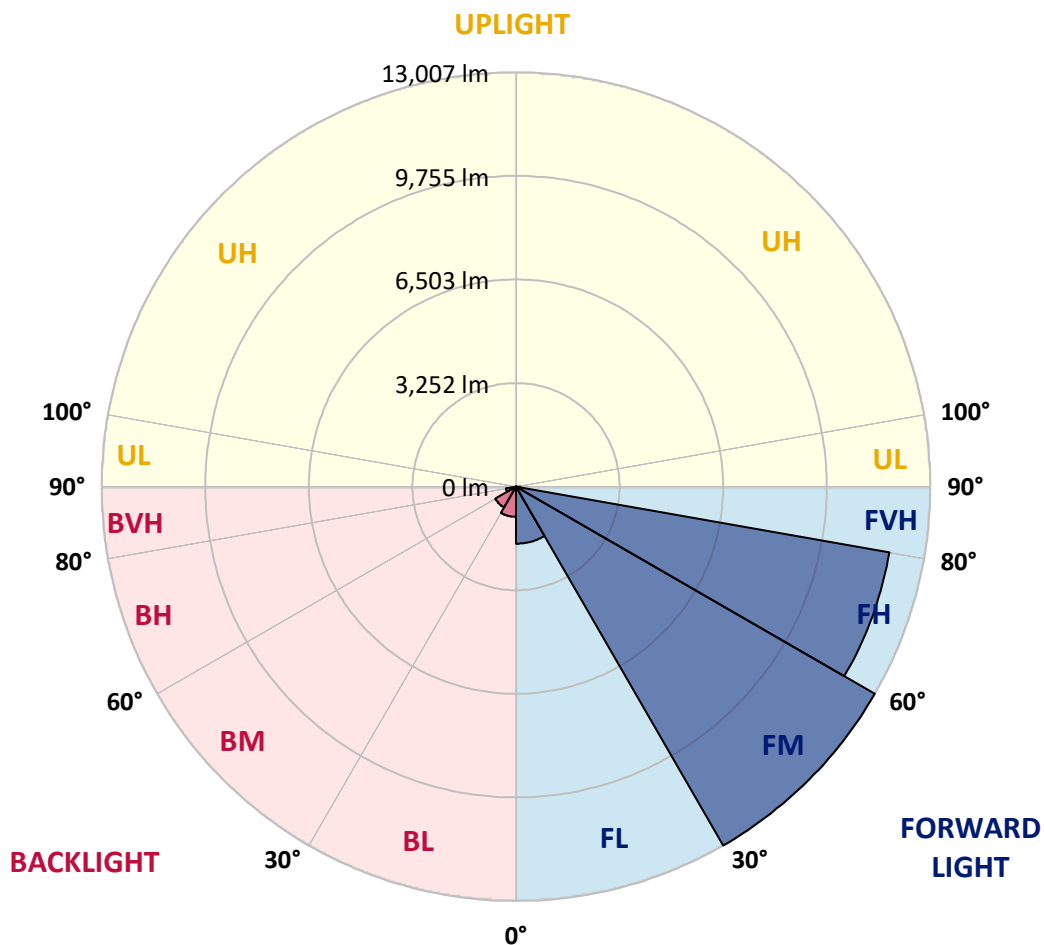
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1791.5	6.2			
FM (30°-60°)	13006.6	45.1			
FH (60°-80°)	11904.7	41.3			G4/12000
FVH (80°-90°)	125.8	0.4			G2/225
BL (0°-30°)	950.2	3.3	B2/1000		
BM (30°-60°)	751.9	2.6	B1/1000		
BH (60°-80°)	321.4	1.1	B1/500		G1/500
BVH (80°-90°)	5.3	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°	4622.0	4622.0	4622.0	4622.0	4622.0	4622.0	4622.0	4622.0	4622.0	4622.0	4622.0
2.5°	4251.4	4212.1	4251.4	4308.1	4338.6	4364.8	4456.3	4534.8	4617.7	4674.3	4656.9
5°	3941.8	4015.9	4024.6	4042.1	4090.1	4247.0	4299.4	4434.5	4639.5	4656.9	4735.4
7.5°	3697.6	3675.8	3732.5	3845.9	3968.0	4059.5	4212.1	4447.6	4661.3	4735.4	4888.0
10°	3344.4	3388.0	3449.1	3562.4	3710.7	3937.4	4207.8	4469.4	4774.6	4800.8	5084.2
12.5°	3152.6	3109.0	3204.9	3322.6	3575.5	3784.8	4116.2	4430.2	4844.4	4988.3	5315.3
15°	2995.6	3017.4	3109.0	3187.5	3396.8	3662.7	4050.8	4526.1	4962.1	5062.4	5559.5
17.5°	2930.2	2917.1	2986.9	3065.4	3322.6	3623.5	4024.6	4530.5	5066.8	5197.6	5725.2
20°	2960.7	2986.9	2965.1	3039.2	3200.5	3505.8	4063.9	4613.3	5145.3	5324.0	5904.0
22.5°	3440.4	3405.5	3231.1	3091.5	3100.2	3457.8	4033.4	4665.6	5215.0	5358.9	6026.1
25°	4691.8	4504.3	4072.6	3536.3	3183.1	3327.0	3998.5	4648.2	5202.0	5380.7	6100.2
27.5°	5951.9	5790.6	5367.6	4534.8	3518.8	3274.7	3876.4	4661.3	5136.5	5302.2	5978.1
30°	7281.9	7369.1	6741.2	5751.4	4399.6	3562.4	3797.9	4591.5	5092.9	5232.5	6004.3
32.5°	8646.7	8611.8	8232.4	7159.8	5659.8	4199.1	3924.4	4661.3	5149.6	5284.8	6156.9
35°	9715.0	9592.9	9209.2	8241.2	6701.9	5158.4	4360.4	4992.7	5398.2	5559.5	6374.9
37.5°	10242.6	10294.9	10072.5	9231.0	7844.4	6047.9	4905.4	4992.7	5476.7	5664.2	6728.1
40°	10652.5	10809.4	10726.6	10456.2	8978.1	7050.8	5507.2	5302.2	5873.5	6226.6	7390.9
42.5°	11145.2	11071.1	11559.4	11310.9	10460.6	8315.3	6562.4	6039.2	6810.9	7151.1	8385.0
45°	11406.8	11690.2	12060.9	12379.2	11834.1	9893.7	7940.3	7342.9	8245.5	8677.2	9863.2
47.5°	12078.3	12191.7	12793.4	13194.6	12950.4	11698.9	10033.3	9248.4	10050.7	10730.9	11555.1
50°	12470.7	12318.1	13159.7	13770.1	13909.7	13194.6	11908.2	11297.8	12196.0	13063.8	13137.9
52.5°	12126.3	12562.3	13403.9	14498.3	14886.4	14528.8	14110.2	13844.3	14476.5	15278.8	14921.3
55°	10918.4	11214.9	13264.3	15296.3	16547.7	16382.0	16770.1	16595.7	17232.3	18082.6	17005.6
57.5°	9946.1	10316.7	12117.5	15710.5	18095.7	18584.0	19072.4	18963.4	19730.8	20711.9	18771.5
60°	9340.0	9553.6	11289.1	15605.9	19011.3	20860.1	21963.3	21195.9	22447.3	23197.3	20153.8
62.5°	8289.1	8424.3	10081.2	14219.3	19286.0	22469.1	24339.7	23297.6	24383.3	25299.0	21147.9
65°	6645.2	7011.5	8380.7	12143.7	17472.1	22765.6	25822.3	24597.0	25647.9	26249.6	21448.8
66°	6047.9	6313.9	7569.7	11044.9	16438.7	22272.9	25573.7	24867.3	25831.0	26380.4	20986.6
67.5°	5018.8	5249.9	6248.5	9479.5	14323.9	21187.2	25748.2	24684.2	25970.5	25634.8	20367.4
70°	3322.6	3470.9	4273.2	6409.8	9976.6	17332.6	23881.9	23254.0	22831.0	21570.9	15924.2
72.5°	1552.3	1766.0	2668.6	3885.1	5851.7	12126.3	19473.5	18632.0	16011.4	13996.9	10046.4
75°	702.0	798.0	1465.1	2228.2	2625.0	6283.3	12562.3	11345.8	7970.8	6619.1	4399.6
77.5°	379.4	431.7	715.1	1059.6	954.9	2202.0	6217.9	5171.4	2511.6	1840.1	1277.6
80°	292.1	344.5	597.4	606.1	353.2	571.2	2311.0	1600.3	627.9	475.3	305.2
82.5°	152.6	218.0	470.9	392.4	178.8	231.1	715.1	444.8	196.2	157.0	130.8
85°	61.0	95.9	266.0	261.6	104.6	78.5	200.6	135.2	78.5	65.4	61.0
87.5°	4.4	4.4	143.9	100.3	65.4	21.8	30.5	30.5	39.2	34.9	43.6
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°	4622.0	4622.0	4622.0	4622.0	4622.0	4622.0	4622.0	4622.0	4622.0	4622.0	4622.0
2.5°	4735.4	4787.7	4796.4	4940.3	4970.9	4940.3	5018.8	5005.7	5040.6	5014.5	4966.5
5°	4844.4	4918.5	5062.4	5171.4	5171.4	5084.2	5014.5	4922.9	4787.7	4752.8	4726.7
7.5°	5031.9	5267.4	5398.2	5328.4	5188.9	4861.8	4408.4	4077.0	3797.9	3693.3	3645.3
10°	5363.3	5494.1	5646.7	5363.3	4783.4	4090.1	3327.0	2825.5	2433.1	2345.9	2280.5
12.5°	5576.9	5786.2	5873.5	5171.4	4033.4	3000.0	2171.5	1604.6	1329.9	1120.6	1085.7
15°	5856.0	6095.8	5917.1	4652.5	3178.7	1966.5	1125.0	702.0	571.2	536.3	536.3
17.5°	6047.9	6309.5	5738.3	4007.2	2254.3	1046.5	558.1	484.0	475.3	479.6	470.9
20°	6383.6	6540.6	5467.9	3257.2	1347.4	536.3	449.1	431.7	423.0	436.0	427.3
22.5°	6510.1	6654.0	5027.5	2359.0	606.1	357.6	335.8	322.7	331.4	327.0	322.7
25°	6501.4	6575.5	4303.7	1351.7	178.8	139.5	126.5	126.5	117.7	122.1	117.7
27.5°	6566.8	6383.6	3492.7	401.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	6601.6	6074.0	2485.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6619.1	5912.7	1600.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	6754.3	5590.0	684.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6845.8	5175.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7225.2	5045.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7717.9	4800.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8402.5	4438.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9309.4	4225.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	9985.3	3889.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10844.3	3688.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	11864.6	3697.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	12793.4	3636.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13268.7	3109.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13168.4	2515.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	12819.6	1975.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	12579.7	1748.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11851.6	1399.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9431.5	959.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5999.9	588.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2764.5	270.3	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	867.7	165.7	34.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	226.7	104.6	34.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	117.7	74.1	30.5	13.1	8.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	74.1	30.5	13.1	8.7	8.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	65.4	17.4	8.7	8.7	4.4	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)