

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: P482745

Luminaire Tested: **IFLD-L-SA7B-727-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482745
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-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

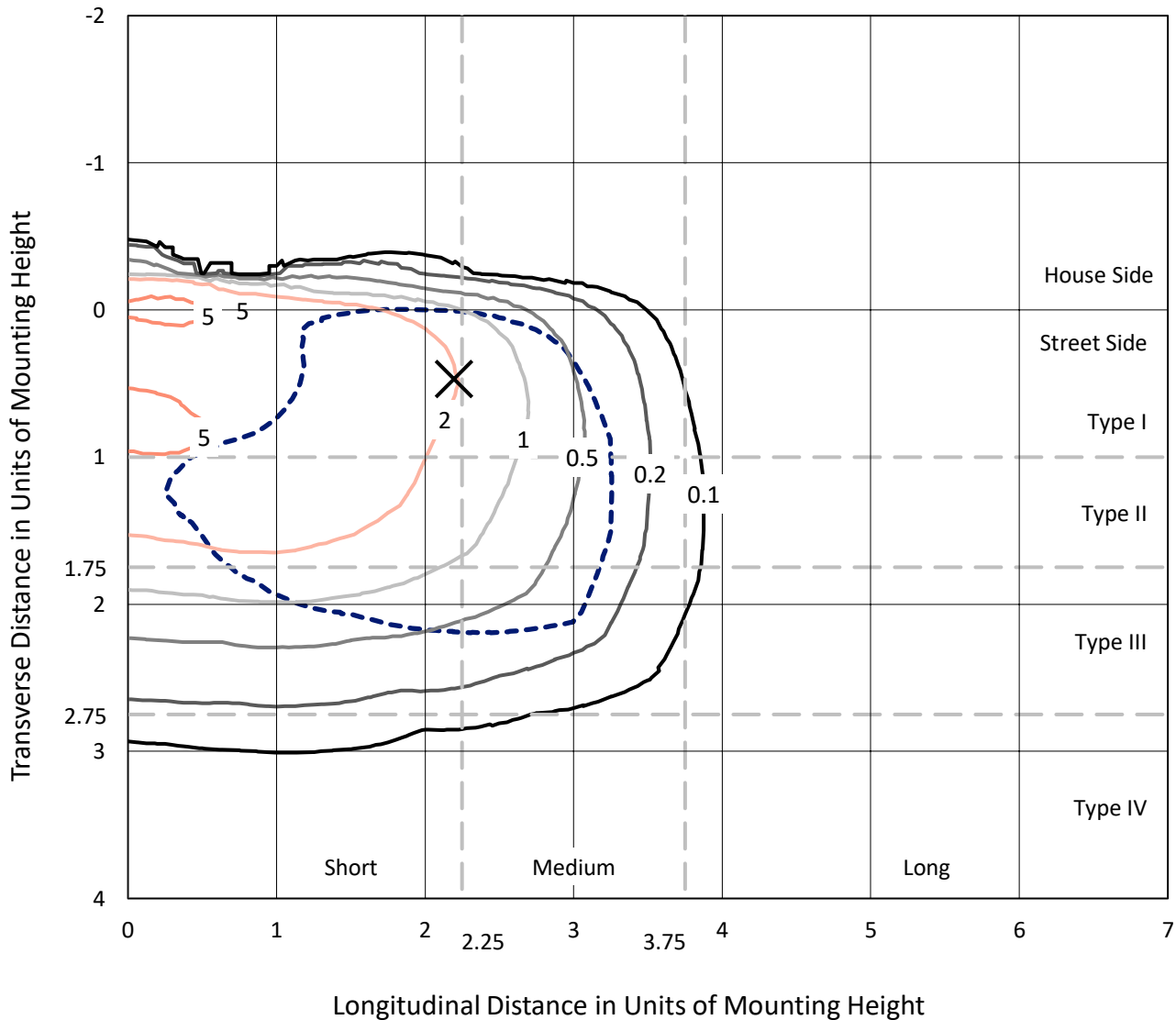
Lumens per Lamp: N/A
Luminaire Lumens: 21348.6 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 281
Input Voltage (V): 120
Input Current (A_{in}): 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

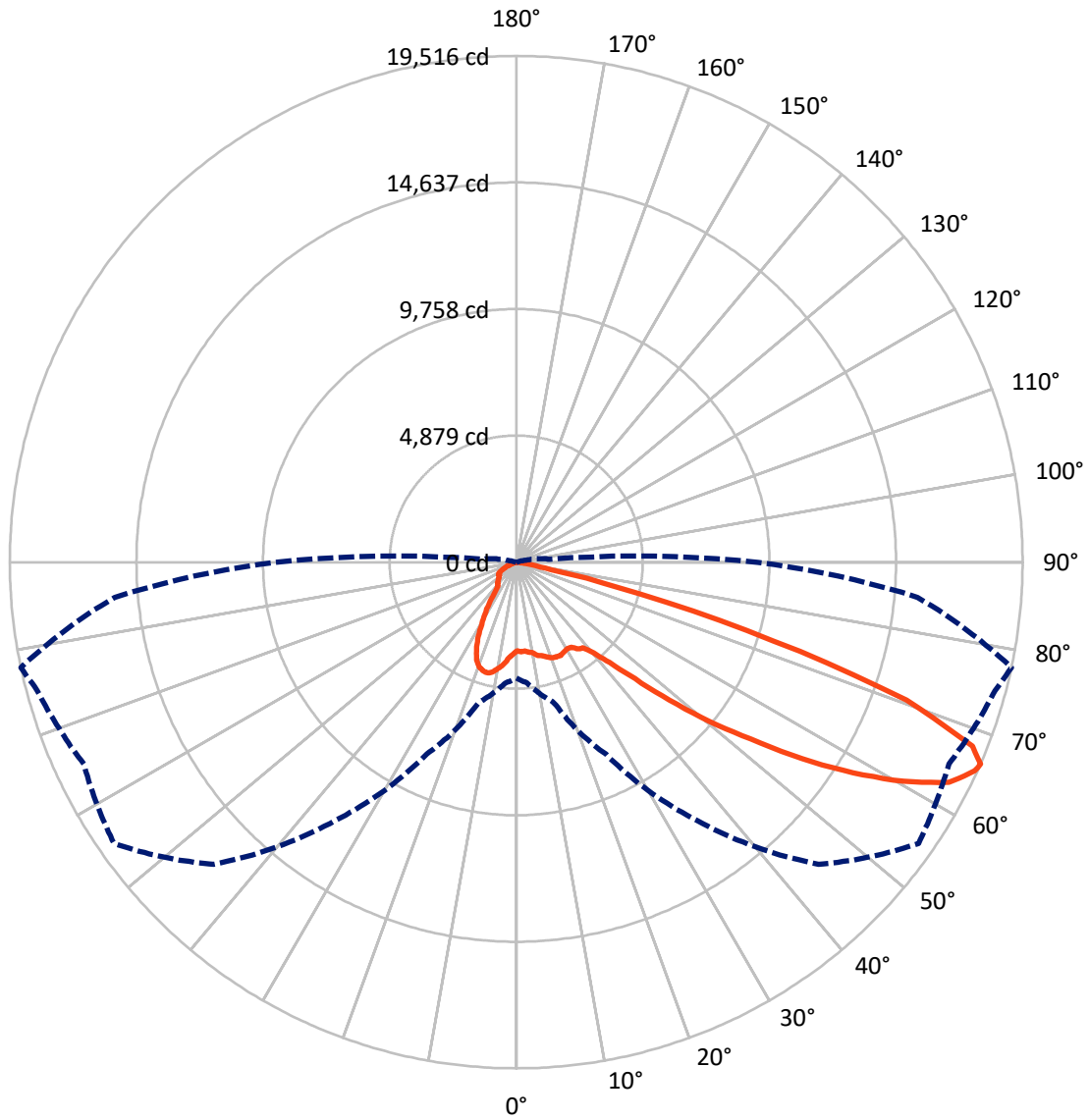
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	1500.9	0.0	1500.9
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	19847.7	0.0	19847.7
	% Fixture	93.0	0.0	93.0
Total	Lumens	21348.6	0.0	21348.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.8	1.5
10°-20°	706.1	3.3
20°-30°	1009.3	4.7
30°-40°	1727.7	8.1
40°-50°	3118.2	14.6
50°-60°	5332.6	25.0
60°-70°	6563.5	30.7
70°-80°	2481.4	11.6
80°-90°	96.9	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°	21348.6	100.0
0°-180°	21348.6	100.0

Coefficient of Utilization

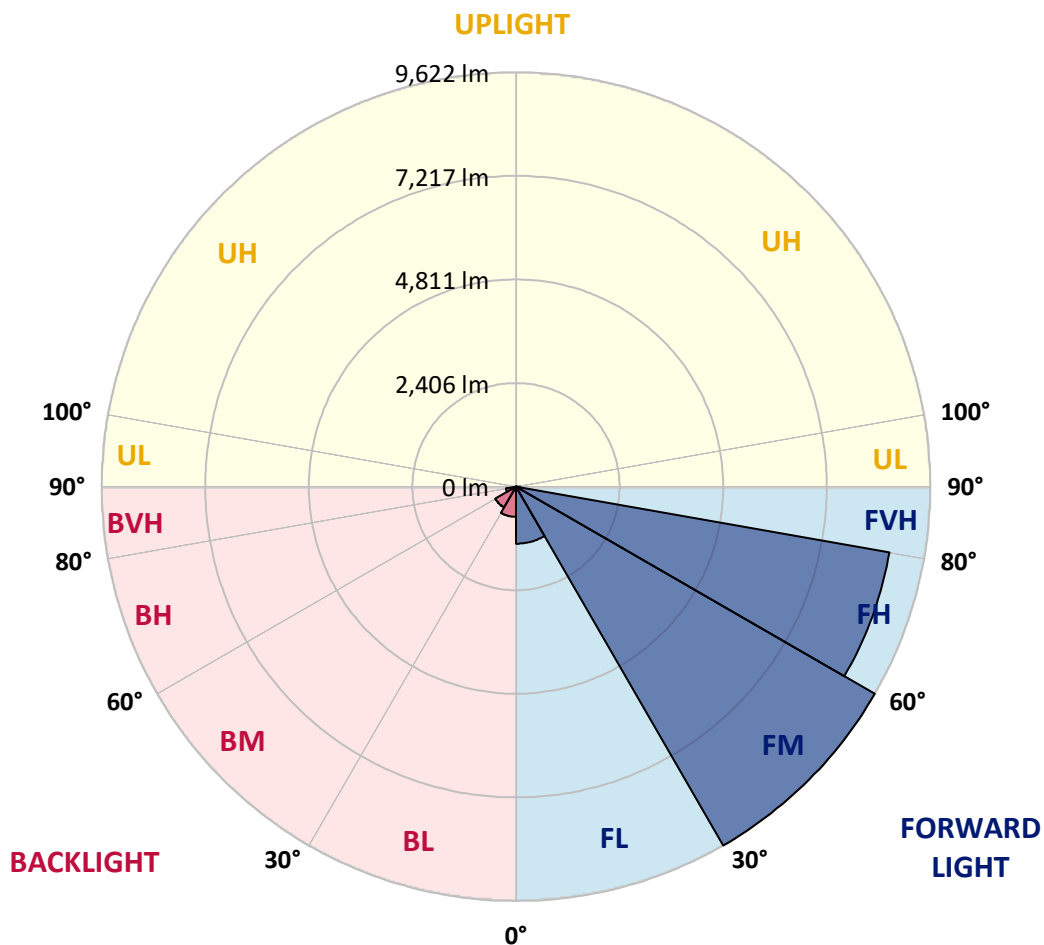


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1325.3	6.2			
FM (30°-60°)	9622.2	45.1			
FH (60°-80°)	8807.1	41.3			G4/12000
FVH (80°-90°)	93.0	0.4			G1/100
BL (0°-30°)	702.9	3.3	B2/1000		
BM (30°-60°)	556.3	2.6	B1/1000		
BH (60°-80°)	237.8	1.1	B1/500		G1/500
BVH (80°-90°)	3.9	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°	3419.4	3419.4	3419.4	3419.4	3419.4	3419.4	3419.4	3419.4	3419.4	3419.4	3419.4
2.5°	3145.2	3116.1	3145.2	3187.1	3209.7	3229.0	3296.8	3354.8	3416.1	3458.1	3445.2
5°	2916.1	2971.0	2977.4	2990.3	3025.8	3141.9	3180.6	3280.6	3432.3	3445.2	3503.2
7.5°	2735.5	2719.4	2761.3	2845.2	2935.5	3003.2	3116.1	3290.3	3448.4	3503.2	3616.1
10°	2474.2	2506.4	2551.6	2635.5	2745.2	2912.9	3112.9	3306.4	3532.3	3551.6	3761.3
12.5°	2332.3	2300.0	2371.0	2458.1	2645.2	2800.0	3045.2	3277.4	3583.9	3690.3	3932.3
15°	2216.1	2232.3	2300.0	2358.1	2512.9	2709.7	2996.8	3348.4	3671.0	3745.2	4112.9
17.5°	2167.7	2158.1	2209.7	2267.7	2458.1	2680.6	2977.4	3351.6	3748.4	3845.2	4235.5
20°	2190.3	2209.7	2193.5	2248.4	2367.7	2593.5	3006.4	3412.9	3806.4	3938.7	4367.7
22.5°	2545.2	2519.4	2390.3	2287.1	2293.5	2558.1	2983.9	3451.6	3858.1	3964.5	4458.1
25°	3471.0	3332.3	3012.9	2616.1	2354.8	2461.3	2958.1	3438.7	3848.4	3980.6	4512.9
27.5°	4403.2	4283.9	3971.0	3354.8	2603.2	2422.6	2867.7	3448.4	3800.0	3922.6	4422.6
30°	5387.1	5451.6	4987.1	4254.8	3254.8	2635.5	2809.7	3396.8	3767.7	3871.0	4441.9
32.5°	6396.8	6371.0	6090.3	5296.8	4187.1	3106.4	2903.2	3448.4	3809.7	3909.7	4554.8
35°	7187.1	7096.8	6812.9	6096.8	4958.1	3816.1	3225.8	3693.5	3993.5	4112.9	4716.1
37.5°	7577.4	7616.1	7451.6	6829.0	5803.2	4474.2	3629.0	3693.5	4051.6	4190.3	4977.4
40°	7880.6	7996.8	7935.5	7735.5	6641.9	5216.1	4074.2	3922.6	4345.2	4606.4	5467.7
42.5°	8245.2	8190.3	8551.6	8367.7	7738.7	6151.6	4854.8	4467.7	5038.7	5290.3	6203.2
45°	8438.7	8648.4	8922.6	9158.1	8754.8	7319.3	5874.2	5432.3	6100.0	6419.3	7296.8
47.5°	8935.5	9019.3	9464.5	9761.3	9580.6	8654.8	7422.6	6841.9	7435.5	7938.7	8548.4
50°	9225.8	9112.9	9735.5	10187.1	10290.3	9761.3	8809.7	8358.1	9022.6	9664.5	9719.3
52.5°	8971.0	9293.5	9916.1	10725.8	11012.9	10748.4	10438.7	10241.9	10709.7	11303.2	11038.7
55°	8077.4	8296.8	9812.9	11316.1	12241.9	12119.3	12406.4	12277.4	12748.4	13377.4	12580.6
57.5°	7358.1	7632.2	8964.5	11622.6	13387.1	13748.4	14109.7	14029.0	14596.8	15322.6	13887.1
60°	6909.7	7067.7	8351.6	11545.1	14064.5	15432.2	16248.4	15680.6	16606.4	17161.3	14909.7
62.5°	6132.3	6232.3	7458.1	10519.3	14267.7	16622.6	18006.4	17235.5	18038.7	18716.1	15645.1
65°	4916.1	5187.1	6200.0	8983.9	12925.8	16841.9	19103.2	18196.8	18974.2	19419.3	15867.7
66°	4474.2	4671.0	5600.0	8171.0	12161.3	16477.4	18919.3	18396.8	19109.7	19516.1	15525.8
67.5°	3712.9	3883.9	4622.6	7012.9	10596.8	15674.2	19048.4	18261.3	19212.9	18964.5	15067.7
70°	2458.1	2567.7	3161.3	4741.9	7380.6	12822.6	17667.7	17203.2	16890.3	15958.0	11780.6
72.5°	1148.4	1306.4	1974.2	2874.2	4329.0	8971.0	14406.4	13783.9	11845.1	10354.8	7432.2
75°	519.4	590.3	1083.9	1648.4	1941.9	4648.4	9293.5	8393.5	5896.8	4896.8	3254.8
77.5°	280.6	319.4	529.0	783.9	706.5	1629.0	4600.0	3825.8	1858.1	1361.3	945.2
80°	216.1	254.8	441.9	448.4	261.3	422.6	1709.7	1183.9	464.5	351.6	225.8
82.5°	112.9	161.3	348.4	290.3	132.3	171.0	529.0	329.0	145.2	116.1	96.8
85°	45.2	71.0	196.8	193.5	77.4	58.1	148.4	100.0	58.1	48.4	45.2
87.5°	3.2	3.2	106.5	74.2	48.4	16.1	22.6	22.6	29.0	25.8	32.3
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°	3419.4	3419.4	3419.4	3419.4	3419.4	3419.4	3419.4	3419.4	3419.4	3419.4	3419.4
2.5°	3503.2	3541.9	3548.4	3654.8	3677.4	3654.8	3712.9	3703.2	3729.0	3709.7	3674.2
5°	3583.9	3638.7	3745.2	3825.8	3825.8	3761.3	3709.7	3641.9	3541.9	3516.1	3496.8
7.5°	3722.6	3896.8	3993.5	3941.9	3838.7	3596.8	3261.3	3016.1	2809.7	2732.3	2696.8
10°	3967.7	4064.5	4177.4	3967.7	3538.7	3025.8	2461.3	2090.3	1800.0	1735.5	1687.1
12.5°	4125.8	4280.6	4345.2	3825.8	2983.9	2219.4	1606.4	1187.1	983.9	829.0	803.2
15°	4332.3	4509.7	4377.4	3441.9	2351.6	1454.8	832.3	519.4	422.6	396.8	396.8
17.5°	4474.2	4667.7	4245.2	2964.5	1667.7	774.2	412.9	358.1	351.6	354.8	348.4
20°	4722.6	4838.7	4045.2	2409.7	996.8	396.8	332.3	319.4	312.9	322.6	316.1
22.5°	4816.1	4922.6	3719.4	1745.2	448.4	264.5	248.4	238.7	245.2	241.9	238.7
25°	4809.7	4864.5	3183.9	1000.0	132.3	103.2	93.5	93.5	87.1	90.3	87.1
27.5°	4858.1	4722.6	2583.9	296.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	4883.9	4493.5	1838.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4896.8	4374.2	1183.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	4996.8	4135.5	506.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5064.5	3829.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5345.2	3732.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5709.7	3551.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6216.1	3283.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6887.1	3125.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7387.1	2877.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8022.6	2729.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8777.4	2735.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9464.5	2690.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9816.1	2300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9741.9	1861.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9483.9	1461.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	9306.4	1293.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8767.7	1035.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6977.4	709.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4438.7	435.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2045.2	200.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	641.9	122.6	25.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	167.7	77.4	25.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	87.1	54.8	22.6	9.7	6.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	54.8	22.6	9.7	6.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	48.4	12.9	6.5	6.5	3.2	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)