

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: P482971

Luminaire Tested: **IFLD-S-SA6D-827-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482971
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-827-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

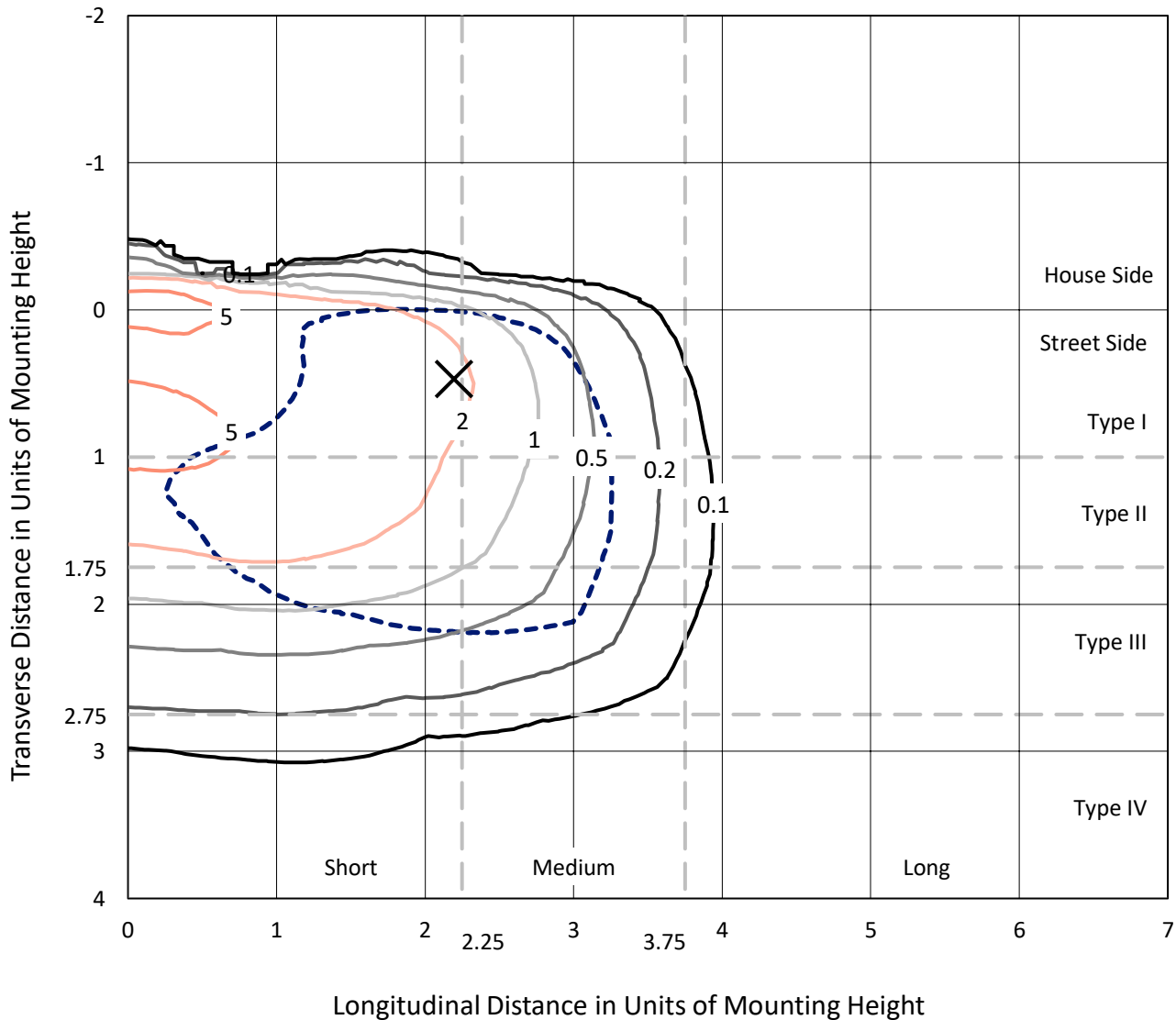
Lumens per Lamp: N/A
Luminaire Lumens: 24092.4 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 368.2
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

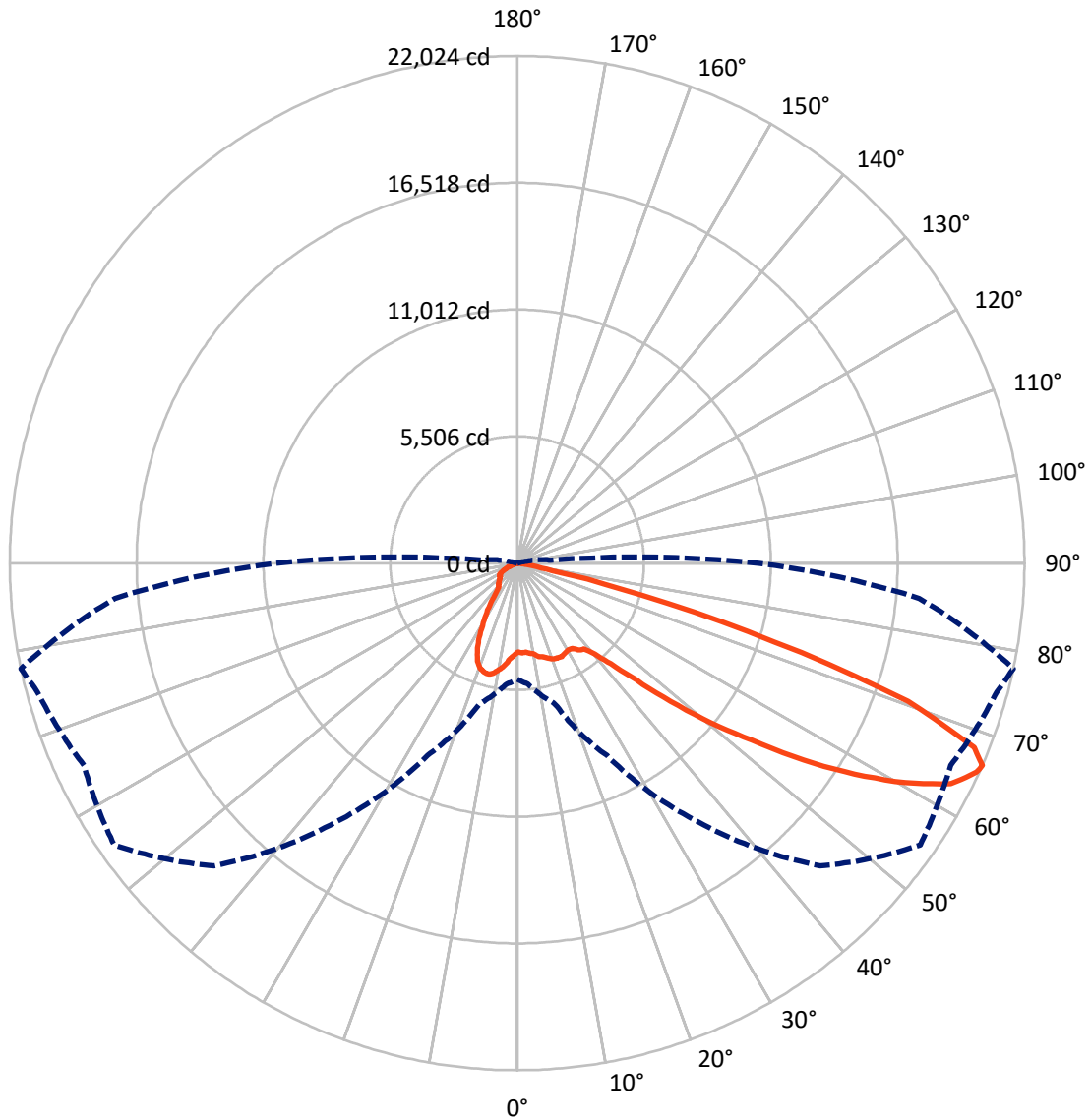
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	1693.8	0.0	1693.8
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	22398.6	0.0	22398.6
	% Fixture	93.0	0.0	93.0
Total	Lumens	24092.4	0.0	24092.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.0	1.5
10°-20°	796.9	3.3
20°-30°	1139.0	4.7
30°-40°	1949.7	8.1
40°-50°	3519.0	14.6
50°-60°	6018.0	25.0
60°-70°	7407.1	30.7
70°-80°	2800.3	11.6
80°-90°	109.4	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°	24092.4	100.0
0°-180°	24092.4	100.0

Coefficient of Utilization

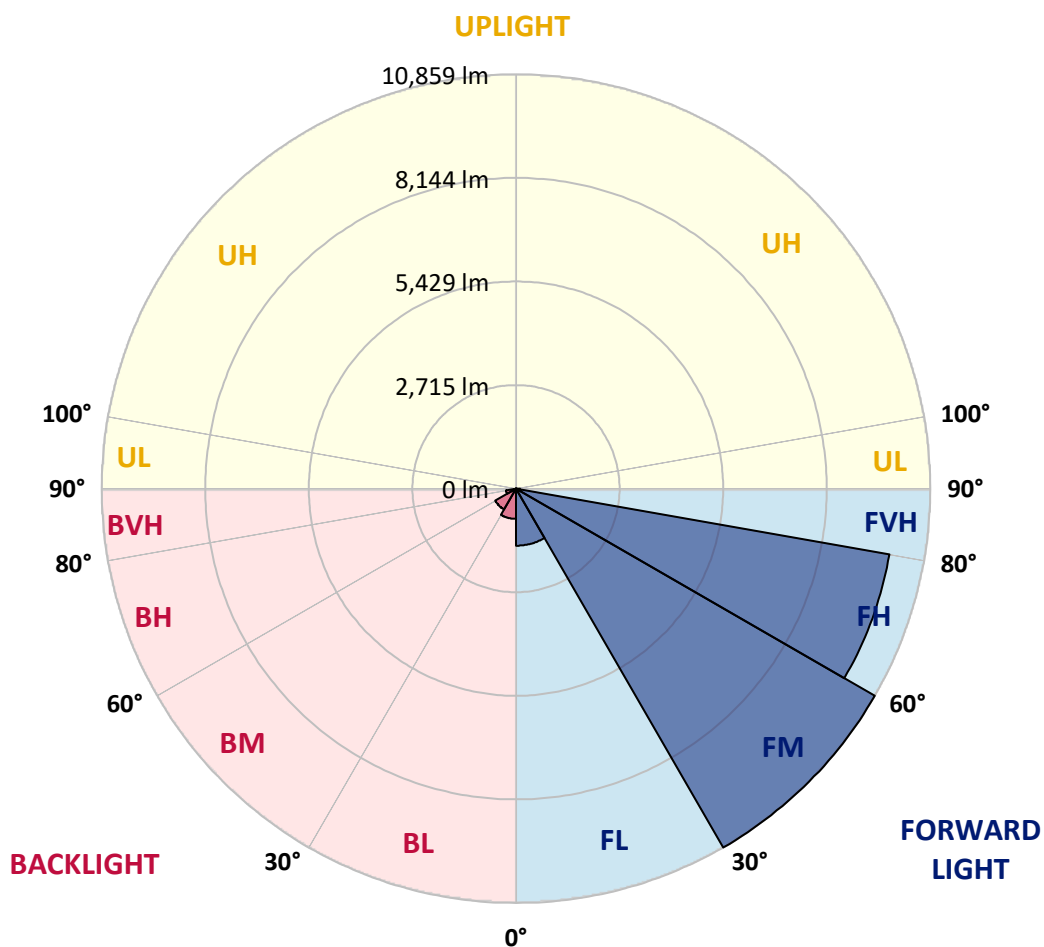


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1495.7	6.2			
FM (30°-60°)	10858.9	45.1			
FH (60°-80°)	9939.0	41.3			G4/12000
FVH (80°-90°)	105.0	0.4			G2/225
BL (0°-30°)	793.3	3.3	B2/1000		
BM (30°-60°)	627.8	2.6	B1/1000		
BH (60°-80°)	268.4	1.1	B1/500		G1/500
BVH (80°-90°)	4.4	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°	3858.8	3858.8	3858.8	3858.8	3858.8	3858.8	3858.8	3858.8	3858.8	3858.8	3858.8
2.5°	3549.4	3516.6	3549.4	3596.7	3622.2	3644.0	3720.5	3786.0	3855.2	3902.5	3887.9
5°	3290.9	3352.8	3360.1	3374.6	3414.7	3545.7	3589.4	3702.3	3873.4	3887.9	3953.5
7.5°	3087.1	3068.9	3116.2	3210.8	3312.8	3389.2	3516.6	3713.2	3891.6	3953.5	4080.9
10°	2792.2	2828.6	2879.6	2974.2	3098.0	3287.3	3513.0	3731.4	3986.2	4008.1	4244.7
12.5°	2632.0	2595.6	2675.7	2774.0	2985.1	3159.9	3436.5	3698.6	4044.5	4164.6	4437.6
15°	2501.0	2519.2	2595.6	2661.1	2835.9	3057.9	3381.9	3778.7	4142.8	4226.5	4641.5
17.5°	2446.3	2435.4	2493.7	2559.2	2774.0	3025.2	3360.1	3782.4	4230.1	4339.3	4779.8
20°	2471.8	2493.7	2475.5	2537.4	2672.0	2926.9	3392.8	3851.5	4295.7	4444.9	4929.1
22.5°	2872.3	2843.1	2697.5	2581.0	2588.3	2886.8	3367.4	3895.2	4353.9	4474.0	5031.0
25°	3917.1	3760.5	3400.1	2952.4	2657.5	2777.6	3338.2	3880.7	4343.0	4492.2	5092.9
27.5°	4969.1	4834.4	4481.3	3786.0	2937.8	2733.9	3236.3	3891.6	4288.4	4426.7	4991.0
30°	6079.5	6152.3	5628.0	4801.7	3673.2	2974.2	3170.8	3833.3	4252.0	4368.5	5012.8
32.5°	7218.9	7189.8	6873.1	5977.5	4725.2	3505.7	3276.4	3891.6	4299.3	4412.2	5140.2
35°	8110.8	8008.9	7688.5	6880.3	5595.3	4306.6	3640.4	4168.3	4506.8	4641.5	5322.3
37.5°	8551.3	8595.0	8409.3	7706.7	6549.1	5049.2	4095.4	4168.3	4572.3	4728.9	5617.1
40°	8893.5	9024.5	8955.4	8729.7	7495.6	5886.5	4597.8	4426.7	4903.6	5198.5	6170.5
42.5°	9304.8	9243.0	9650.7	9443.2	8733.3	6942.2	5478.8	5041.9	5686.3	5970.2	7000.5
45°	9523.3	9759.9	10069.3	10335.1	9880.0	8260.1	6629.2	6130.4	6884.0	7244.4	8234.6
47.5°	10083.9	10178.5	10680.9	11015.8	10812.0	9767.2	8376.5	7721.3	8391.1	8959.0	9647.0
50°	10411.5	10284.1	10986.7	11496.4	11612.9	11015.8	9941.9	9432.3	10182.2	10906.6	10968.5
52.5°	10123.9	10488.0	11190.6	12104.3	12428.3	12129.8	11780.3	11558.3	12086.1	12755.9	12457.4
55°	9115.5	9363.1	11074.1	12770.5	13815.3	13677.0	14001.0	13855.3	14386.8	15096.7	14197.5
57.5°	8303.7	8613.2	10116.7	13116.3	15107.6	15515.4	15923.1	15832.1	16472.8	17291.9	15671.9
60°	7797.7	7976.1	9425.0	13029.0	15872.1	17415.6	18336.7	17696.0	18740.7	19366.9	16825.9
62.5°	6920.4	7033.2	8416.6	11871.3	16101.5	18759.0	20320.7	19450.6	20357.1	21121.6	17655.9
65°	5548.0	5853.8	6996.8	10138.5	14587.1	19006.5	21558.4	20535.5	21412.8	21915.2	17907.1
66°	5049.2	5271.3	6319.7	9221.1	13724.3	18595.1	21350.9	20761.2	21565.7	22024.4	17521.2
67.5°	4190.1	4383.0	5216.7	7914.2	11958.7	17688.7	21496.5	20608.3	21682.2	21401.9	17004.3
70°	2774.0	2897.8	3567.6	5351.4	8329.2	14470.6	19938.4	19414.2	19061.1	18009.0	13294.7
72.5°	1296.0	1474.4	2227.9	3243.6	4885.4	10123.9	16258.0	15555.4	13367.5	11685.7	8387.5
75°	586.1	666.2	1223.2	1860.2	2191.5	5245.8	10488.0	9472.3	6654.6	5526.1	3673.2
77.5°	316.7	360.4	597.0	884.6	797.2	1838.4	5191.2	4317.5	2096.9	1536.2	1066.6
80°	243.9	287.6	498.7	506.0	294.9	476.9	1929.4	1336.0	524.2	396.8	254.8
82.5°	127.4	182.0	393.2	327.6	149.3	192.9	597.0	371.3	163.8	131.1	109.2
85°	51.0	80.1	222.1	218.4	87.4	65.5	167.5	112.9	65.5	54.6	51.0
87.5°	3.6	3.6	120.1	83.7	54.6	18.2	25.5	25.5	32.8	29.1	36.4
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°	3858.8	3858.8	3858.8	3858.8	3858.8	3858.8	3858.8	3858.8	3858.8	3858.8	3858.8
2.5°	3953.5	3997.2	4004.4	4124.6	4150.0	4124.6	4190.1	4179.2	4208.3	4186.5	4146.4
5°	4044.5	4106.4	4226.5	4317.5	4317.5	4244.7	4186.5	4110.0	3997.2	3968.0	3946.2
7.5°	4201.0	4397.6	4506.8	4448.6	4332.1	4059.0	3680.4	3403.8	3170.8	3083.4	3043.4
10°	4477.7	4586.9	4714.3	4477.7	3993.5	3414.7	2777.6	2359.0	2031.3	1958.5	1903.9
12.5°	4656.1	4830.8	4903.6	4317.5	3367.4	2504.6	1812.9	1339.7	1110.3	935.6	906.5
15°	4889.0	5089.3	4940.0	3884.3	2653.8	1641.8	939.2	586.1	476.9	447.8	447.8
17.5°	5049.2	5267.7	4790.8	3345.5	1882.1	873.7	466.0	404.1	396.8	400.4	393.2
20°	5329.5	5460.6	4565.1	2719.4	1124.9	447.8	375.0	360.4	353.1	364.0	356.8
22.5°	5435.1	5555.2	4197.4	1969.5	506.0	298.5	280.3	269.4	276.7	273.0	269.4
25°	5427.8	5489.7	3593.1	1128.5	149.3	116.5	105.6	105.6	98.3	101.9	98.3
27.5°	5482.4	5329.5	2916.0	334.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	5511.6	5071.1	2075.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5526.1	4936.4	1336.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	5639.0	4667.0	571.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5715.4	4321.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6032.1	4211.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6443.5	4008.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7015.0	3705.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7772.2	3527.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8336.5	3247.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9053.7	3079.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9905.5	3087.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10680.9	3036.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	11077.7	2595.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10994.0	2100.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10702.8	1649.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	10502.5	1459.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9894.6	1168.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7874.2	800.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5009.2	491.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2308.0	225.7	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	724.4	138.3	29.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	189.3	87.4	29.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	98.3	61.9	25.5	10.9	7.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	61.9	25.5	10.9	7.3	7.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	54.6	14.6	7.3	7.3	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)