

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: P482783

Luminaire Tested: **IFLD-L-SA7A-730-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482783
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-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

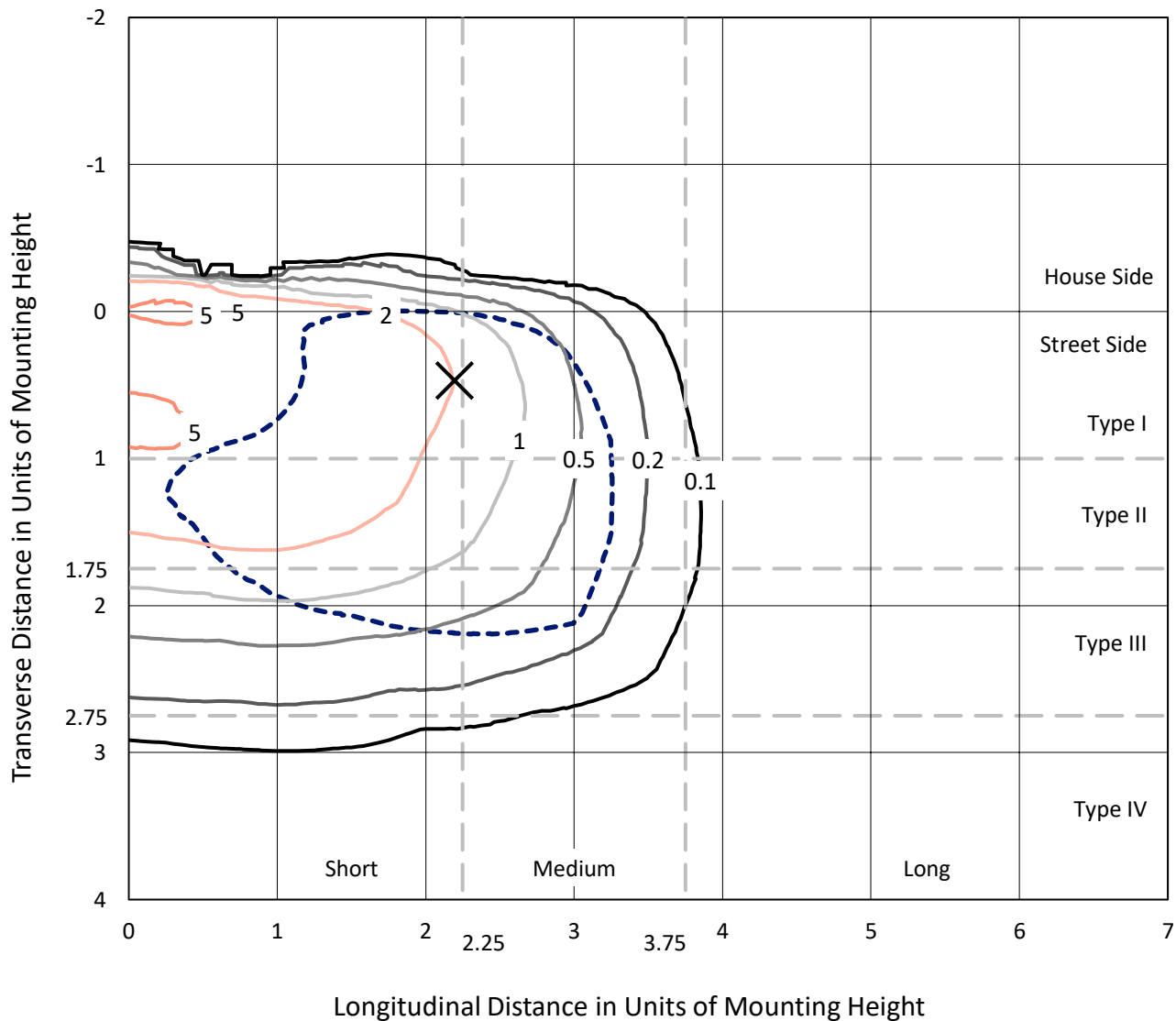
Lumens per Lamp: N/A
Luminaire Lumens: 20431 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6
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

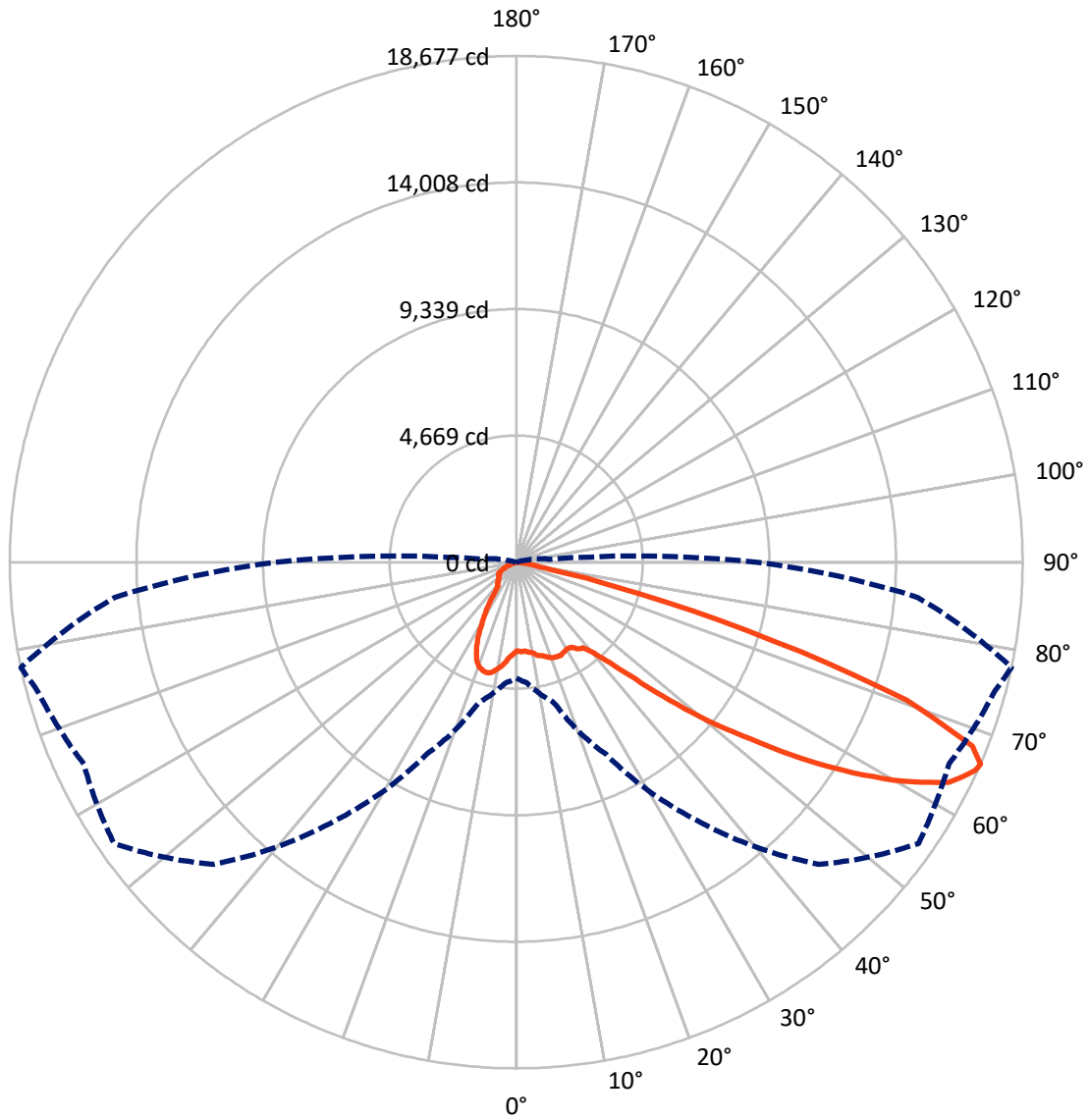
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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
House Side	Lumens	1436.4	0.0	1436.4
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	18994.6	0.0	18994.6
	% Fixture	93.0	0.0	93.0
Total	Lumens	20431.0	0.0	20431.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.4	1.5
10°-20°	675.8	3.3
20°-30°	965.9	4.7
30°-40°	1653.4	8.1
40°-50°	2984.2	14.6
50°-60°	5103.4	25.0
60°-70°	6281.4	30.7
70°-80°	2374.7	11.6
80°-90°	92.8	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°	20431.0	100.0
0°-180°	20431.0	100.0

Coefficient of Utilization



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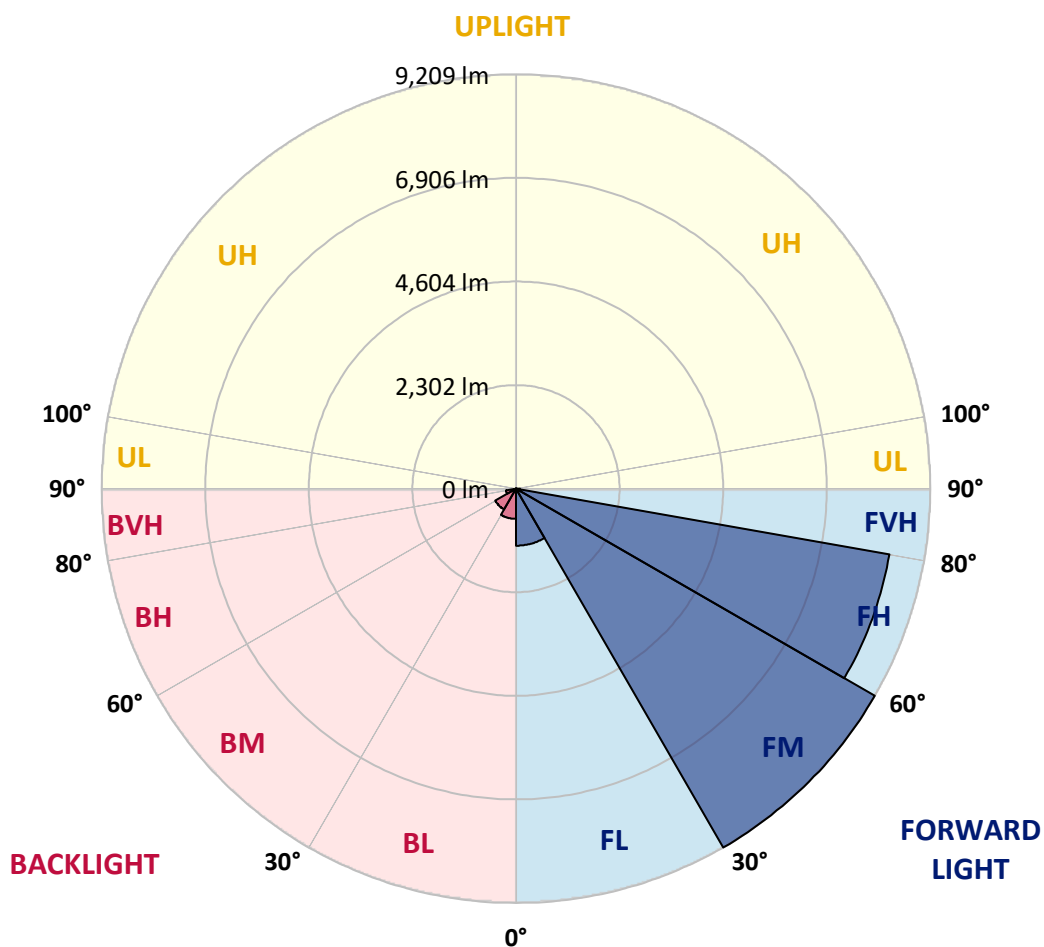
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1268.4	6.2			
FM (30°-60°)	9208.6	45.1			
FH (60°-80°)	8428.5	41.3			G4/12000
FVH (80°-90°)	89.0	0.4			G1/100
BL (0°-30°)	672.7	3.3	B2/1000		
BM (30°-60°)	532.4	2.6	B1/1000		
BH (60°-80°)	227.6	1.1	B1/500		G1/500
BVH (80°-90°)	3.7	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°	3272.4	3272.4	3272.4	3272.4	3272.4	3272.4	3272.4	3272.4	3272.4	3272.4	3272.4
2.5°	3010.0	2982.2	3010.0	3050.1	3071.7	3090.2	3155.1	3210.6	3269.3	3309.4	3297.1
5°	2790.8	2843.3	2849.4	2861.8	2895.7	3006.9	3043.9	3139.6	3284.7	3297.1	3352.6
7.5°	2617.9	2602.5	2642.6	2722.9	2809.3	2874.1	2982.2	3148.9	3300.2	3352.6	3460.7
10°	2367.8	2398.7	2441.9	2522.2	2627.2	2787.7	2979.1	3164.3	3380.4	3399.0	3599.6
12.5°	2232.0	2201.1	2269.1	2352.4	2531.5	2679.6	2914.3	3136.5	3429.8	3531.7	3763.2
15°	2120.9	2136.3	2201.1	2256.7	2404.9	2593.2	2868.0	3204.5	3513.2	3584.2	3936.1
17.5°	2074.6	2065.3	2114.7	2170.3	2352.4	2565.4	2849.4	3207.5	3587.3	3679.9	4053.4
20°	2096.2	2114.7	2099.3	2151.7	2266.0	2482.1	2877.2	3266.2	3642.8	3769.4	4180.0
22.5°	2435.8	2411.1	2287.6	2188.8	2195.0	2448.1	2855.6	3303.2	3692.2	3794.1	4266.4
25°	3321.8	3189.0	2883.4	2503.7	2253.6	2355.5	2830.9	3290.9	3683.0	3809.5	4318.9
27.5°	4214.0	4099.7	3800.3	3210.6	2491.3	2318.4	2744.5	3300.2	3636.7	3754.0	4232.5
30°	5155.5	5217.3	4772.7	4071.9	3114.9	2522.2	2688.9	3250.8	3605.8	3704.6	4251.0
32.5°	6121.8	6097.1	5828.5	5069.1	4007.1	2972.9	2778.4	3300.2	3645.9	3741.6	4359.1
35°	6878.2	6791.7	6520.1	5834.7	4744.9	3652.1	3087.1	3534.8	3821.9	3936.1	4513.4
37.5°	7251.7	7288.8	7131.3	6535.5	5553.8	4281.9	3473.0	3534.8	3877.5	4010.2	4763.5
40°	7541.9	7653.0	7594.4	7403.0	6356.4	4991.9	3899.1	3754.0	4158.4	4408.4	5232.7
42.5°	7890.8	7838.3	8184.0	8008.1	7406.1	5887.2	4646.2	4275.7	4822.1	5062.9	5936.6
45°	8076.0	8276.6	8539.1	8764.4	8378.5	7004.7	5621.7	5198.8	5837.8	6143.4	6983.1
47.5°	8551.4	8631.7	9057.7	9341.7	9168.8	8282.8	7103.5	6547.8	7115.9	7597.5	8180.9
50°	8829.2	8721.2	9317.0	9749.2	9848.0	9341.7	8431.0	7998.8	8634.8	9249.1	9301.6
52.5°	8585.4	8894.1	9489.9	10264.8	10539.5	10286.4	9990.0	9801.7	10249.3	10817.4	10564.2
55°	7730.2	7940.1	9391.1	10829.7	11715.7	11598.4	11873.2	11749.7	12200.4	12802.4	12039.9
57.5°	7041.8	7304.2	8579.2	11123.0	12811.7	13157.4	13503.2	13426.0	13969.3	14664.0	13290.2
60°	6612.7	6763.9	7992.6	11048.9	13460.0	14768.9	15550.0	15006.6	15892.6	16423.6	14268.8
62.5°	5868.7	5964.4	7137.5	10067.2	13654.5	15908.1	17232.5	16494.6	17263.3	17911.6	14972.7
65°	4704.8	4964.1	5933.5	8597.7	12370.2	16118.0	18282.1	17414.6	18158.6	18584.6	15185.7
66°	4281.9	4470.2	5359.3	7819.7	11638.6	15769.2	18106.1	17606.0	18288.3	18677.2	14858.4
67.5°	3553.3	3716.9	4423.9	6711.5	10141.3	15000.5	18229.6	17476.3	18387.1	18149.3	14420.1
70°	2352.4	2457.4	3025.4	4538.1	7063.4	12271.4	16908.3	16463.8	16164.3	15272.1	11274.3
72.5°	1099.0	1250.3	1889.3	2750.6	4143.0	8585.4	13787.2	13191.4	11336.0	9909.7	7112.8
75°	497.0	564.9	1037.3	1577.5	1858.5	4448.6	8894.1	8032.8	5643.3	4686.3	3114.9
77.5°	268.6	305.6	506.3	750.2	676.1	1559.0	4402.3	3661.4	1778.2	1302.8	904.5
80°	206.8	243.9	422.9	429.1	250.1	404.4	1636.2	1133.0	444.5	336.5	216.1
82.5°	108.1	154.4	333.4	277.8	126.6	163.6	506.3	314.9	138.9	111.1	92.6
85°	43.2	67.9	188.3	185.2	74.1	55.6	142.0	95.7	55.6	46.3	43.2
87.5°	3.1	3.1	101.9	71.0	46.3	15.4	21.6	21.6	27.8	24.7	30.9
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°	3272.4	3272.4	3272.4	3272.4	3272.4	3272.4	3272.4	3272.4	3272.4	3272.4	3272.4
2.5°	3352.6	3389.7	3395.9	3497.7	3519.3	3497.7	3553.3	3544.0	3568.7	3550.2	3516.3
5°	3429.8	3482.3	3584.2	3661.4	3661.4	3599.6	3550.2	3485.4	3389.7	3365.0	3346.5
7.5°	3562.6	3729.3	3821.9	3772.5	3673.7	3442.2	3121.1	2886.5	2688.9	2614.8	2580.9
10°	3797.2	3889.8	3997.9	3797.2	3386.6	2895.7	2355.5	2000.5	1722.6	1660.9	1614.6
12.5°	3948.5	4096.6	4158.4	3661.4	2855.6	2124.0	1537.4	1136.1	941.6	793.4	768.7
15°	4146.0	4315.8	4189.3	3294.0	2250.5	1392.3	796.5	497.0	404.4	379.7	379.7
17.5°	4281.9	4467.1	4062.7	2837.1	1596.1	740.9	395.2	342.7	336.5	339.6	333.4
20°	4519.6	4630.7	3871.3	2306.1	953.9	379.7	318.0	305.6	299.5	308.7	302.5
22.5°	4609.1	4711.0	3559.5	1670.1	429.1	253.1	237.7	228.4	234.6	231.5	228.4
25°	4602.9	4655.4	3047.0	957.0	126.6	98.8	89.5	89.5	83.4	86.4	83.4
27.5°	4649.2	4519.6	2472.8	284.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	4673.9	4300.4	1759.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4686.3	4186.2	1133.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	4782.0	3957.7	484.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4846.8	3664.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5115.4	3571.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5464.3	3399.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5948.9	3142.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6591.1	2991.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7069.6	2753.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7677.7	2611.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8400.1	2617.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9057.7	2574.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9394.2	2201.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9323.2	1781.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9076.2	1398.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8906.4	1237.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8390.9	991.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6677.5	679.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4247.9	416.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1957.3	191.4	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	614.3	117.3	24.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	160.5	74.1	24.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	83.4	52.5	21.6	9.3	6.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	52.5	21.6	9.3	6.2	6.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	46.3	12.3	6.2	6.2	3.1	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)