

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: P483009

Luminaire Tested: **IFLD-S-SA6C-830-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P483009  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-830-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

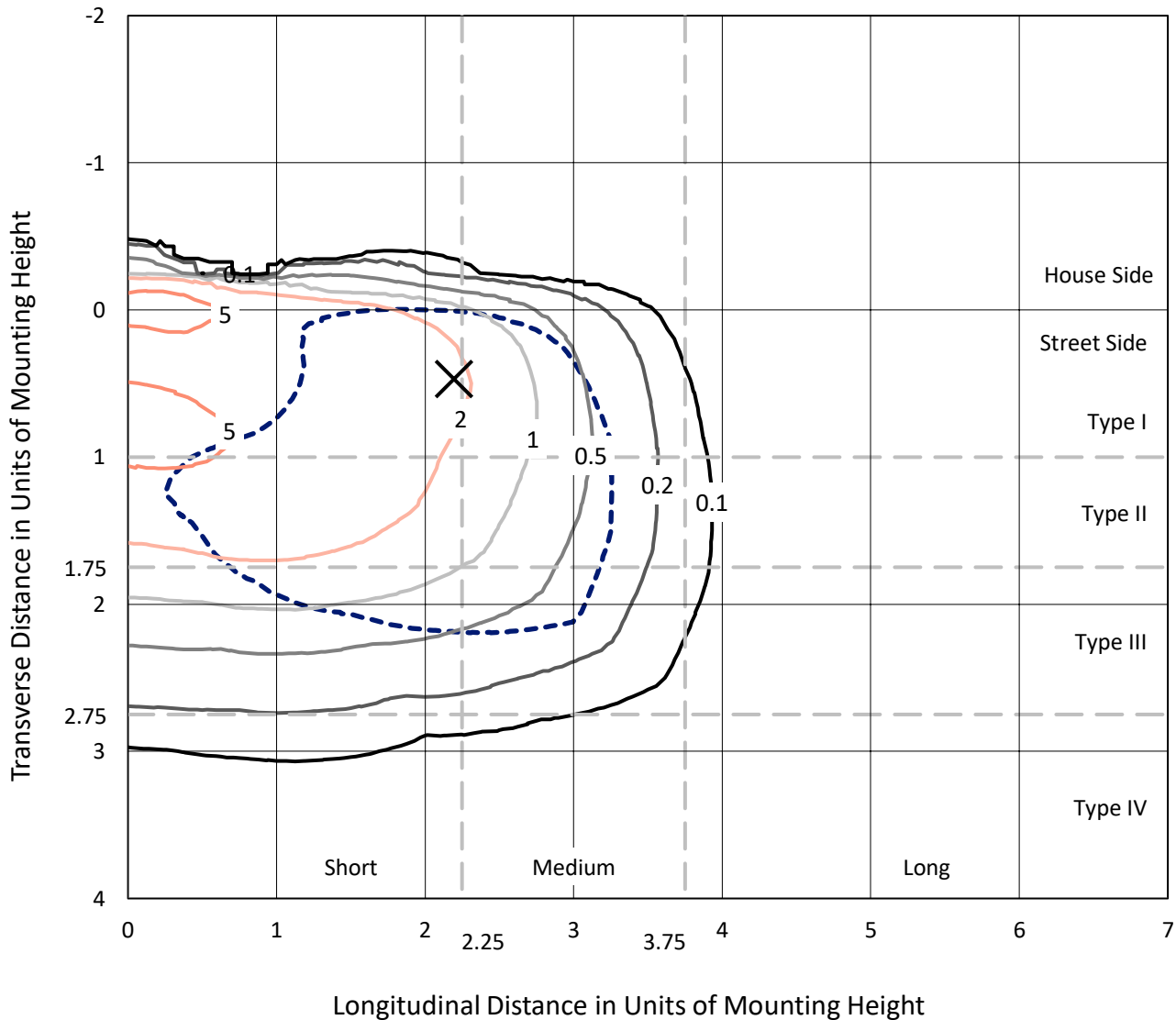
Lumens per Lamp: N/A  
Luminaire Lumens: 23667.3 lumens  
Efficiency: N/A  
Efficacy: 73.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 321.5  
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

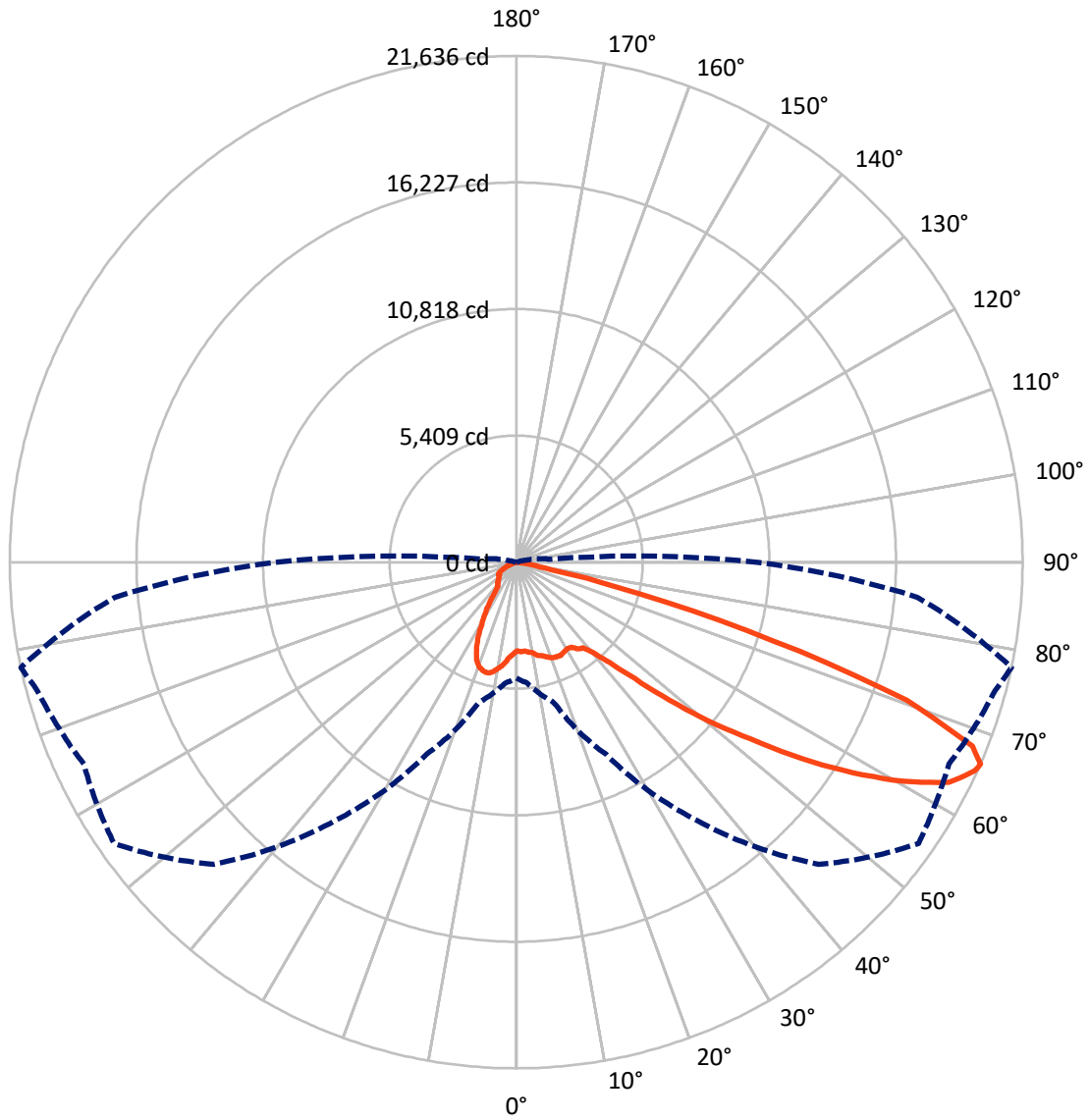
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	1663.9	0.0	1663.9
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	22003.4	0.0	22003.4
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	23667.3	0.0	23667.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.8	1.5
10°-20°	782.8	3.3
20°-30°	1118.9	4.7
30°-40°	1915.3	8.1
40°-50°	3456.9	14.6
50°-60°	5911.8	25.0
60°-70°	7276.4	30.7
70°-80°	2750.9	11.6
80°-90°	107.5	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°	23667.3	100.0
0°-180°	23667.3	100.0

**Coefficient of Utilization**

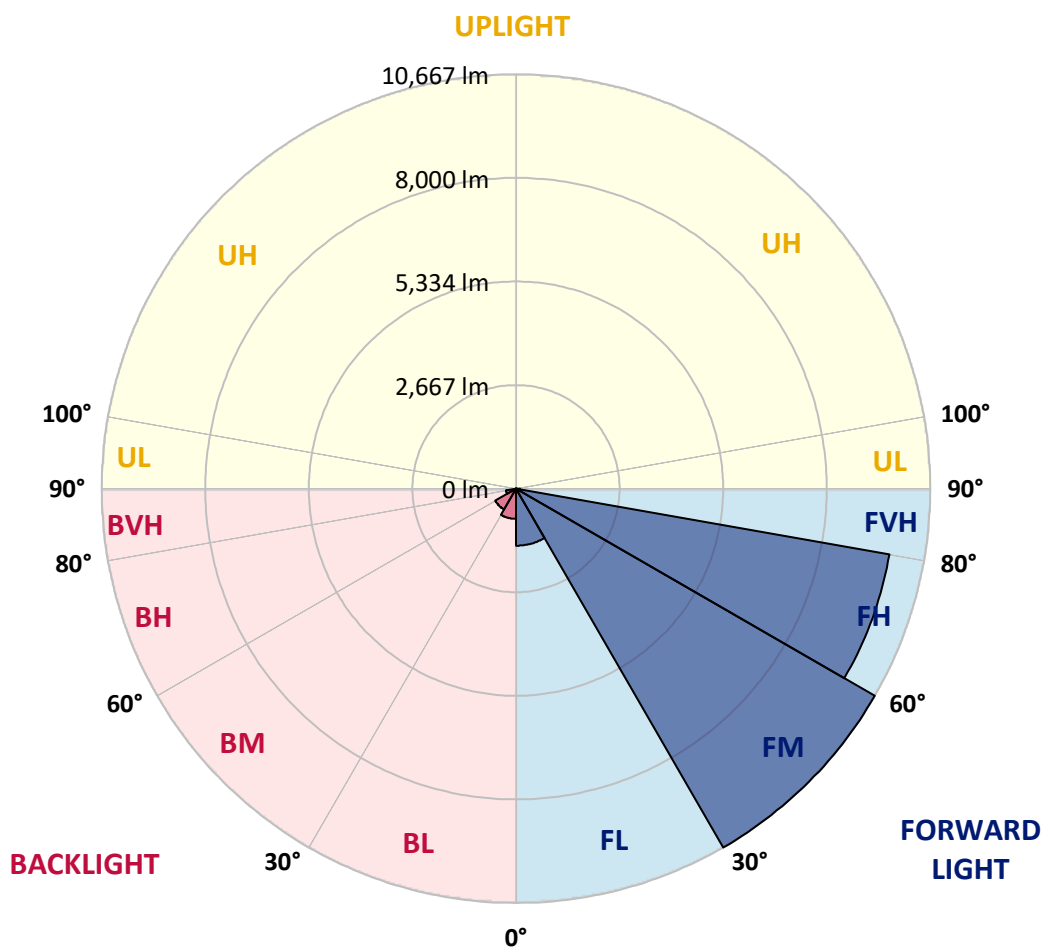


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1469.3	6.2			
FM (30°-60°)	10667.3	45.1			
FH (60°-80°)	9763.6	41.3			G4/12000
FVH (80°-90°)	103.1	0.4			G2/225
BL (0°-30°)	779.3	3.3	B2/1000		
BM (30°-60°)	616.7	2.6	B1/1000		
BH (60°-80°)	263.6	1.1	B1/500		G1/500
BVH (80°-90°)	4.3	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°	3790.7	3790.7	3790.7	3790.7	3790.7	3790.7	3790.7	3790.7	3790.7	3790.7	3790.7
2.5°	3486.8	3454.6	3486.8	3533.2	3558.3	3579.7	3654.8	3719.2	3787.2	3833.6	3819.3
5°	3232.8	3293.6	3300.8	3315.1	3354.4	3483.2	3526.1	3637.0	3805.0	3819.3	3883.7
7.5°	3032.6	3014.7	3061.2	3154.2	3254.3	3329.4	3454.6	3647.7	3822.9	3883.7	4008.9
10°	2742.9	2778.7	2828.7	2921.7	3043.3	3229.3	3451.0	3665.6	3915.9	3937.4	4169.8
12.5°	2585.6	2549.8	2628.5	2725.0	2932.5	3104.1	3375.9	3633.4	3973.1	4091.1	4359.3
15°	2456.8	2474.7	2549.8	2614.2	2785.8	3004.0	3322.3	3712.1	4069.7	4151.9	4559.6
17.5°	2403.2	2392.5	2449.7	2514.0	2725.0	2971.8	3300.8	3715.6	4155.5	4262.8	4695.5
20°	2428.2	2449.7	2431.8	2492.6	2624.9	2875.2	3333.0	3783.6	4219.9	4366.5	4842.1
22.5°	2821.6	2793.0	2649.9	2535.5	2542.6	2835.9	3307.9	3826.5	4277.1	4395.1	4942.3
25°	3847.9	3694.2	3340.1	2900.3	2610.6	2728.6	3279.3	3812.2	4266.4	4413.0	5003.0
27.5°	4881.5	4749.1	4402.3	3719.2	2886.0	2685.7	3179.2	3822.9	4212.7	4348.6	4902.9
30°	5972.2	6043.7	5528.7	4717.0	3608.3	2921.7	3114.8	3765.7	4177.0	4291.4	4924.4
32.5°	7091.5	7062.9	6751.8	5872.1	4641.9	3443.8	3218.5	3822.9	4223.4	4334.3	5049.5
35°	7967.7	7867.6	7552.8	6758.9	5496.6	4230.6	3576.2	4094.7	4427.3	4559.6	5228.3
37.5°	8400.4	8443.3	8260.9	7570.7	6433.5	4960.1	4023.2	4094.7	4491.7	4645.4	5518.0
40°	8736.6	8865.3	8797.4	8575.6	7363.3	5782.7	4516.7	4348.6	4817.1	5106.8	6061.6
42.5°	9140.7	9079.9	9480.4	9276.6	8579.2	6819.7	5382.1	4953.0	5586.0	5864.9	6877.0
45°	9355.2	9587.7	9891.7	10152.7	9705.7	8114.3	6512.2	6022.3	6762.5	7116.6	8089.3
47.5°	9906.0	9998.9	10492.5	10821.5	10621.2	9594.8	8228.7	7585.0	8243.0	8800.9	9476.8
50°	10227.8	10102.7	10792.9	11293.5	11407.9	10821.5	9766.5	9265.8	10002.5	10714.2	10775.0
52.5°	9945.3	10302.9	10993.1	11890.7	12209.0	11915.8	11572.5	11354.3	11872.9	12530.9	12237.6
55°	8954.7	9197.9	10878.7	12545.2	13571.5	13435.6	13753.9	13610.9	14133.0	14830.3	13947.0
57.5°	8157.2	8461.2	9938.1	12884.9	14841.1	15241.6	15642.1	15552.7	16182.1	16986.8	15395.4
60°	7660.1	7835.4	9258.7	12799.1	15592.1	17108.3	18013.1	17383.7	18410.1	19025.2	16529.0
62.5°	6798.3	6909.1	8268.1	11661.9	15817.4	18428.0	19962.1	19107.4	19997.9	20748.9	17344.4
65°	5450.1	5750.5	6873.4	9959.6	14329.7	18671.1	21178.0	20173.1	21035.0	21528.5	17591.1
66°	4960.1	5178.3	6208.2	9058.4	13482.1	18267.0	20974.2	20394.8	21185.2	21635.8	17212.1
67.5°	4116.2	4305.7	5124.6	7774.6	11747.7	17376.6	21117.2	20244.6	21299.6	21024.2	16704.2
70°	2725.0	2846.6	3504.6	5257.0	8182.3	14215.2	19586.6	19071.7	18724.8	17691.3	13060.1
72.5°	1273.1	1448.3	2188.6	3186.4	4799.2	9945.3	15971.1	15280.9	13131.7	11479.5	8239.5
75°	575.8	654.4	1201.6	1827.4	2152.8	5153.2	10302.9	9305.2	6537.2	5428.6	3608.3
77.5°	311.1	354.0	586.5	869.0	783.2	1806.0	5099.6	4241.3	2059.9	1509.1	1047.8
80°	239.6	282.5	489.9	497.1	289.7	468.5	1895.4	1312.5	515.0	389.8	250.3
82.5°	125.2	178.8	386.2	321.9	146.6	189.5	586.5	364.8	160.9	128.7	107.3
85°	50.1	78.7	218.1	214.6	85.8	64.4	164.5	110.9	64.4	53.6	50.1
87.5°	3.6	3.6	118.0	82.3	53.6	17.9	25.0	25.0	32.2	28.6	35.8
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°	3790.7	3790.7	3790.7	3790.7	3790.7	3790.7	3790.7	3790.7	3790.7	3790.7	3790.7
2.5°	3883.7	3926.6	3933.8	4051.8	4076.8	4051.8	4116.2	4105.4	4134.0	4112.6	4073.2
5°	3973.1	4033.9	4151.9	4241.3	4241.3	4169.8	4112.6	4037.5	3926.6	3898.0	3876.6
7.5°	4126.9	4320.0	4427.3	4370.1	4255.6	3987.4	3615.5	3343.7	3114.8	3029.0	2989.7
10°	4398.7	4506.0	4631.1	4398.7	3923.0	3354.4	2728.6	2317.4	1995.5	1924.0	1870.3
12.5°	4573.9	4745.6	4817.1	4241.3	3307.9	2460.4	1780.9	1316.0	1090.7	919.1	890.5
15°	4802.8	4999.5	4852.8	3815.8	2607.0	1612.8	922.6	575.8	468.5	439.9	439.9
17.5°	4960.1	5174.7	4706.2	3286.5	1848.9	858.3	457.7	397.0	389.8	393.4	386.2
20°	5235.5	5364.2	4484.5	2671.4	1105.0	439.9	368.3	354.0	346.9	357.6	350.5
22.5°	5339.2	5457.2	4123.3	1934.7	497.1	293.2	275.4	264.6	271.8	268.2	264.6
25°	5332.1	5392.8	3529.7	1108.6	146.6	114.4	103.7	103.7	96.6	100.1	96.6
27.5°	5385.7	5235.5	2864.5	329.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	5414.3	4981.6	2038.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5428.6	4849.3	1312.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	5539.5	4584.6	561.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5614.6	4244.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5925.7	4137.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6329.8	3937.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6891.3	3640.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7635.1	3465.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8189.4	3189.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8893.9	3025.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9730.7	3032.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10492.5	2982.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10882.3	2549.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10800.0	2063.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10513.9	1620.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	10317.2	1434.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9720.0	1147.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7735.2	786.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4920.8	482.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2267.3	221.7	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	711.7	135.9	28.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	186.0	85.8	28.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	96.6	60.8	25.0	10.7	7.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	60.8	25.0	10.7	7.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	53.6	14.3	7.2	7.2	3.6	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)