

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: P482751

Luminaire Tested: **IFLD-L-SA8C-727-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482751
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-727-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

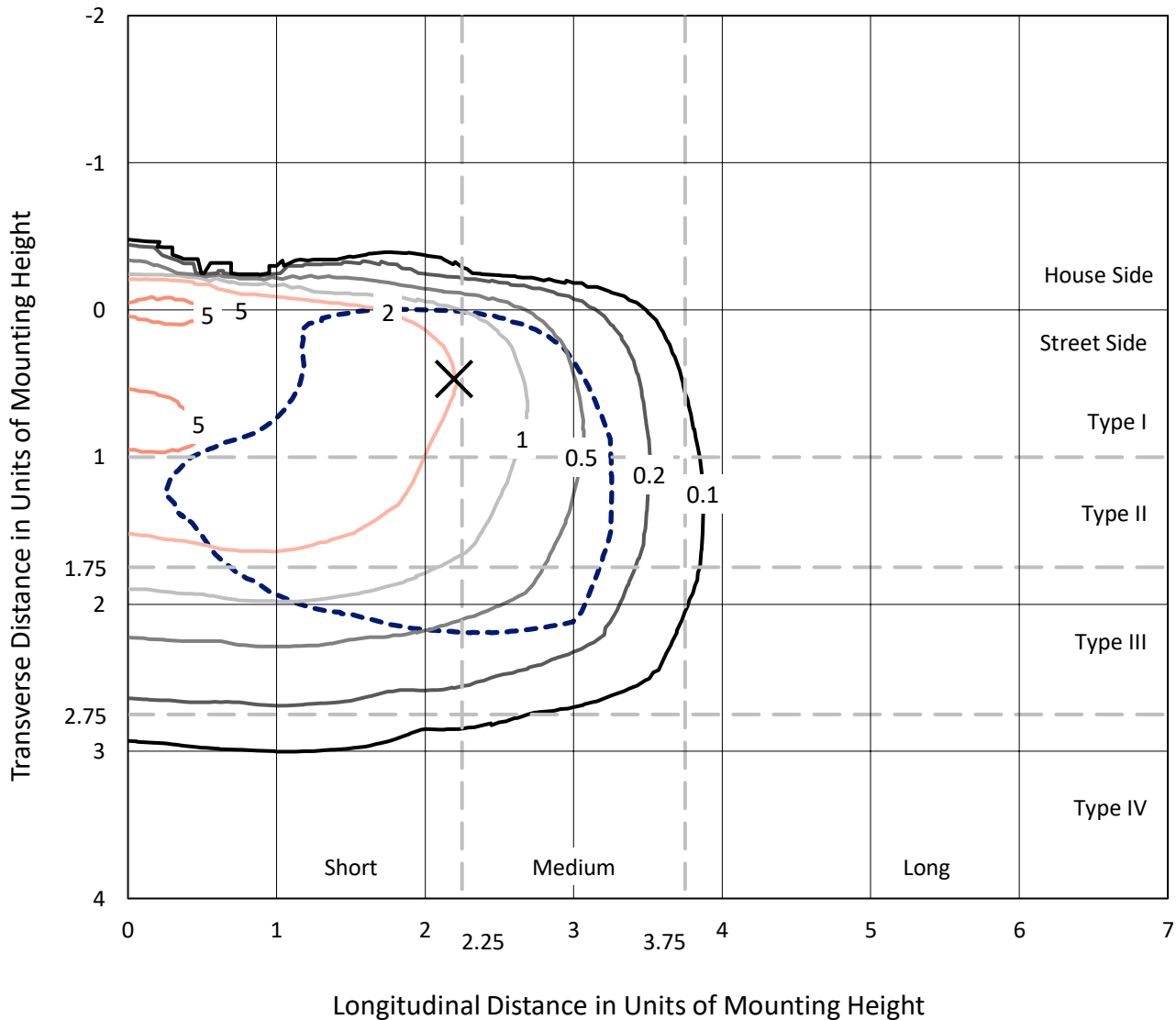
Lumens per Lamp: N/A
Luminaire Lumens: 30371.8 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
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

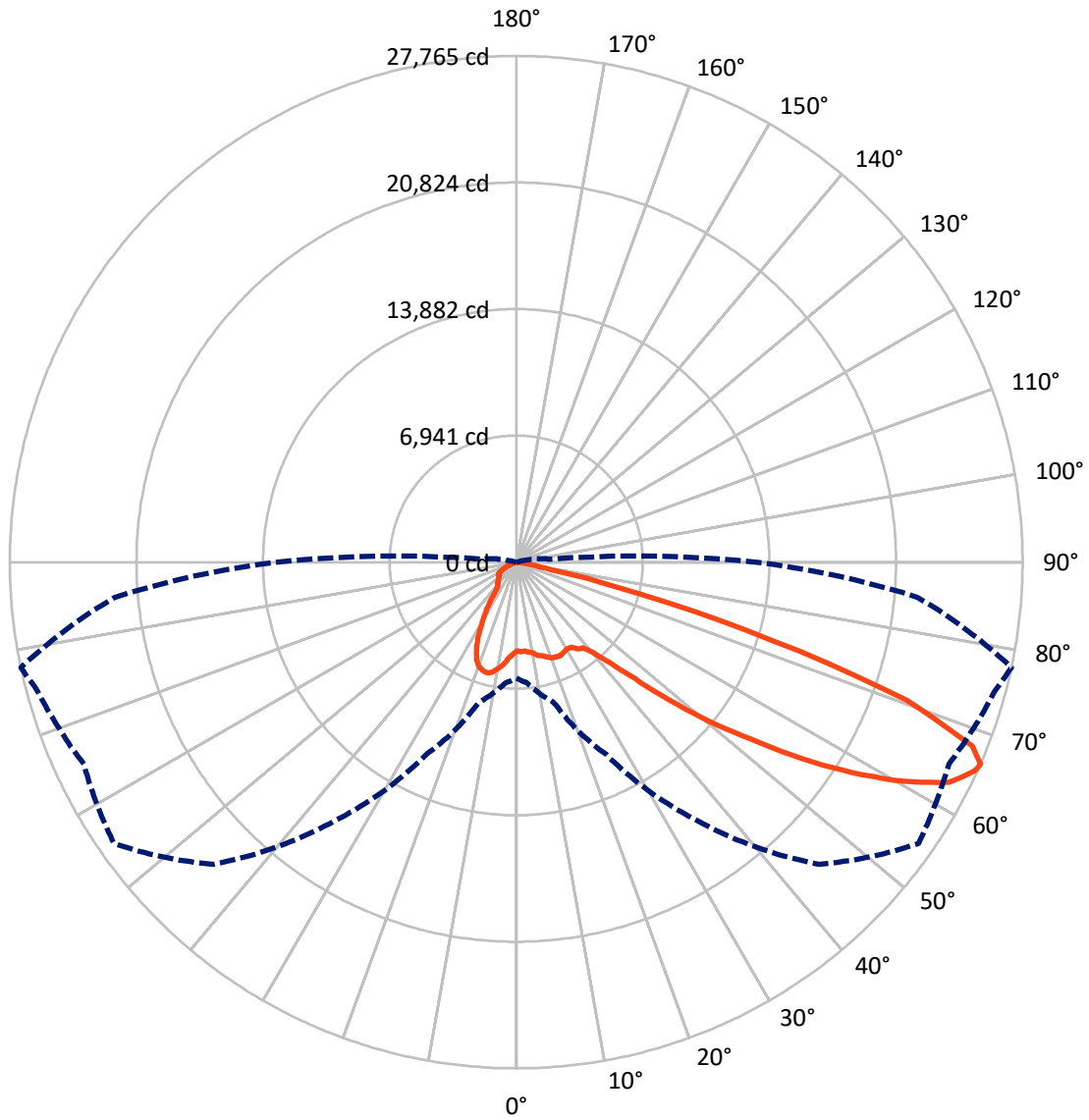
✕ Max cd
 - - - 1/2 Max cd



Based on 30 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	2135.3	0.0	2135.3
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	28236.6	0.0	28236.6
	% Fixture	93.0	0.0	93.0
Total	Lumens	30371.8	0.0	30371.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.0	1.5
10°-20°	1004.6	3.3
20°-30°	1435.9	4.7
30°-40°	2457.9	8.1
40°-50°	4436.2	14.6
50°-60°	7586.5	25.0
60°-70°	9337.6	30.7
70°-80°	3530.1	11.6
80°-90°	137.9	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°	30371.8	100.0
0°-180°	30371.8	100.0

Coefficient of Utilization

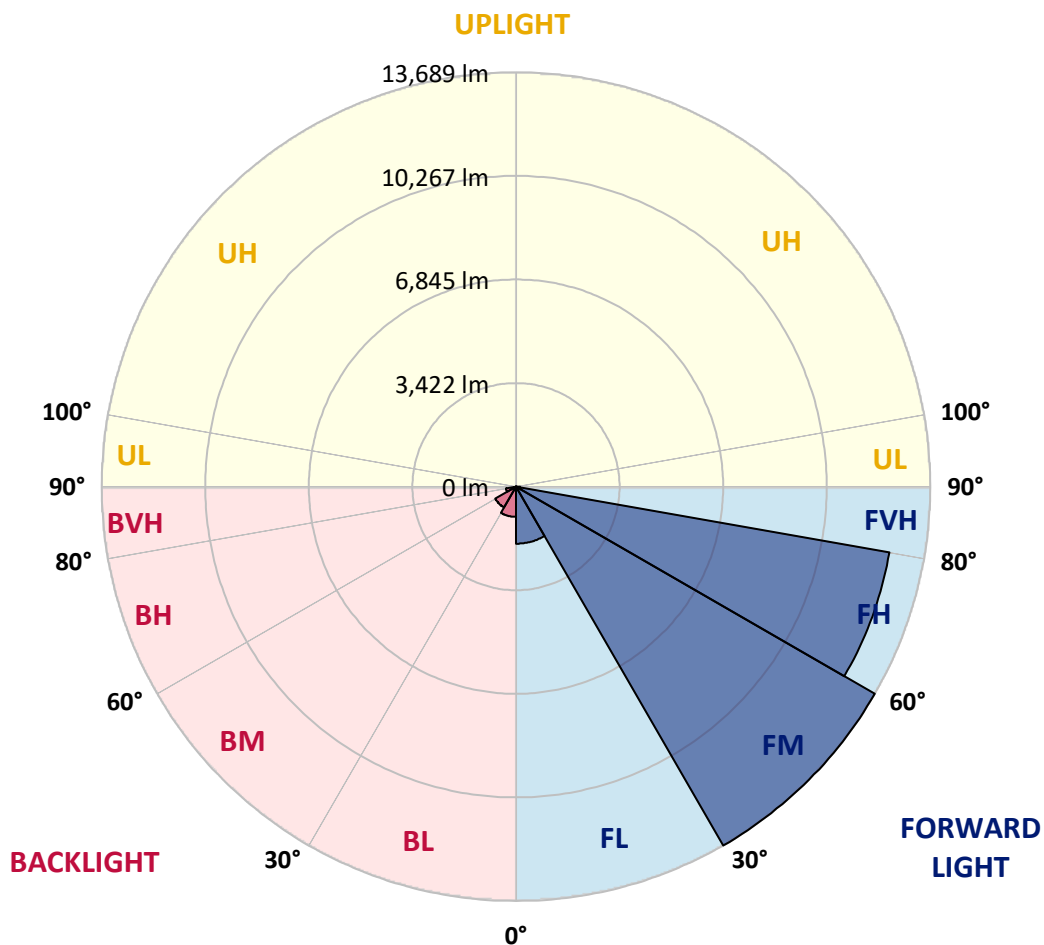


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1885.5	6.2			
FM (30°-60°)	13689.2	45.1			
FH (60°-80°)	12529.5	41.3			G5
FVH (80°-90°)	132.4	0.4			G2/225
BL (0°-30°)	1000.0	3.3	B3/2500		
BM (30°-60°)	791.4	2.6	B1/1000		
BH (60°-80°)	338.3	1.1	B1/500		G1/500
BVH (80°-90°)	5.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4864.6	4864.6	4864.6	4864.6	4864.6	4864.6	4864.6	4864.6	4864.6	4864.6	4864.6
2.5°	4474.5	4433.2	4474.5	4534.2	4566.3	4593.8	4690.2	4772.8	4860.0	4919.7	4901.3
5°	4148.7	4226.7	4235.9	4254.2	4304.7	4469.9	4525.0	4667.2	4882.9	4901.3	4983.9
7.5°	3891.7	3868.7	3928.4	4047.7	4176.2	4272.6	4433.2	4681.0	4905.9	4983.9	5144.5
10°	3519.9	3565.8	3630.1	3749.4	3905.4	4144.1	4428.6	4704.0	5025.2	5052.7	5351.0
12.5°	3318.0	3272.1	3373.1	3497.0	3763.2	3983.5	4332.2	4662.7	5098.6	5250.1	5594.3
15°	3152.8	3175.7	3272.1	3354.7	3575.0	3855.0	4263.4	4763.6	5222.5	5328.1	5851.3
17.5°	3084.0	3070.2	3143.6	3226.2	3497.0	3813.6	4235.9	4768.2	5332.7	5470.4	6025.7
20°	3116.1	3143.6	3120.7	3198.7	3368.5	3689.7	4277.2	4855.4	5415.3	5603.4	6213.8
22.5°	3620.9	3584.2	3400.6	3253.8	3262.9	3639.3	4245.0	4910.5	5488.7	5640.2	6342.3
25°	4938.0	4740.7	4286.3	3721.9	3350.1	3501.6	4208.3	4892.1	5474.9	5663.1	6420.3
27.5°	6264.3	6094.5	5649.3	4772.8	3703.5	3446.5	4079.8	4905.9	5406.1	5580.5	6291.8
30°	7664.0	7755.8	7094.9	6053.2	4630.5	3749.4	3997.2	4832.5	5360.2	5507.1	6319.4
32.5°	9100.4	9063.7	8664.5	7535.5	5956.8	4419.4	4130.3	4905.9	5419.9	5562.1	6480.0
35°	10224.8	10096.3	9692.5	8673.6	7053.6	5429.1	4589.2	5254.7	5681.5	5851.3	6709.5
37.5°	10780.1	10835.2	10601.1	9715.4	8256.0	6365.3	5162.9	5254.7	5764.1	5961.4	7081.2
40°	11211.5	11376.7	11289.5	11005.0	9449.2	7420.8	5796.2	5580.5	6181.7	6553.4	7778.7
42.5°	11730.1	11652.1	12166.0	11904.5	11009.6	8751.7	6906.8	6356.1	7168.4	7526.3	8825.1
45°	12005.4	12303.7	12693.8	13028.8	12455.2	10413.0	8357.0	7728.3	8678.2	9132.6	10380.8
47.5°	12712.2	12831.5	13464.8	13887.0	13630.0	12312.9	10559.8	9733.8	10578.2	11294.1	12161.5
50°	13125.2	12964.6	13850.3	14492.8	14639.6	13887.0	12533.2	11890.7	12836.1	13749.3	13827.3
52.5°	12762.6	13221.6	14107.3	15259.2	15667.6	15291.3	14850.7	14570.8	15236.2	16080.7	15704.3
55°	11491.4	11803.5	13960.4	16099.0	17416.1	17241.7	17650.2	17466.6	18136.6	19031.5	17898.0
57.5°	10468.0	10858.1	12753.5	16535.0	19045.3	19559.3	20073.3	19958.6	20766.3	21798.8	19756.6
60°	9830.1	10055.0	11881.5	16424.8	20009.0	21954.9	23115.9	22308.2	23625.3	24414.7	21211.4
62.5°	8724.1	8866.4	10610.3	14965.5	20298.2	23648.3	25617.1	24520.2	25663.0	26626.7	22257.8
65°	6994.0	7379.5	8820.5	12781.0	18389.0	23960.4	27177.4	25887.8	26993.8	27627.2	22574.4
66°	6365.3	6645.2	7966.9	11624.5	17301.4	23441.8	26915.8	26172.4	27186.6	27764.8	22088.0
67.5°	5282.2	5525.4	6576.4	9977.0	15075.6	22299.1	27099.4	25979.6	27333.4	26980.1	21436.3
70°	3497.0	3653.0	4497.4	6746.2	10500.2	18242.2	25135.2	24474.4	24029.2	22702.9	16759.9
72.5°	1633.8	1858.6	2808.6	4089.0	6158.7	12762.6	20495.5	19609.8	16851.6	14731.4	10573.6
75°	738.9	839.8	1542.0	2345.1	2762.7	6613.1	13221.6	11941.2	8389.1	6966.4	4630.5
77.5°	399.3	454.3	752.6	1115.2	1005.0	2317.6	6544.2	5442.8	2643.4	1936.7	1344.6
80°	307.5	362.5	628.7	637.9	371.7	601.2	2432.3	1684.2	660.8	500.2	321.2
82.5°	160.6	229.5	495.6	413.0	188.2	243.2	752.6	468.1	206.5	165.2	137.7
85°	64.2	101.0	279.9	275.4	110.1	82.6	211.1	142.3	82.6	68.8	64.2
87.5°	4.6	4.6	151.4	105.6	68.8	22.9	32.1	32.1	41.3	36.7	45.9
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°	4864.6	4864.6	4864.6	4864.6	4864.6	4864.6	4864.6	4864.6	4864.6	4864.6	4864.6
2.5°	4983.9	5039.0	5048.2	5199.6	5231.7	5199.6	5282.2	5268.4	5305.1	5277.6	5227.1
5°	5098.6	5176.6	5328.1	5442.8	5442.8	5351.0	5277.6	5181.2	5039.0	5002.3	4974.7
7.5°	5296.0	5543.8	5681.5	5608.0	5461.2	5117.0	4639.7	4290.9	3997.2	3887.1	3836.6
10°	5644.8	5782.4	5943.1	5644.8	5034.4	4304.7	3501.6	2973.8	2560.8	2469.0	2400.2
12.5°	5869.6	6089.9	6181.7	5442.8	4245.0	3157.4	2285.4	1688.8	1399.7	1179.4	1142.7
15°	6163.3	6415.7	6227.6	4896.7	3345.5	2069.7	1184.0	738.9	601.2	564.5	564.5
17.5°	6365.3	6640.6	6039.4	4217.5	2372.6	1101.4	587.4	509.4	500.2	504.8	495.6
20°	6718.6	6883.8	5754.9	3428.2	1418.1	564.5	472.7	454.3	445.2	458.9	449.7
22.5°	6851.7	7003.2	5291.4	2482.8	637.9	376.3	353.4	339.6	348.8	344.2	339.6
25°	6842.5	6920.6	4529.6	1422.7	188.2	146.9	133.1	133.1	123.9	128.5	123.9
27.5°	6911.4	6718.6	3676.0	422.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	6948.1	6392.8	2615.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6966.4	6223.0	1684.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	7108.7	5883.4	720.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	7205.1	5447.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7604.4	5309.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8122.9	5052.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8843.4	4671.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9798.0	4447.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10509.3	4093.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11413.4	3882.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	12487.3	3891.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	13464.8	3827.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13965.0	3272.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13859.5	2648.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13492.3	2078.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	13239.9	1840.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12473.5	1473.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9926.5	1009.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6314.8	619.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2909.6	284.5	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	913.3	174.4	36.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	238.6	110.1	36.7	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	123.9	78.0	32.1	13.8	9.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	78.0	32.1	13.8	9.2	9.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	68.8	18.4	9.2	9.2	4.6	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)