

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: P482635

Luminaire Tested: **IFLD-L-SA8D-830-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482635
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-830-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

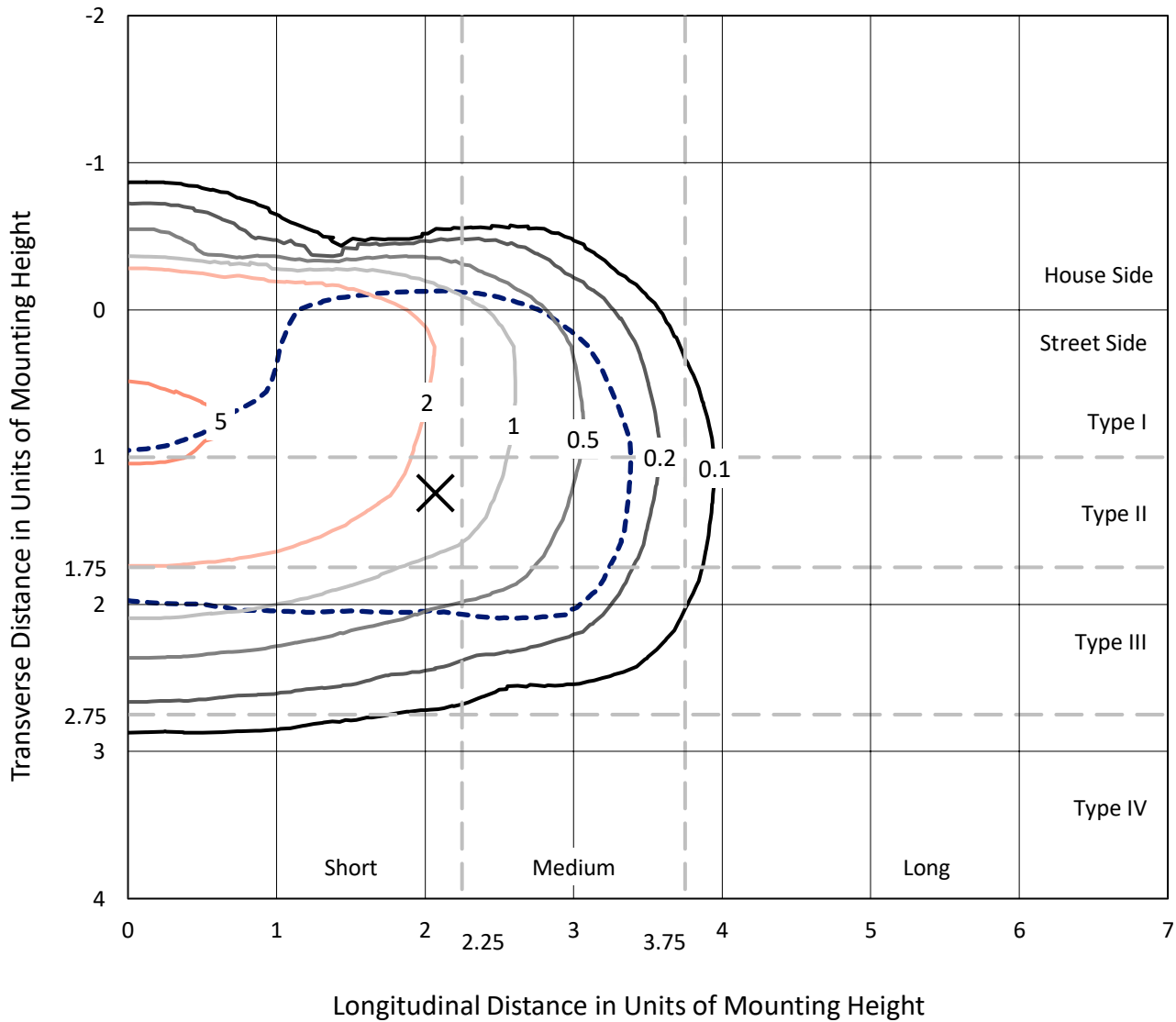
Lumens per Lamp: N/A
Luminaire Lumens: 32869.5 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 488.3
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

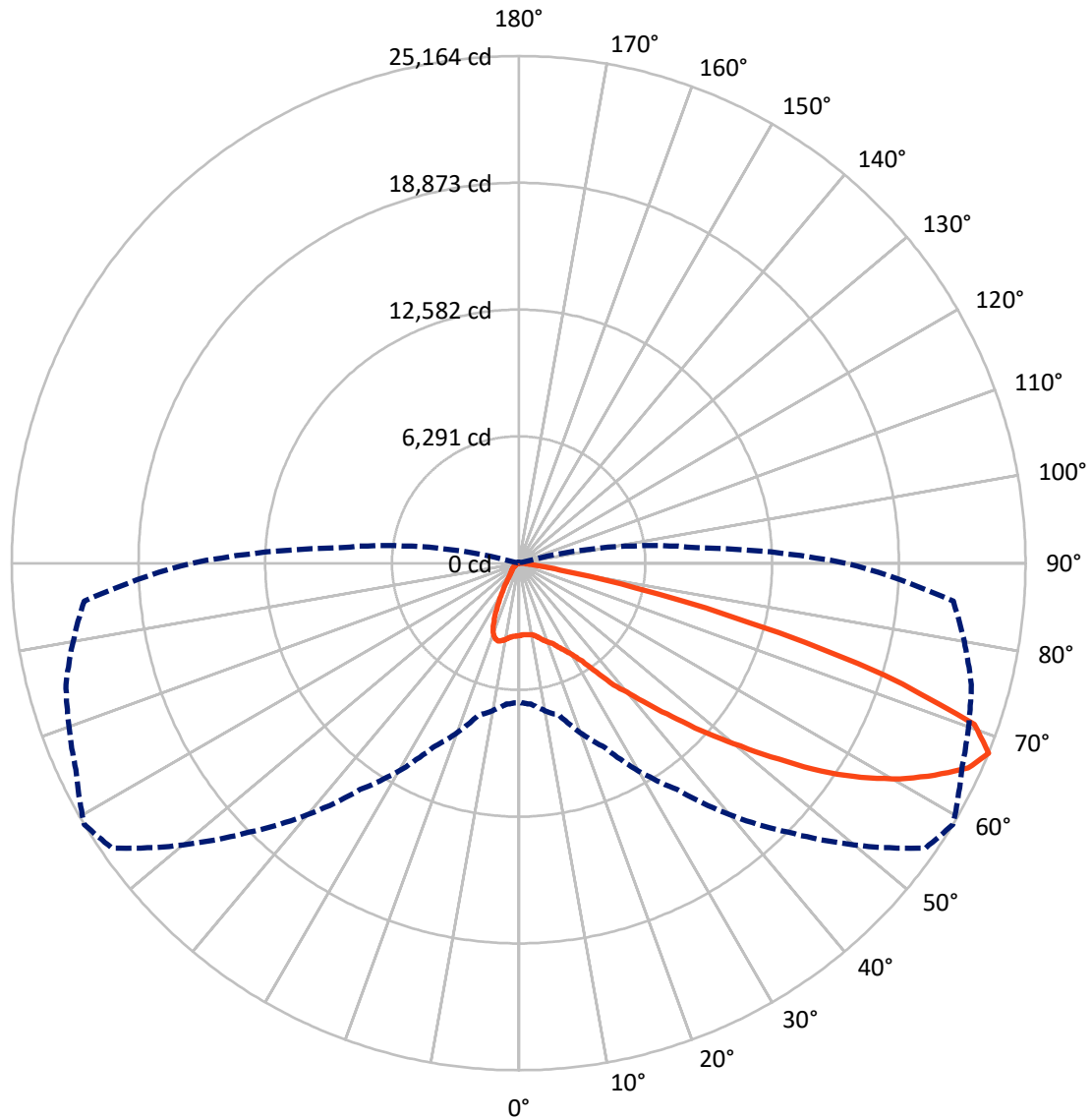
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 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	3861.1	0.0	3861.1
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	29008.4	0.0	29008.4
	% Fixture	88.3	0.0	88.3
Total	Lumens	32869.5	0.0	32869.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.5	1.0
10°-20°	989.2	3.0
20°-30°	1728.9	5.3
30°-40°	3043.9	9.3
40°-50°	5380.7	16.4
50°-60°	8519.6	25.9
60°-70°	9450.6	28.8
70°-80°	3279.1	10.0
80°-90°	135.0	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°	32869.5	100.0
0°-180°	32869.5	100.0

Coefficient of Utilization

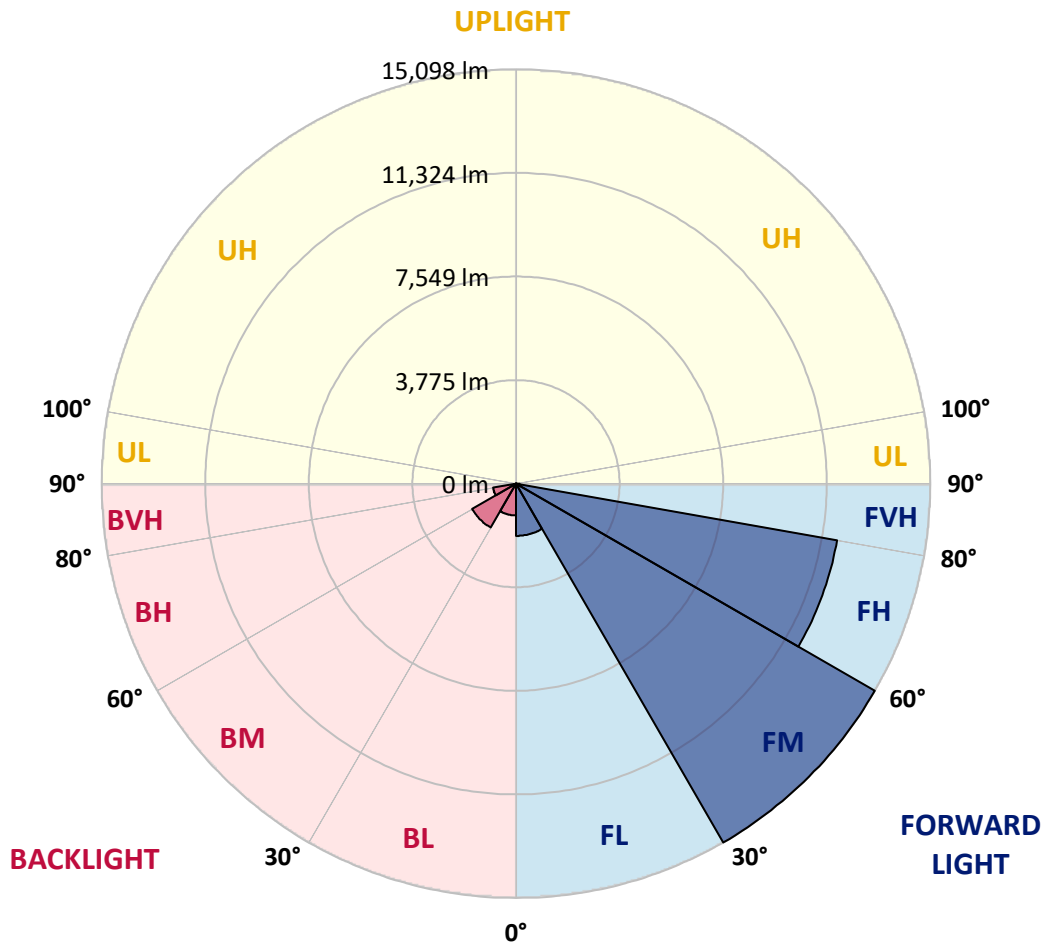


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1903.4	5.8			
FM (30°-60°)	15098.2	45.9			
FH (60°-80°)	11880.6	36.1			G4/12000
FVH (80°-90°)	126.3	0.4			G2/225
BL (0°-30°)	1157.2	3.5	B3/2500		
BM (30°-60°)	1846.0	5.6	B2/2500		
BH (60°-80°)	849.1	2.6	B2/1000		G2/1000
BVH (80°-90°)	8.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3605.2	3605.2	3605.2	3605.2	3605.2	3605.2	3605.2	3605.2	3605.2	3605.2	3605.2
2.5°	3500.8	3450.8	3496.2	3500.8	3505.3	3546.2	3591.6	3559.8	3555.2	3591.6	3623.4
5°	3360.0	3337.3	3391.8	3419.0	3464.4	3500.8	3573.4	3578.0	3582.5	3623.4	3677.8
7.5°	3301.0	3246.5	3310.1	3341.8	3373.6	3459.9	3546.2	3591.6	3655.1	3705.1	3759.6
10°	3182.9	3223.8	3242.0	3296.4	3387.2	3487.1	3591.6	3614.3	3755.0	3795.9	3927.6
12.5°	3223.8	3251.0	3287.4	3301.0	3400.9	3550.7	3691.5	3700.5	3845.8	4022.9	4091.0
15°	3328.2	3310.1	3323.7	3341.8	3459.9	3582.5	3809.5	3850.4	3986.6	4186.4	4354.4
17.5°	3550.7	3518.9	3496.2	3491.7	3518.9	3632.4	3900.3	4022.9	4150.1	4422.5	4508.8
20°	4109.2	4082.0	3991.1	3755.0	3673.3	3718.7	4009.3	4181.8	4358.9	4663.1	4803.9
22.5°	4958.3	4985.5	4772.1	4440.7	4100.1	3923.0	4181.8	4331.7	4613.2	4999.1	5126.3
25°	5961.7	5907.3	5648.4	5262.5	4726.7	4309.0	4458.8	4626.8	4971.9	5289.7	5339.7
27.5°	6747.3	6683.7	6483.9	6016.2	5553.1	4876.5	4822.1	4926.5	5335.1	5621.2	5566.7
30°	7523.7	7546.4	7410.2	6856.2	6284.1	5571.3	5226.2	5271.6	5584.9	5952.7	5830.1
32.5°	8513.5	8459.0	8381.9	7896.0	7219.5	6456.7	5866.4	5793.7	5930.0	6415.8	6270.5
35°	9435.3	9403.5	9299.0	8808.7	8218.4	7387.5	6810.8	6647.4	6615.6	7155.9	6901.6
37.5°	10238.9	10184.4	10025.5	9712.2	9140.1	8440.9	7809.7	7664.4	7659.9	8032.2	7541.8
40°	10915.5	10956.3	10938.2	10593.1	10279.8	9721.3	8754.2	8522.6	8504.4	8704.2	8418.2
42.5°	11791.8	11887.2	11837.2	11769.1	11392.2	11174.3	10080.0	9725.9	9566.9	9975.6	9716.8
45°	13117.6	13154.0	13185.8	13017.8	12640.9	12686.3	11451.3	11029.0	10988.1	11596.6	11015.4
47.5°	14357.2	14261.9	14484.3	14493.4	14475.3	14266.4	12931.5	12618.2	12672.7	13135.8	12536.5
50°	14666.0	14911.2	15524.1	15637.6	15932.8	16123.5	14575.2	14261.9	14352.7	14879.4	14193.8
52.5°	14906.6	15278.9	15891.9	16722.8	17517.4	17971.5	16414.1	16159.8	16155.3	16477.6	15533.2
55°	15328.9	15555.9	16087.2	17231.4	18743.4	19488.0	18629.9	18221.2	17853.4	18080.5	16922.6
57.5°	15288.0	15374.3	16200.7	17612.8	19715.1	21068.1	20450.6	20060.1	19587.9	19456.2	18520.9
60°	14570.6	14774.9	15701.2	17354.0	20314.4	22298.6	22148.8	21749.2	20936.5	20627.7	19746.8
62.5°	13149.4	13421.9	14148.3	16445.9	19442.6	22362.2	23320.3	23170.4	22262.3	21708.4	21345.1
65°	10656.7	10783.8	11619.3	14139.3	17472.0	21386.0	24705.1	24519.0	23683.5	22857.1	22167.0
67.5°	6901.6	7024.2	7827.9	10093.6	13721.5	18866.0	24650.6	25163.7	24260.1	23265.8	21653.9
70°	3260.1	3228.3	3977.5	5607.6	8790.5	14407.2	22984.3	23996.8	23229.4	21090.8	17985.1
72.5°	994.4	1080.7	1652.8	2483.7	4513.3	8985.7	18016.9	18965.9	18725.2	16850.0	12005.2
75°	440.4	476.8	649.3	1017.1	1829.8	3686.9	11128.9	11973.4	11869.0	9939.3	5480.4
77.5°	281.5	308.8	408.6	581.2	830.9	1171.5	5126.3	5948.1	5766.5	3491.7	1434.8
80°	199.8	213.4	290.6	399.6	522.2	481.3	1766.3	2097.7	2011.5	949.0	385.9
82.5°	109.0	118.1	213.4	295.1	349.6	245.2	494.9	617.5	644.8	422.3	186.2
85°	40.9	49.9	131.7	208.9	181.6	113.5	145.3	177.1	231.6	231.6	86.3
87.5°	0.0	4.5	54.5	90.8	45.4	31.8	40.9	49.9	63.6	109.0	31.8
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°	3605.2	3605.2	3605.2	3605.2	3605.2	3605.2	3605.2	3605.2	3605.2	3605.2	3605.2
2.5°	3646.1	3614.3	3627.9	3650.6	3600.7	3627.9	3573.4	3614.3	3627.9	3573.4	3600.7
5°	3691.5	3723.2	3705.1	3668.8	3637.0	3646.1	3632.4	3600.7	3627.9	3637.0	3618.8
7.5°	3823.1	3786.8	3795.9	3755.0	3691.5	3686.9	3600.7	3578.0	3587.0	3596.1	3564.3
10°	3945.7	3968.4	3923.0	3891.2	3786.8	3718.7	3600.7	3473.5	3459.9	3405.4	3450.8
12.5°	4163.7	4109.2	4091.0	3986.6	3882.2	3655.1	3400.9	3205.6	3042.2	2983.1	2924.1
15°	4345.3	4336.2	4304.4	4145.5	3904.9	3491.7	3010.4	2556.3	2243.0	2047.8	2020.5
17.5°	4595.0	4554.2	4495.1	4245.4	3736.9	3064.9	2243.0	1670.9	1357.6	1235.0	1189.6
20°	4785.7	4754.0	4672.2	4222.7	3432.7	2283.9	1389.4	1062.5	985.3	962.6	967.1
22.5°	5062.7	4962.8	4808.4	4109.2	2878.7	1521.1	998.9	949.0	935.4	917.2	921.7
25°	5303.4	5212.5	4890.2	3914.0	2052.3	1008.0	926.3	899.0	876.3	853.6	849.1
27.5°	5516.8	5403.3	4976.4	3514.4	1285.0	867.2	858.2	826.4	781.0	744.6	731.0
30°	5725.6	5594.0	4999.1	2765.2	867.2	785.5	762.8	712.9	653.8	603.9	594.8
32.5°	6075.3	5916.3	4967.4	1975.1	749.2	699.2	649.3	590.3	504.0	463.1	454.1
35°	6620.1	6379.5	4926.5	1162.4	672.0	617.5	540.3	463.1	399.6	358.7	349.6
37.5°	7246.7	6829.0	4808.4	776.4	617.5	544.9	445.0	367.8	313.3	281.5	272.4
40°	8177.5	7487.4	4354.4	635.7	549.4	463.1	358.7	290.6	249.7	227.0	217.9
42.5°	9203.7	8241.1	3655.1	572.1	485.8	395.0	286.1	236.1	204.3	181.6	181.6
45°	10434.2	9026.6	2819.7	522.2	431.4	326.9	236.1	190.7	163.5	145.3	136.2
47.5°	11805.4	9739.5	1902.5	472.2	363.2	267.9	195.2	145.3	118.1	104.4	104.4
50°	13031.4	10370.6	1212.3	413.2	317.8	222.5	158.9	118.1	95.4	77.2	72.6
52.5°	14143.8	10851.9	835.5	363.2	272.4	181.6	131.7	95.4	72.6	59.0	59.0
55°	15283.5	11097.1	617.5	313.3	236.1	154.4	109.0	86.3	63.6	49.9	45.4
57.5°	16218.8	11201.5	472.2	272.4	199.8	122.6	95.4	72.6	54.5	40.9	36.3
60°	17018.0	11151.6	367.8	227.0	158.9	104.4	81.7	59.0	45.4	31.8	27.2
62.5°	17485.6	10851.9	290.6	195.2	127.1	90.8	68.1	49.9	31.8	22.7	18.2
65°	17494.7	10216.2	227.0	145.3	95.4	77.2	59.0	40.9	22.7	9.1	4.5
67.5°	16241.5	8840.4	181.6	113.5	77.2	59.0	45.4	31.8	9.1	0.0	0.0
70°	12704.5	6688.2	149.8	90.8	63.6	49.9	31.8	18.2	4.5	0.0	0.0
72.5°	8095.8	4004.8	122.6	72.6	54.5	36.3	22.7	13.6	0.0	0.0	0.0
75°	3387.2	1235.0	95.4	63.6	40.9	27.2	18.2	4.5	0.0	0.0	0.0
77.5°	871.8	390.5	77.2	54.5	40.9	22.7	13.6	4.5	0.0	0.0	0.0
80°	258.8	145.3	63.6	45.4	31.8	18.2	9.1	4.5	0.0	0.0	0.0
82.5°	118.1	86.3	54.5	40.9	27.2	18.2	9.1	0.0	0.0	0.0	0.0
85°	45.4	27.2	27.2	22.7	22.7	13.6	4.5	0.0	0.0	0.0	0.0
87.5°	18.2	9.1	9.1	9.1	4.5	4.5	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)