

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: P482746

Luminaire Tested: **IFLD-L-SA7C-727-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482746  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-727-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

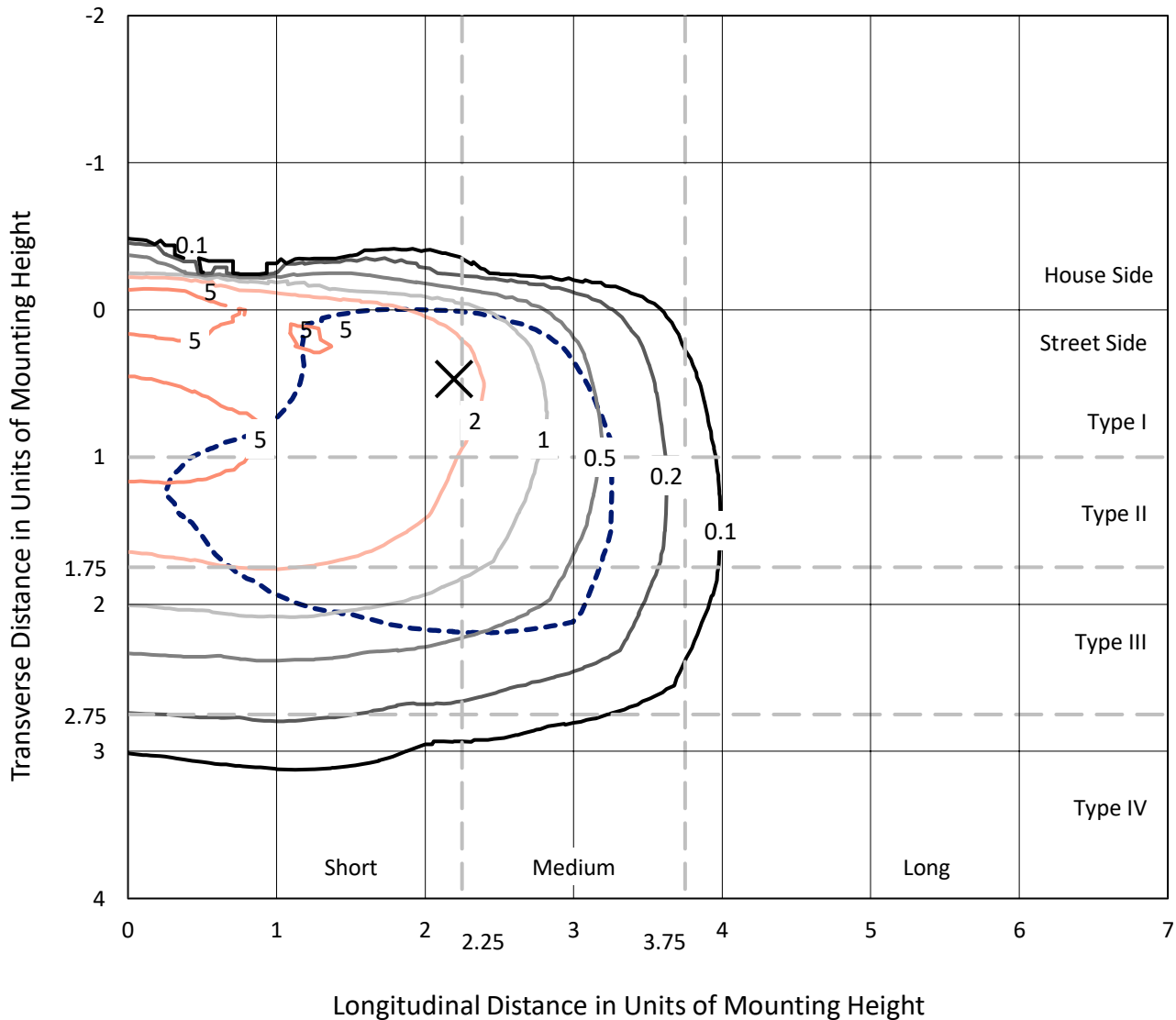
Lumens per Lamp: N/A  
Luminaire Lumens: 26575.3 lumens  
Efficiency: N/A  
Efficacy: 72.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 369  
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

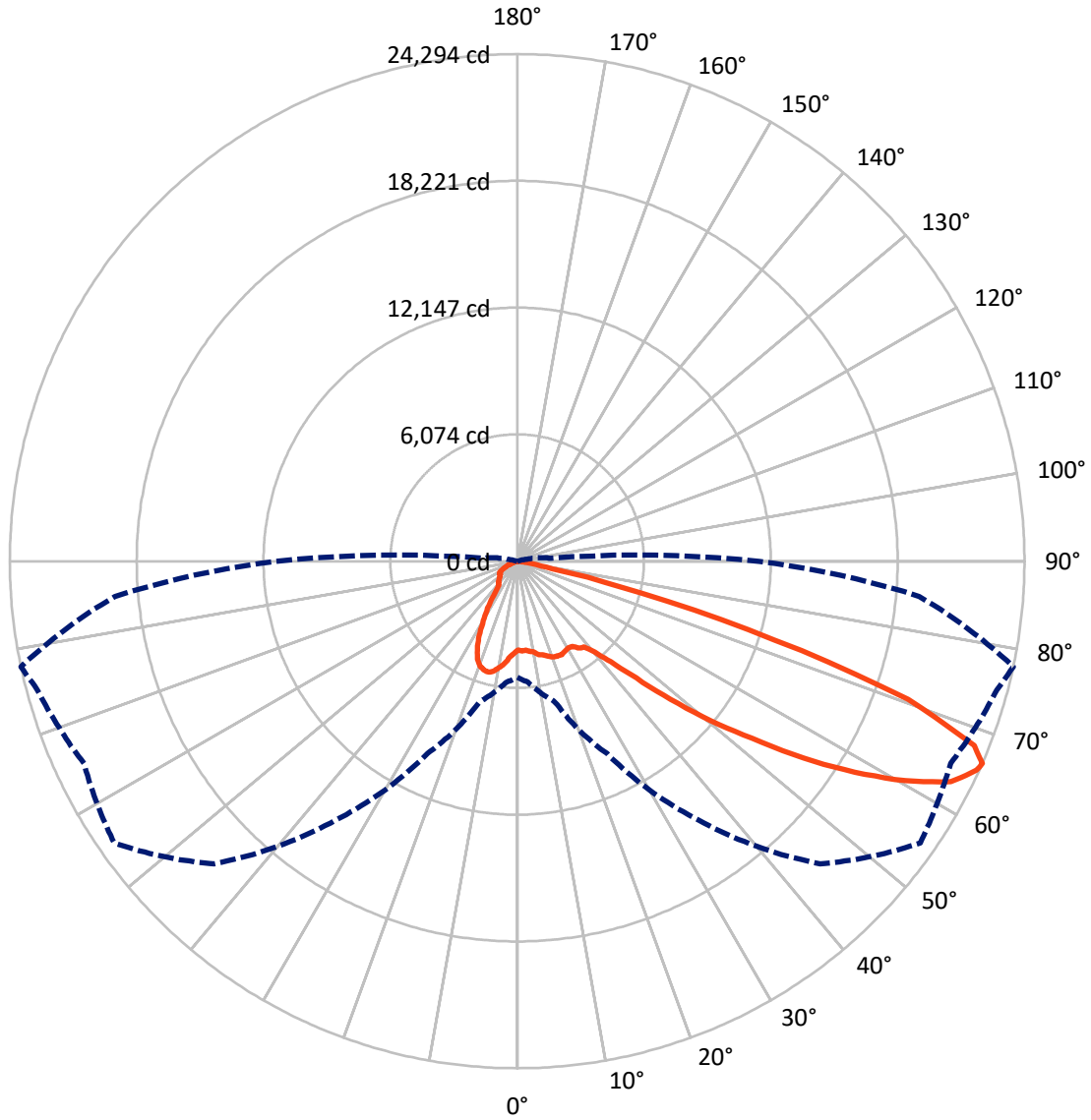
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	1868.4	0.0	1868.4
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	24706.9	0.0	24706.9
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	26575.3	0.0	26575.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	389.4	1.5
10°-20°	879.0	3.3
20°-30°	1256.4	4.7
30°-40°	2150.7	8.1
40°-50°	3881.7	14.6
50°-60°	6638.2	25.0
60°-70°	8170.4	30.7
70°-80°	3088.9	11.6
80°-90°	120.7	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°	26575.3	100.0
0°-180°	26575.3	100.0

**Coefficient of Utilization**

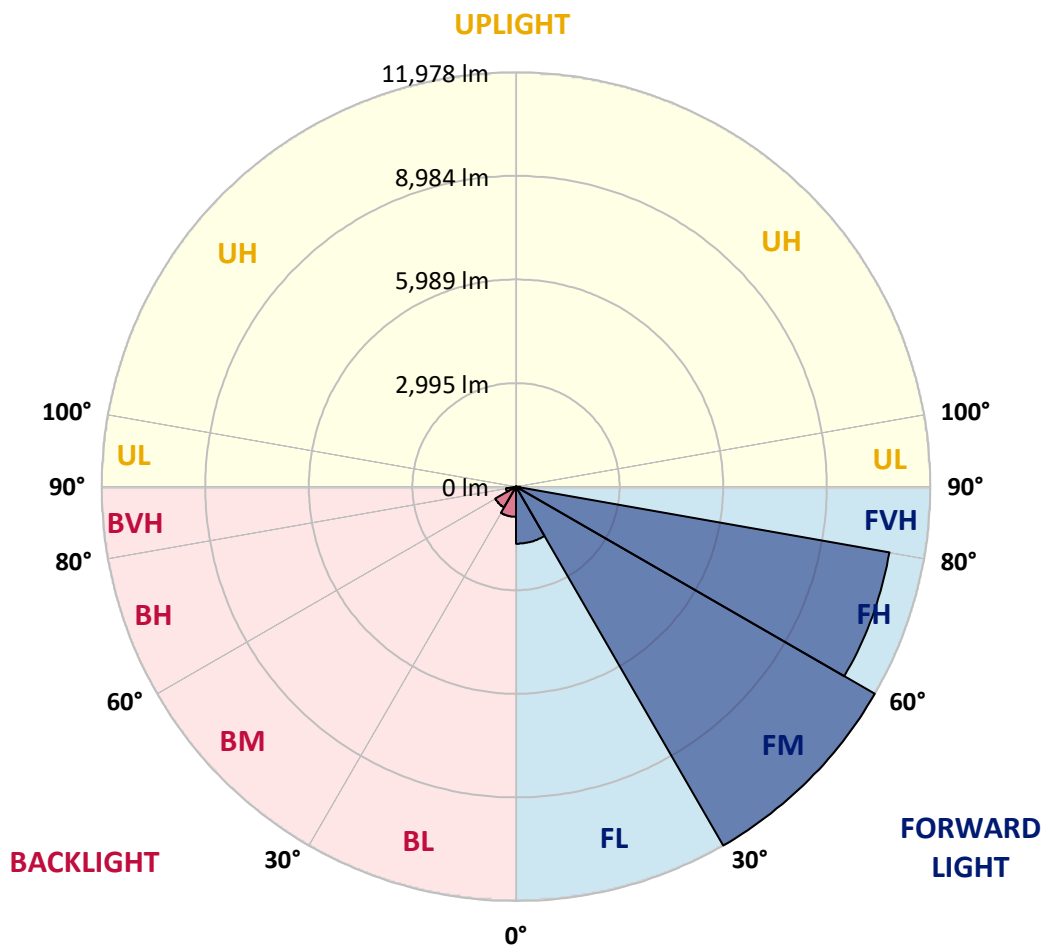


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1649.8	6.2			
FM (30°-60°)	11978.0	45.1			
FH (60°-80°)	10963.3	41.3			G4/12000
FVH (80°-90°)	115.8	0.4			G2/225
BL (0°-30°)	875.0	3.3	B2/1000		
BM (30°-60°)	692.5	2.6	B1/1000		
BH (60°-80°)	296.0	1.1	B1/500		G1/500
BVH (80°-90°)	4.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	4256.5	4256.5	4256.5	4256.5	4256.5	4256.5	4256.5	4256.5	4256.5	4256.5	4256.5
2.5°	3915.2	3879.0	3915.2	3967.4	3995.5	4019.6	4103.9	4176.2	4252.5	4304.7	4288.6
5°	3630.1	3698.3	3706.4	3722.4	3766.6	3911.2	3959.3	4083.8	4272.6	4288.6	4360.9
7.5°	3405.2	3385.1	3437.3	3541.7	3654.2	3738.5	3879.0	4095.9	4292.6	4360.9	4501.4
10°	3079.9	3120.1	3176.3	3280.7	3417.2	3626.1	3875.0	4116.0	4397.0	4421.1	4682.1
12.5°	2903.3	2863.1	2951.4	3059.9	3292.8	3485.5	3790.7	4079.8	4461.3	4593.8	4895.0
15°	2758.7	2778.8	2863.1	2935.4	3128.1	3373.1	3730.5	4168.2	4569.7	4662.1	5119.8
17.5°	2698.5	2686.4	2750.7	2822.9	3059.9	3336.9	3706.4	4172.2	4666.1	4786.6	5272.4
20°	2726.6	2750.7	2730.6	2798.8	2947.4	3228.5	3742.5	4248.5	4738.4	4903.0	5437.1
22.5°	3168.3	3136.2	2975.5	2847.0	2855.1	3184.3	3714.4	4296.7	4802.6	4935.1	5549.5
25°	4320.7	4148.1	3750.5	3256.6	2931.4	3063.9	3682.3	4280.6	4790.6	4955.2	5617.8
27.5°	5481.2	5332.7	4943.2	4176.2	3240.6	3015.7	3569.8	4292.6	4730.3	4882.9	5505.3
30°	6706.0	6786.3	6208.1	5296.5	4051.7	3280.7	3497.6	4228.4	4690.2	4818.7	5529.4
32.5°	7962.9	7930.7	7581.4	6593.6	5212.2	3867.0	3614.0	4292.6	4742.4	4866.9	5670.0
35°	8946.7	8834.2	8480.9	7589.4	6171.9	4750.4	4015.6	4597.8	4971.3	5119.8	5870.8
37.5°	9432.6	9480.7	9276.0	8500.9	7224.0	5569.6	4517.5	4597.8	5043.5	5216.2	6196.0
40°	9810.0	9954.6	9878.3	9629.3	8268.0	6493.2	5071.7	4882.9	5409.0	5734.2	6806.4
42.5°	10263.8	10195.5	10645.3	10416.4	9633.3	7657.7	6043.4	5561.6	6272.3	6585.5	7721.9
45°	10504.7	10765.7	11107.0	11400.2	10898.2	9111.3	7312.3	6762.2	7593.4	7991.0	9083.2
47.5°	11123.1	11227.5	11781.7	12151.1	11926.2	10773.8	9239.8	8517.0	9255.9	9882.3	10641.2
50°	11484.5	11344.0	12119.0	12681.2	12809.6	12151.1	10966.5	10404.3	11231.5	12030.6	12098.9
52.5°	11167.3	11568.8	12343.8	13351.7	13709.1	13379.9	12994.4	12749.4	13331.7	14070.5	13741.3
55°	10055.0	10328.0	12215.3	14086.6	15239.1	15086.5	15443.9	15283.2	15869.5	16652.5	15660.7
57.5°	9159.5	9500.8	11159.3	14468.1	16664.6	17114.3	17564.1	17463.7	18170.4	19073.9	17287.0
60°	8601.3	8798.1	10396.3	14371.7	17507.9	19210.5	20226.4	19519.7	20672.1	21362.8	18559.9
62.5°	7633.6	7758.1	9284.0	13094.8	17760.8	20692.2	22414.9	21455.2	22455.0	23298.3	19475.5
65°	6119.7	6457.0	7717.9	11183.3	16090.4	20965.3	23780.2	22651.8	23619.5	24173.7	19752.6
66°	5569.6	5814.5	6971.0	10171.4	15138.7	20511.5	23551.3	22900.8	23788.2	24294.2	19326.9
67.5°	4621.9	4834.7	5754.3	8729.8	13191.1	19511.6	23711.9	22732.1	23916.7	23607.5	18756.7
70°	3059.9	3196.4	3935.3	5902.9	9187.6	15961.9	21993.2	21415.0	21025.5	19865.0	14664.8
72.5°	1429.5	1626.3	2457.5	3577.9	5388.9	11167.3	17933.5	17158.5	14745.2	12890.0	9251.9
75°	646.5	734.8	1349.2	2052.0	2417.4	5786.4	11568.8	10448.5	7340.5	6095.6	4051.7
77.5°	349.4	397.5	658.6	975.8	879.4	2027.9	5726.2	4762.5	2313.0	1694.6	1176.6
80°	269.0	317.2	550.1	558.2	325.3	526.0	2128.2	1473.7	578.2	437.7	281.1
82.5°	140.5	200.8	433.7	361.4	164.6	212.8	658.6	409.6	180.7	144.6	120.5
85°	56.2	88.3	244.9	240.9	96.4	72.3	184.7	124.5	72.3	60.2	56.2
87.5°	4.0	4.0	132.5	92.4	60.2	20.1	28.1	28.1	36.1	32.1	40.2
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°	4256.5	4256.5	4256.5	4256.5	4256.5	4256.5	4256.5	4256.5	4256.5	4256.5	4256.5
2.5°	4360.9	4409.1	4417.1	4549.6	4577.7	4549.6	4621.9	4609.9	4642.0	4617.9	4573.7
5°	4461.3	4529.6	4662.1	4762.5	4762.5	4682.1	4617.9	4533.6	4409.1	4377.0	4352.9
7.5°	4634.0	4850.8	4971.3	4907.0	4778.5	4477.4	4059.7	3754.6	3497.6	3401.2	3357.0
10°	4939.1	5059.6	5200.2	4939.1	4405.1	3766.6	3063.9	2602.1	2240.7	2160.4	2100.1
12.5°	5135.9	5328.7	5409.0	4762.5	3714.4	2762.7	1999.8	1477.7	1224.7	1032.0	999.9
15°	5392.9	5613.8	5449.1	4284.6	2927.3	1811.0	1036.0	646.5	526.0	493.9	493.9
17.5°	5569.6	5810.5	5284.5	3690.3	2076.0	963.7	514.0	445.7	437.7	441.7	433.7
20°	5878.8	6023.3	5035.5	2999.6	1240.8	493.9	413.6	397.5	389.5	401.6	393.5
22.5°	5995.2	6127.8	4629.9	2172.4	558.2	329.3	309.2	297.2	305.2	301.2	297.2
25°	5987.2	6055.5	3963.4	1244.8	164.6	128.5	116.5	116.5	108.4	112.4	108.4
27.5°	6047.4	5878.8	3216.5	369.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	6079.6	5593.7	2288.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6095.6	5445.1	1473.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	6220.1	5148.0	630.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6304.4	4766.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6653.8	4646.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7107.5	4421.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7738.0	4087.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8573.2	3891.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	9195.6	3581.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9986.7	3397.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10926.3	3405.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11781.7	3349.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12219.4	2863.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	12127.0	2317.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11805.8	1819.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	11584.9	1610.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10914.3	1289.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8685.7	883.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5525.4	542.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2545.9	249.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	799.1	152.6	32.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	208.8	96.4	32.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	108.4	68.3	28.1	12.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	68.3	28.1	12.0	8.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	60.2	16.1	8.0	8.0	4.0	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)