

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: P483010

Luminaire Tested: **IFLD-S-SA6D-830-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483010
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-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

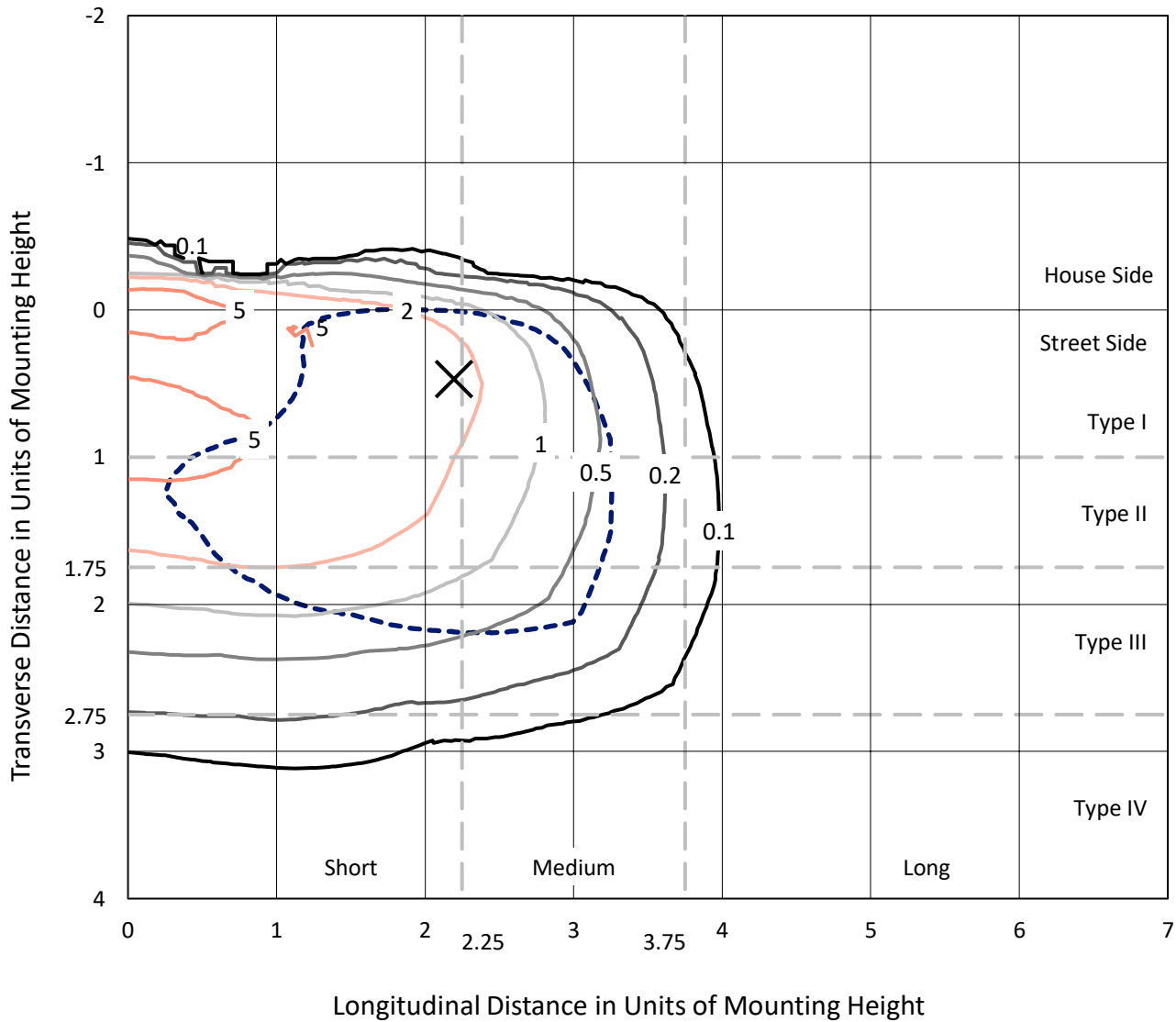
Lumens per Lamp: N/A
Luminaire Lumens: 26042.5 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (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

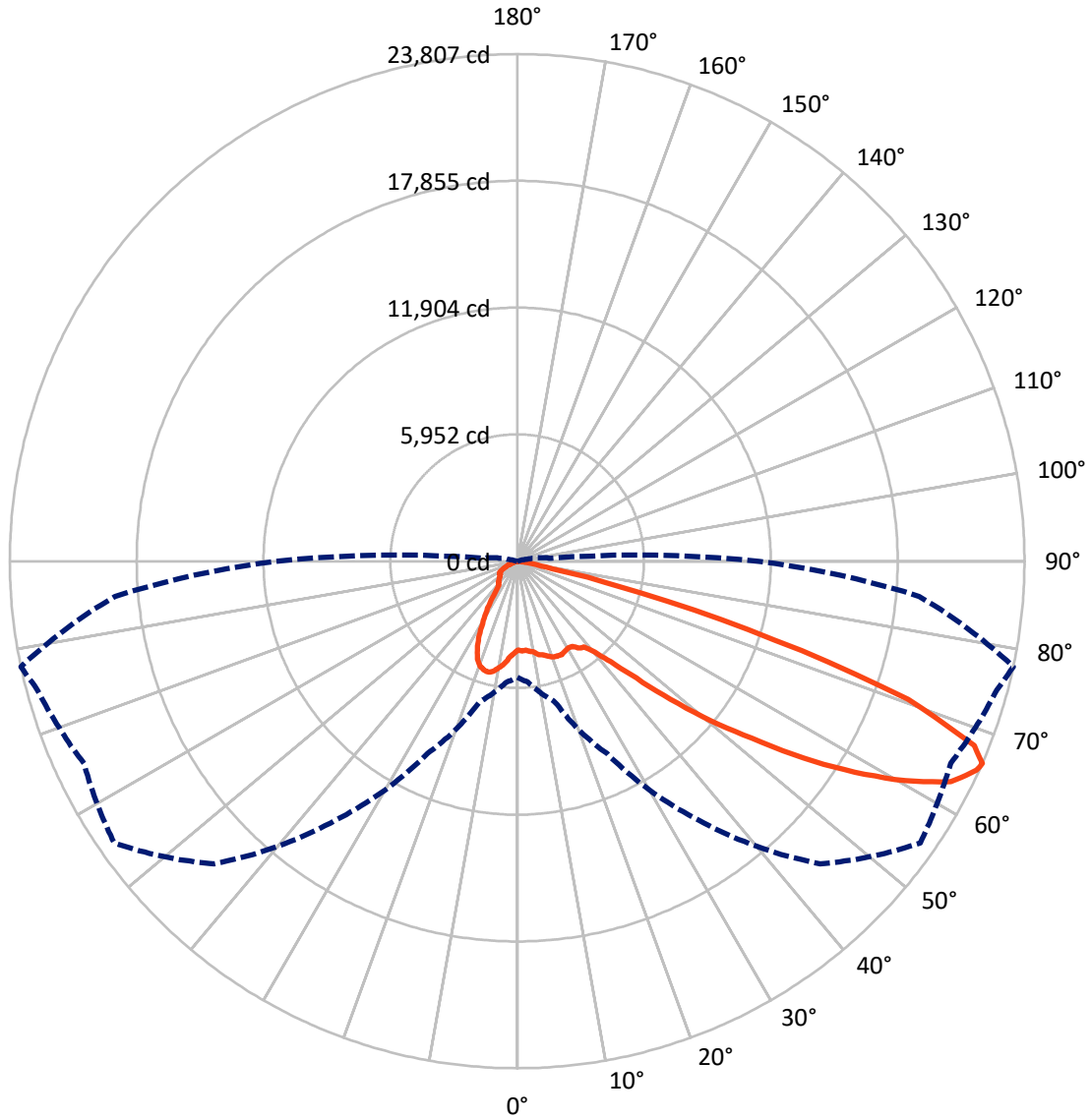
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	1830.9	0.0	1830.9
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	24211.6	0.0	24211.6
	% Fixture	93.0	0.0	93.0
Total	Lumens	26042.5	0.0	26042.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.6	1.5
10°-20°	861.4	3.3
20°-30°	1231.2	4.7
30°-40°	2107.5	8.1
40°-50°	3803.8	14.6
50°-60°	6505.1	25.0
60°-70°	8006.6	30.7
70°-80°	3026.9	11.6
80°-90°	118.2	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°	26042.5	100.0
0°-180°	26042.5	100.0

Coefficient of Utilization

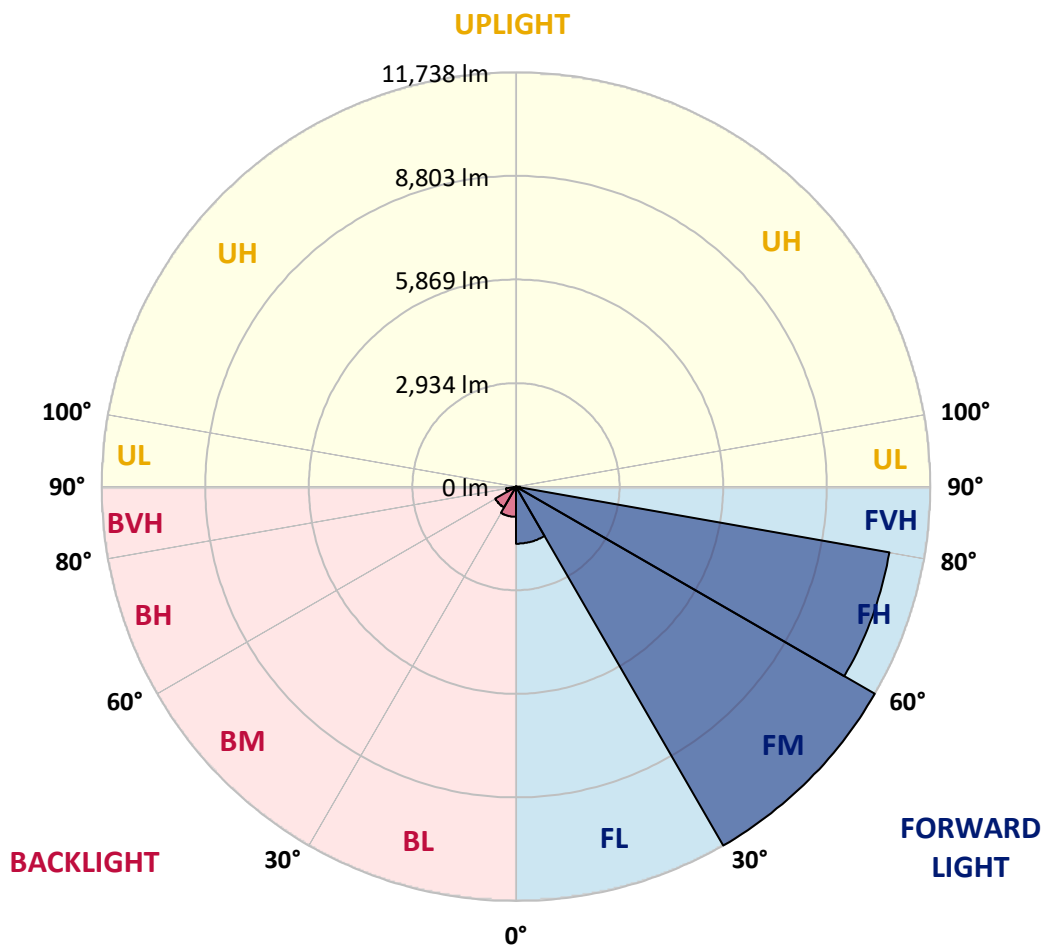


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1616.7	6.2			
FM (30°-60°)	11737.9	45.1			
FH (60°-80°)	10743.5	41.3			G4/12000
FVH (80°-90°)	113.5	0.4			G2/225
BL (0°-30°)	857.5	3.3	B2/1000		
BM (30°-60°)	678.6	2.6	B1/1000		
BH (60°-80°)	290.1	1.1	B1/500		G1/500
BVH (80°-90°)	4.7	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°	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2
2.5°	3836.7	3801.3	3836.7	3887.8	3915.4	3939.0	4021.6	4092.5	4167.2	4218.4	4202.6
5°	3557.3	3624.2	3632.1	3647.8	3691.1	3832.7	3880.0	4001.9	4186.9	4202.6	4273.5
7.5°	3336.9	3317.2	3368.4	3470.7	3580.9	3663.5	3801.3	4013.8	4206.6	4273.5	4411.2
10°	3018.2	3057.5	3112.6	3214.9	3348.7	3553.4	3797.3	4033.4	4308.9	4332.5	4588.3
12.5°	2845.0	2805.7	2892.3	2998.5	3226.7	3415.6	3714.7	3998.0	4371.8	4501.7	4796.8
15°	2703.4	2723.1	2805.7	2876.5	3065.4	3305.4	3655.7	4084.6	4478.1	4568.6	5017.2
17.5°	2644.4	2632.6	2695.5	2766.3	2998.5	3270.0	3632.1	4088.5	4572.5	4690.6	5166.7
20°	2671.9	2695.5	2675.8	2742.7	2888.3	3163.8	3667.5	4163.3	4643.4	4804.7	5328.1
22.5°	3104.8	3073.3	2915.9	2790.0	2797.8	3120.5	3639.9	4210.5	4706.3	4836.2	5438.2
25°	4234.1	4064.9	3675.3	3191.3	2872.6	3002.4	3608.4	4194.8	4694.5	4855.9	5505.1
27.5°	5371.3	5225.8	4844.0	4092.5	3175.6	2955.2	3498.3	4206.6	4635.5	4785.0	5395.0
30°	6571.5	6650.2	6083.6	5190.3	3970.5	3214.9	3427.4	4143.6	4596.1	4722.1	5418.6
32.5°	7803.2	7771.7	7429.4	6461.4	5107.7	3789.5	3541.5	4206.6	4647.3	4769.3	5556.3
35°	8767.3	8657.1	8310.8	7437.2	6048.2	4655.2	3935.1	4505.6	4871.6	5017.2	5753.0
37.5°	9243.4	9290.7	9090.0	8330.5	7079.2	5457.9	4426.9	4505.6	4942.4	5111.6	6071.8
40°	9613.3	9755.0	9680.2	9436.3	8102.3	6363.0	4970.0	4785.0	5300.5	5619.3	6669.9
42.5°	10058.0	9991.1	10431.8	10207.5	9440.2	7504.1	5922.3	5450.0	6146.6	6453.5	7567.1
45°	10294.1	10549.9	10884.4	11171.6	10679.7	8928.6	7165.7	6626.6	7441.2	7830.8	8901.1
47.5°	10900.1	11002.4	11545.4	11907.5	11687.1	10557.7	9054.6	8346.2	9070.3	9684.2	10427.9
50°	11254.3	11116.5	11876.0	12426.9	12552.8	11907.5	10746.6	10195.7	11006.3	11789.4	11856.3
52.5°	10943.4	11336.9	12096.4	13084.1	13434.3	13111.6	12733.8	12493.8	13064.4	13788.4	13465.8
55°	9853.4	10121.0	11970.4	13804.2	14933.5	14784.0	15134.2	14976.8	15551.3	16318.7	15346.7
57.5°	8975.9	9310.3	10935.5	14178.0	16330.5	16771.2	17211.9	17113.5	17806.1	18691.5	16940.4
60°	8428.9	8621.7	10187.9	14083.6	17156.8	18825.3	19820.9	19128.3	20257.7	20934.5	18187.8
62.5°	7480.5	7602.5	9097.8	12832.2	17404.7	20277.3	21965.5	21025.0	22004.8	22831.2	19085.0
65°	5997.0	6327.6	7563.2	10959.1	15767.8	20544.9	23303.4	22197.6	23146.0	23689.0	19356.5
66°	5457.9	5698.0	6831.3	9967.5	14835.1	20100.2	23079.1	22441.6	23311.3	23807.1	18939.4
67.5°	4529.2	4737.8	5638.9	8554.8	12926.6	19120.4	23236.5	22276.3	23437.2	23134.2	18380.6
70°	2998.5	3132.3	3856.4	5784.5	9003.4	15641.8	21552.3	20985.6	20603.9	19466.7	14370.8
72.5°	1400.9	1593.7	2408.3	3506.1	5280.8	10943.4	17573.9	16814.5	14449.5	12631.5	9066.4
75°	633.5	720.1	1322.2	2010.8	2368.9	5670.4	11336.9	10239.0	7193.3	5973.4	3970.5
77.5°	342.3	389.6	645.3	956.2	861.8	1987.2	5611.4	4667.0	2266.6	1660.6	1153.0
80°	263.6	310.9	539.1	547.0	318.7	515.5	2085.6	1444.2	566.6	428.9	275.5
82.5°	137.7	196.8	425.0	354.2	161.3	208.6	645.3	401.4	177.1	141.7	118.1
85°	55.1	86.6	240.0	236.1	94.4	70.8	181.0	122.0	70.8	59.0	55.1
87.5°	3.9	3.9	129.9	90.5	59.0	19.7	27.5	27.5	35.4	31.5	39.4
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°	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2
2.5°	4273.5	4320.7	4328.6	4458.4	4486.0	4458.4	4529.2	4517.4	4548.9	4525.3	4482.0
5°	4371.8	4438.7	4568.6	4667.0	4667.0	4588.3	4525.3	4442.7	4320.7	4289.2	4265.6
7.5°	4541.1	4753.5	4871.6	4808.6	4682.7	4387.6	3978.3	3679.3	3427.4	3333.0	3289.7
10°	4840.1	4958.2	5095.9	4840.1	4316.8	3691.1	3002.4	2549.9	2195.8	2117.1	2058.0
12.5°	5032.9	5221.8	5300.5	4667.0	3639.9	2707.3	1959.7	1448.1	1200.2	1011.3	979.8
15°	5284.8	5501.2	5339.9	4198.7	2868.7	1774.7	1015.2	633.5	515.5	484.0	484.0
17.5°	5457.9	5694.0	5178.5	3616.3	2034.4	944.4	503.7	436.8	428.9	432.9	425.0
20°	5760.9	5902.6	4934.6	2939.5	1215.9	484.0	405.3	389.6	381.7	393.5	385.6
22.5°	5875.0	6004.9	4537.1	2128.9	547.0	322.7	303.0	291.2	299.1	295.1	291.2
25°	5867.2	5934.1	3883.9	1219.9	161.3	125.9	114.1	114.1	106.2	110.2	106.2
27.5°	5926.2	5760.9	3152.0	362.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	5957.7	5481.5	2243.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5973.4	5335.9	1444.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	6095.4	5044.7	617.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6178.0	4670.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6520.4	4552.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6965.0	4332.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7582.8	4005.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8401.3	3813.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	9011.3	3510.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9786.5	3329.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10707.3	3336.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11545.4	3281.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	11974.4	2805.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11883.9	2270.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11569.1	1782.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	11352.6	1578.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10695.5	1263.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8511.5	865.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5414.6	531.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2494.8	244.0	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	783.1	149.5	31.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	204.6	94.4	31.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	106.2	66.9	27.5	11.8	7.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	66.9	27.5	11.8	7.9	7.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	59.0	15.7	7.9	7.9	3.9	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)