

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: P482400

Luminaire Tested: **IFLD-L-SA8C-730-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482400
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-730-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

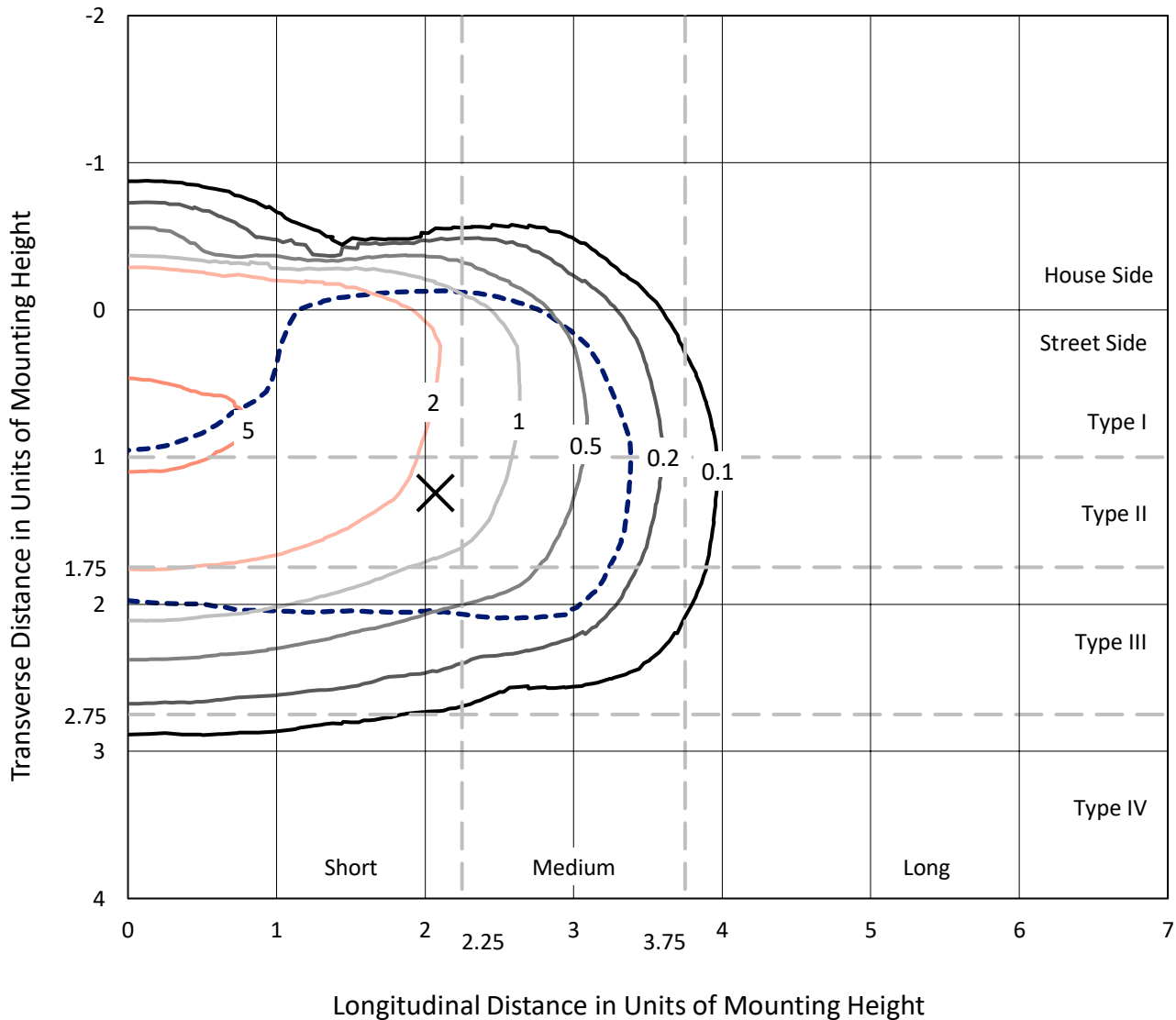
Lumens per Lamp: N/A
Luminaire Lumens: 34233 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

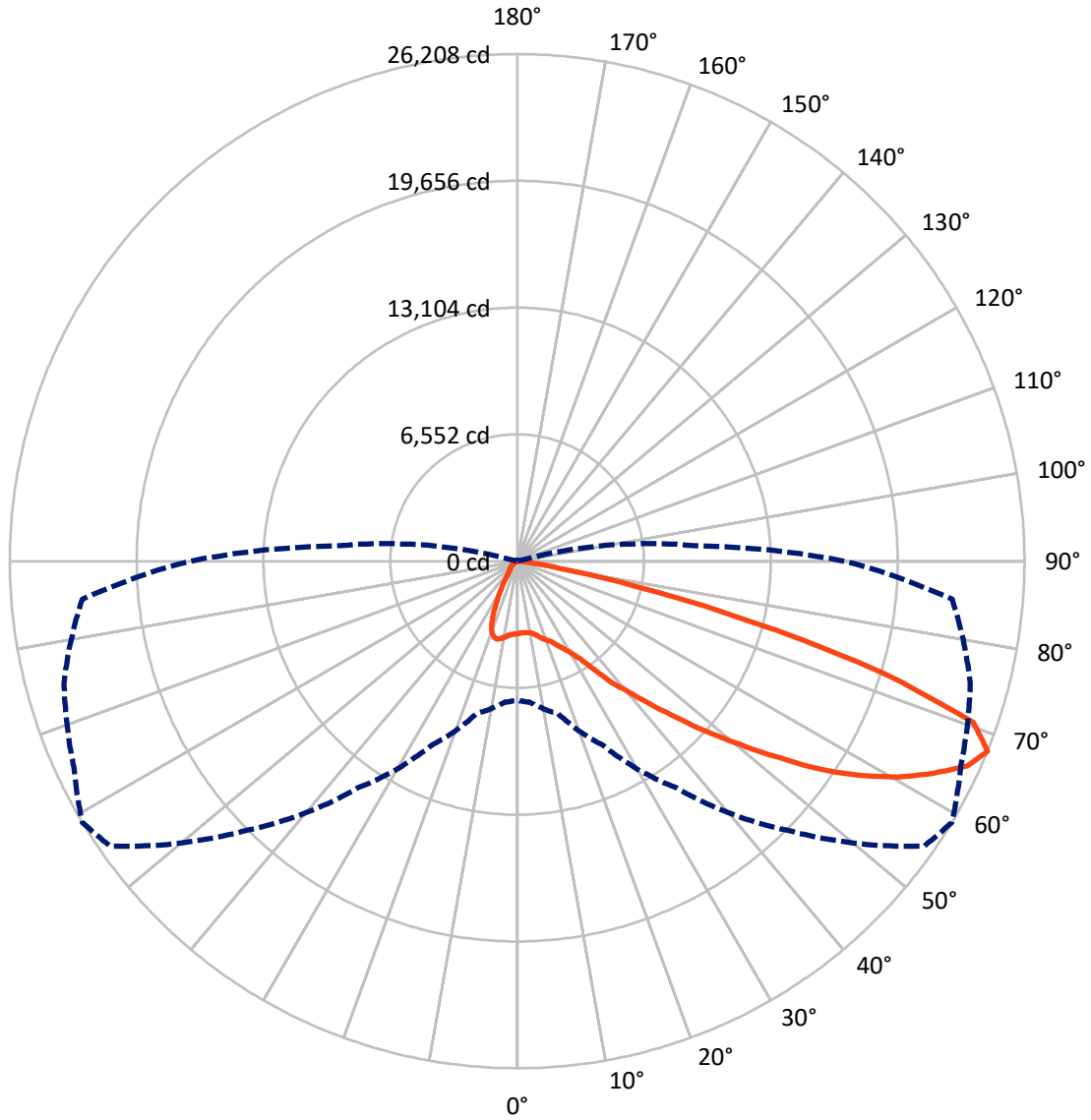
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4021.2	0.0	4021.2
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	30211.7	0.0	30211.7
	% Fixture	88.3	0.0	88.3
Total	Lumens	34233.0	0.0	34233.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.7	1.0
10°-20°	1030.2	3.0
20°-30°	1800.6	5.3
30°-40°	3170.2	9.3
40°-50°	5603.9	16.4
50°-60°	8873.0	25.9
60°-70°	9842.6	28.8
70°-80°	3415.1	10.0
80°-90°	140.6	0.4
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°	34233.0	100.0
0°-180°	34233.0	100.0

Coefficient of Utilization

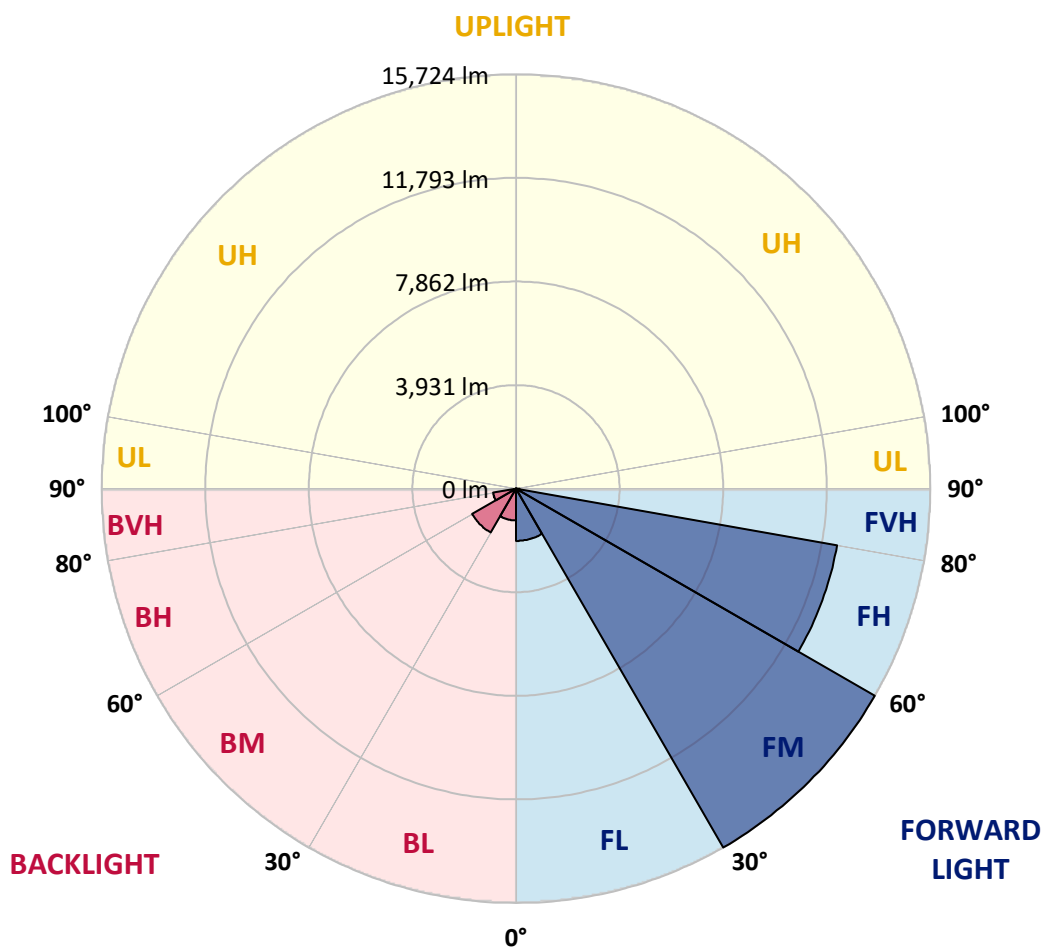


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1982.3	5.8			
FM (30°-60°)	15724.5	45.9			
FH (60°-80°)	12373.4	36.1			G5
FVH (80°-90°)	131.5	0.4			G2/225
BL (0°-30°)	1205.2	3.5	B3/2500		
BM (30°-60°)	1922.6	5.6	B2/2500		
BH (60°-80°)	884.3	2.6	B2/1000		G2/1000
BVH (80°-90°)	9.1	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°	59°	65°	75°	85°
0°	3754.7	3754.7	3754.7	3754.7	3754.7	3754.7	3754.7	3754.7	3754.7	3754.7	3754.7
2.5°	3646.0	3594.0	3641.3	3646.0	3650.7	3693.3	3740.6	3707.5	3702.7	3740.6	3773.7
5°	3499.4	3475.7	3532.5	3560.9	3608.1	3646.0	3721.6	3726.4	3731.1	3773.7	3830.4
7.5°	3437.9	3381.2	3447.4	3480.5	3513.6	3603.4	3693.3	3740.6	3806.8	3858.8	3915.5
10°	3315.0	3357.5	3376.4	3433.2	3527.8	3631.8	3740.6	3764.2	3910.8	3953.4	4090.5
12.5°	3357.5	3385.9	3423.7	3437.9	3541.9	3698.0	3844.6	3854.1	4005.4	4189.8	4260.7
15°	3466.3	3447.4	3461.6	3480.5	3603.4	3731.1	3967.5	4010.1	4152.0	4360.0	4535.0
17.5°	3698.0	3664.9	3641.3	3636.5	3664.9	3783.1	4062.1	4189.8	4322.2	4605.9	4695.8
20°	4279.7	4251.3	4156.7	3910.8	3825.7	3873.0	4175.6	4355.3	4539.7	4856.6	5003.2
22.5°	5164.0	5192.3	4970.1	4624.9	4270.2	4085.8	4355.3	4511.4	4804.6	5206.5	5338.9
25°	6209.0	6152.3	5882.8	5480.8	4922.8	4487.7	4643.8	4818.7	5178.1	5509.2	5561.2
27.5°	7027.1	6960.9	6752.9	6265.8	5783.4	5078.8	5022.1	5130.9	5556.5	5854.4	5797.6
30°	7835.8	7859.4	7717.6	7140.6	6544.8	5802.4	5443.0	5490.3	5816.5	6199.6	6071.9
32.5°	8866.7	8809.9	8729.5	8223.6	7518.9	6724.5	6109.7	6034.1	6175.9	6681.9	6530.6
35°	9826.7	9793.5	9684.8	9174.1	8559.3	7693.9	7093.3	6923.1	6890.0	7452.7	7187.9
37.5°	10663.7	10606.9	10441.4	10115.1	9519.3	8791.0	8133.7	7982.4	7977.7	8365.4	7854.7
40°	11368.3	11410.8	11391.9	11032.5	10706.2	10124.6	9117.3	8876.1	8857.2	9065.3	8767.4
42.5°	12281.0	12380.3	12328.2	12257.3	11864.8	11637.8	10498.2	10129.3	9963.8	10389.4	10119.8
45°	13661.8	13699.6	13732.7	13557.8	13165.3	13212.5	11926.3	11486.5	11443.9	12077.6	11472.3
47.5°	14952.8	14853.5	15085.2	15094.6	15075.7	14858.2	13467.9	13141.6	13198.4	13680.7	13056.5
50°	15274.3	15529.7	16168.1	16286.3	16593.7	16792.3	15179.8	14853.5	14948.0	15496.6	14782.5
52.5°	15525.0	15912.7	16551.1	17416.5	18244.1	18717.0	17095.0	16830.2	16825.4	17161.2	16177.6
55°	15964.8	16201.2	16754.5	17946.2	19520.9	20296.4	19402.7	18977.1	18594.0	18830.5	17624.6
57.5°	15922.2	16012.1	16872.7	18343.4	20532.9	21942.1	21299.0	20892.3	20400.5	20263.3	19289.2
60°	15175.0	15387.8	16352.5	18073.9	21157.1	23223.6	23067.6	22651.4	21805.0	21483.4	20566.0
62.5°	13694.9	13978.6	14735.2	17128.1	20249.1	23289.8	24287.6	24131.6	23185.8	22608.9	22230.6
65°	11098.7	11231.1	12101.3	14725.8	18196.8	22273.1	25729.9	25536.1	24665.9	23805.3	23086.5
67.5°	7187.9	7315.6	8152.6	10512.3	14290.7	19648.6	25673.2	26207.6	25266.5	24230.9	22552.1
70°	3395.3	3362.2	4142.5	5840.2	9155.1	15004.8	23937.7	24992.2	24193.0	21965.7	18731.2
72.5°	1035.6	1125.5	1721.3	2586.7	4700.5	9358.5	18764.3	19752.6	19502.0	17548.9	12503.2
75°	458.7	496.5	676.2	1059.3	1905.7	3839.9	11590.5	12470.1	12361.3	10351.6	5707.8
77.5°	293.2	321.6	425.6	605.3	865.4	1220.1	5338.9	6194.9	6005.7	3636.5	1494.3
80°	208.1	222.3	302.6	416.1	543.8	501.3	1839.5	2184.8	2094.9	988.3	402.0
82.5°	113.5	123.0	222.3	307.4	364.1	255.4	515.4	643.1	671.5	439.8	193.9
85°	42.6	52.0	137.1	217.5	189.2	118.2	151.3	184.4	241.2	241.2	89.8
87.5°	0.0	4.7	56.7	94.6	47.3	33.1	42.6	52.0	66.2	113.5	33.1
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°	3754.7	3754.7	3754.7	3754.7	3754.7	3754.7	3754.7	3754.7	3754.7	3754.7	3754.7
2.5°	3797.3	3764.2	3778.4	3802.0	3750.0	3778.4	3721.6	3764.2	3778.4	3721.6	3750.0
5°	3844.6	3877.7	3858.8	3821.0	3787.8	3797.3	3783.1	3750.0	3778.4	3787.8	3768.9
7.5°	3981.7	3943.9	3953.4	3910.8	3844.6	3839.9	3750.0	3726.4	3735.8	3745.3	3712.2
10°	4109.4	4133.1	4085.8	4052.7	3943.9	3873.0	3750.0	3617.6	3603.4	3546.7	3594.0
12.5°	4336.4	4279.7	4260.7	4152.0	4043.2	3806.8	3541.9	3338.6	3168.4	3106.9	3045.4
15°	4525.6	4516.1	4483.0	4317.5	4066.9	3636.5	3135.3	2662.4	2336.1	2132.7	2104.4
17.5°	4785.6	4743.1	4681.6	4421.5	3891.9	3192.0	2336.1	1740.2	1413.9	1286.3	1239.0
20°	4984.3	4951.2	4866.0	4397.9	3575.0	2378.6	1447.0	1106.6	1026.2	1002.5	1007.3
22.5°	5272.7	5168.7	5007.9	4279.7	2998.1	1584.2	1040.4	988.3	974.2	955.2	960.0
25°	5523.4	5428.8	5093.0	4076.3	2137.5	1049.8	964.7	936.3	912.7	889.0	884.3
27.5°	5745.6	5627.4	5182.9	3660.2	1338.3	903.2	893.8	860.7	813.4	775.5	761.4
30°	5963.1	5826.0	5206.5	2879.9	903.2	818.1	794.5	742.4	681.0	628.9	619.5
32.5°	6327.3	6161.8	5173.4	2057.1	780.3	728.3	676.2	614.8	524.9	482.3	472.9
35°	6894.7	6644.1	5130.9	1210.6	699.9	643.1	562.7	482.3	416.1	373.6	364.1
37.5°	7547.3	7112.3	5007.9	808.6	643.1	567.5	463.4	383.0	326.3	293.2	283.7
40°	8516.7	7798.0	4535.0	662.0	572.2	482.3	373.6	302.6	260.1	236.4	227.0
42.5°	9585.5	8583.0	3806.8	595.8	506.0	411.4	297.9	245.9	212.8	189.2	189.2
45°	10867.0	9401.1	2936.6	543.8	449.2	340.5	245.9	198.6	170.2	151.3	141.9
47.5°	12295.1	10143.5	1981.4	491.8	378.3	279.0	203.3	151.3	123.0	108.8	108.8
50°	13571.9	10800.8	1262.6	430.3	331.0	231.7	165.5	123.0	99.3	80.4	75.7
52.5°	14730.5	11302.1	870.1	378.3	283.7	189.2	137.1	99.3	75.7	61.5	61.5
55°	15917.5	11557.4	643.1	326.3	245.9	160.8	113.5	89.8	66.2	52.0	47.3
57.5°	16891.6	11666.2	491.8	283.7	208.1	127.7	99.3	75.7	56.7	42.6	37.8
60°	17723.9	11614.2	383.0	236.4	165.5	108.8	85.1	61.5	47.3	33.1	28.4
62.5°	18211.0	11302.1	302.6	203.3	132.4	94.6	70.9	52.0	33.1	23.6	18.9
65°	18220.4	10640.0	236.4	151.3	99.3	80.4	61.5	42.6	23.6	9.5	4.7
67.5°	16915.3	9207.2	189.2	118.2	80.4	61.5	47.3	33.1	9.5	0.0	0.0
70°	13231.5	6965.7	156.1	94.6	66.2	52.0	33.1	18.9	4.7	0.0	0.0
72.5°	8431.6	4170.9	127.7	75.7	56.7	37.8	23.6	14.2	0.0	0.0	0.0
75°	3527.8	1286.3	99.3	66.2	42.6	28.4	18.9	4.7	0.0	0.0	0.0
77.5°	907.9	406.7	80.4	56.7	42.6	23.6	14.2	4.7	0.0	0.0	0.0
80°	269.5	151.3	66.2	47.3	33.1	18.9	9.5	4.7	0.0	0.0	0.0
82.5°	123.0	89.8	56.7	42.6	28.4	18.9	9.5	0.0	0.0	0.0	0.0
85°	47.3	28.4	28.4	23.6	23.6	14.2	4.7	0.0	0.0	0.0	0.0
87.5°	18.9	9.5	9.5	9.5	4.7	4.7	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)