

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: P482596

Luminaire Tested: **IFLD-L-SA8D-827-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482596
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-827-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

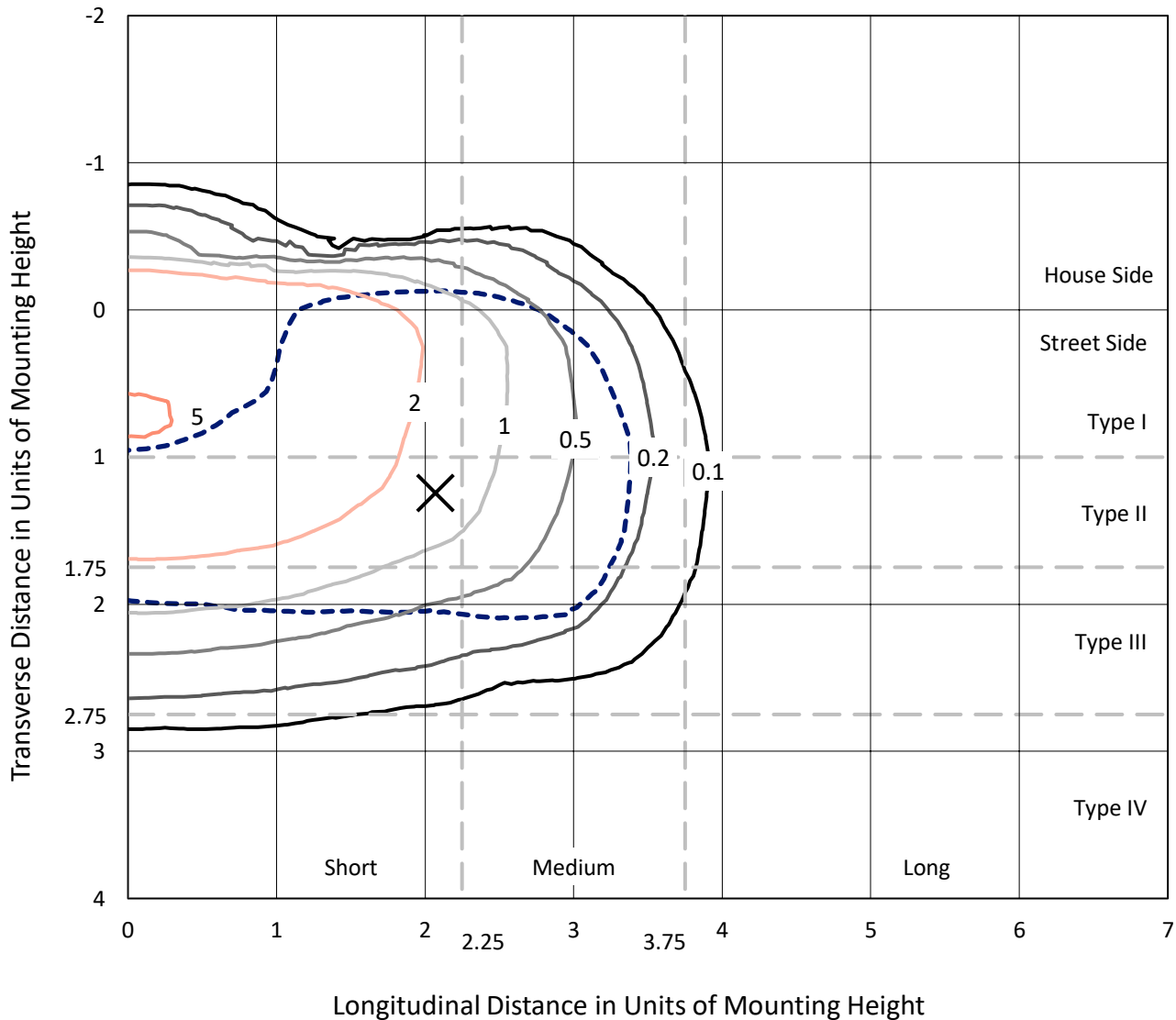
Lumens per Lamp: N/A
Luminaire Lumens: 30408.2 lumens
Efficiency: N/A
Efficacy: 62.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (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

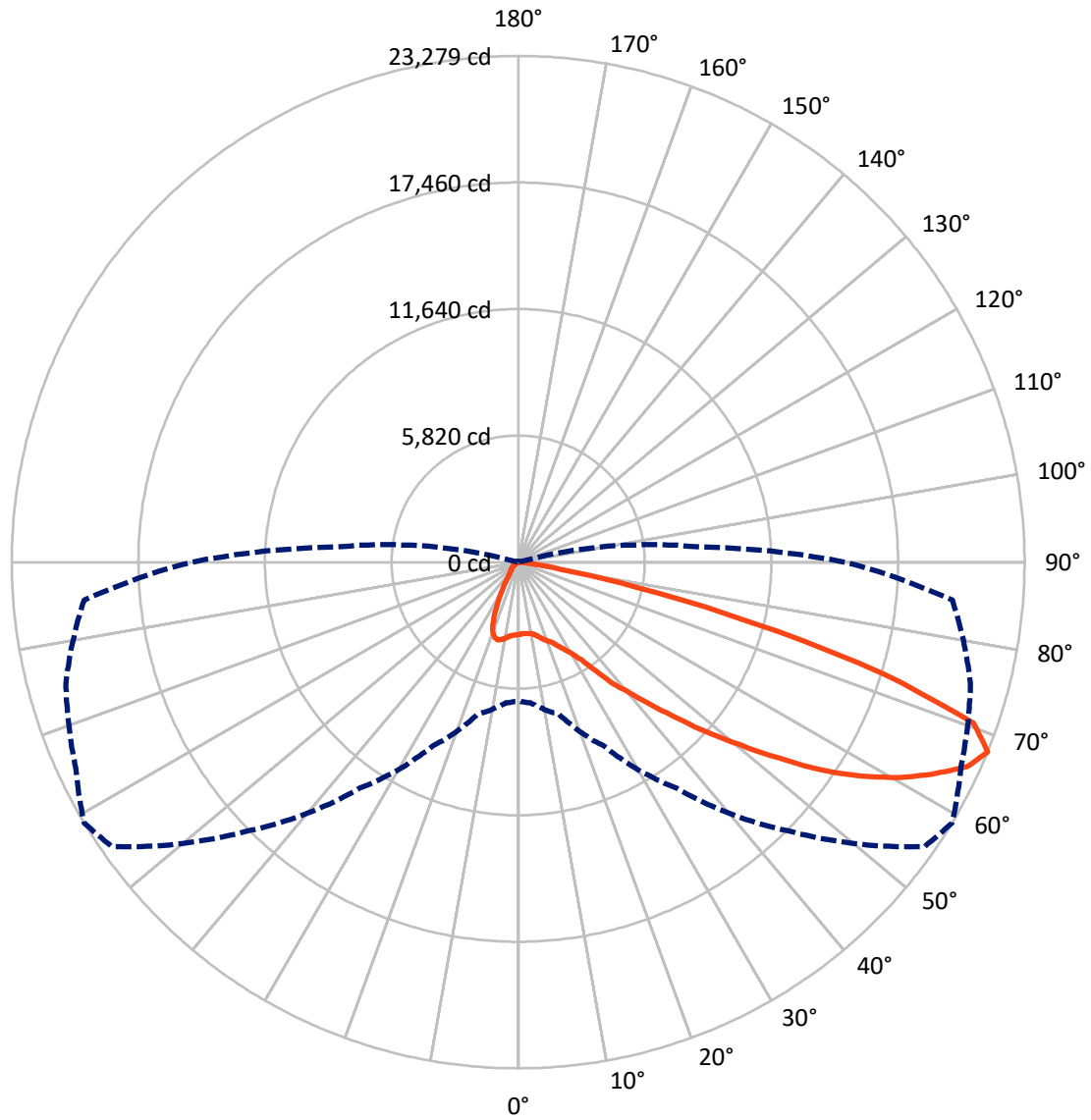
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 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	3571.9	0.0	3571.9
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	26836.3	0.0	26836.3
	% Fixture	88.3	0.0	88.3
Total	Lumens	30408.2	0.0	30408.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.8	1.0
10°-20°	915.1	3.0
20°-30°	1599.4	5.3
30°-40°	2816.0	9.3
40°-50°	4977.8	16.4
50°-60°	7881.6	25.9
60°-70°	8742.9	28.8
70°-80°	3033.6	10.0
80°-90°	124.9	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°	30408.2	100.0
0°-180°	30408.2	100.0

Coefficient of Utilization

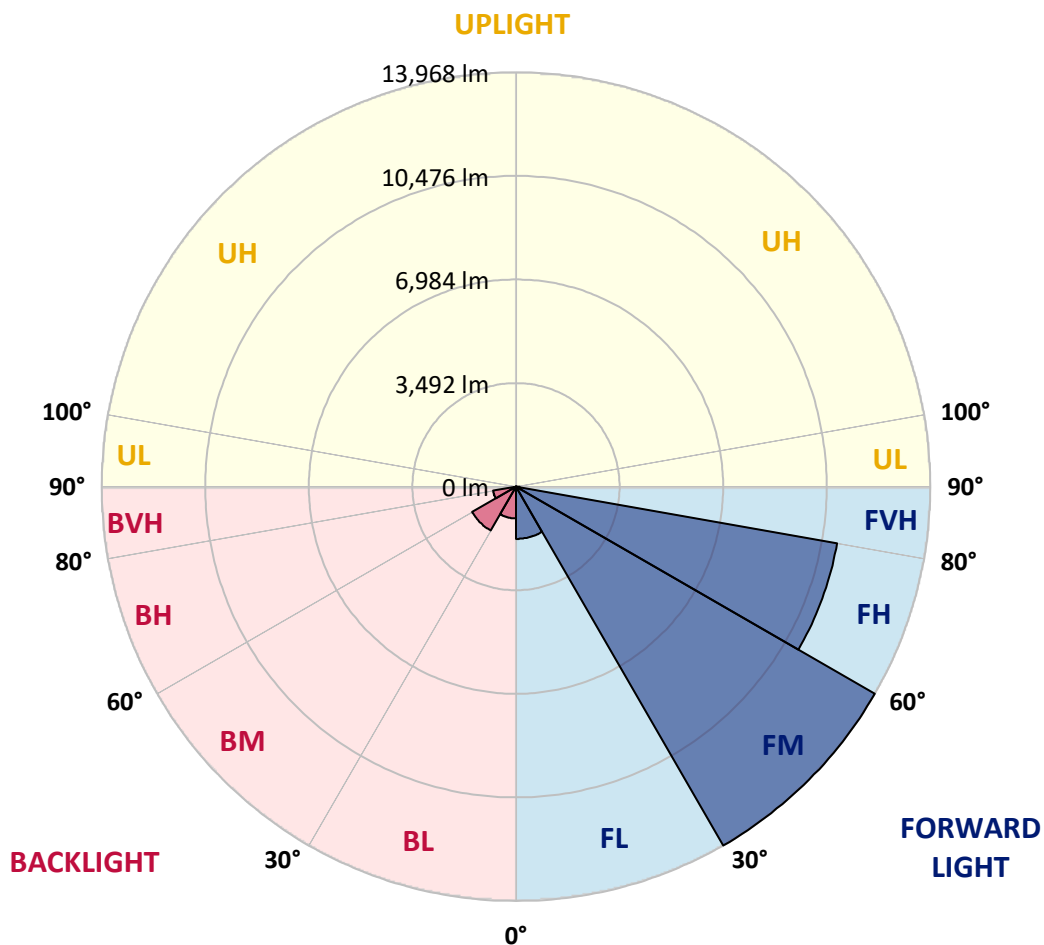


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1760.9	5.8			
FM (30°-60°)	13967.6	45.9			
FH (60°-80°)	10990.9	36.1			G4/12000
FVH (80°-90°)	116.8	0.4			G2/225
BL (0°-30°)	1070.5	3.5	B3/2500		
BM (30°-60°)	1707.8	5.6	B2/2500		
BH (60°-80°)	785.5	2.6	B2/1000		G2/1000
BVH (80°-90°)	8.1	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2
2.5°	3238.6	3192.4	3234.4	3238.6	3242.8	3280.6	3322.6	3293.2	3289.0	3322.6	3352.0
5°	3108.4	3087.4	3137.8	3163.0	3205.0	3238.6	3305.8	3310.0	3314.2	3352.0	3402.4
7.5°	3053.8	3003.4	3062.2	3091.6	3121.0	3200.8	3280.6	3322.6	3381.4	3427.6	3478.1
10°	2944.6	2982.4	2999.2	3049.6	3133.6	3226.0	3322.6	3343.6	3473.9	3511.7	3633.5
12.5°	2982.4	3007.6	3041.2	3053.8	3146.2	3284.8	3415.0	3423.4	3557.9	3721.7	3784.7
15°	3079.0	3062.2	3074.8	3091.6	3200.8	3314.2	3524.3	3562.1	3688.1	3872.9	4028.3
17.5°	3284.8	3255.4	3234.4	3230.2	3255.4	3360.4	3608.3	3721.7	3839.3	4091.3	4171.1
20°	3801.5	3776.3	3692.3	3473.9	3398.2	3440.2	3709.1	3868.7	4032.5	4314.0	4444.2
22.5°	4587.0	4612.2	4414.8	4108.1	3793.1	3629.3	3868.7	4007.3	4267.8	4624.8	4742.4
25°	5515.3	5464.9	5225.5	4868.4	4372.8	3986.3	4124.9	4280.4	4599.6	4893.6	4939.8
27.5°	6242.0	6183.2	5998.4	5565.7	5137.3	4511.4	4461.0	4557.6	4935.6	5200.3	5149.9
30°	6960.3	6981.3	6855.3	6342.8	5813.6	5154.1	4834.8	4876.8	5166.7	5506.9	5393.5
32.5°	7876.0	7825.6	7754.2	7304.8	6678.9	5973.2	5427.1	5359.9	5485.9	5935.4	5801.0
35°	8728.7	8699.3	8602.7	8149.1	7603.0	6834.3	6300.8	6149.6	6120.2	6620.1	6384.8
37.5°	9472.2	9421.8	9274.8	8985.0	8455.7	7808.8	7224.9	7090.5	7086.3	7430.8	6977.1
40°	10098.1	10135.9	10119.1	9799.9	9510.0	8993.4	8098.7	7884.4	7867.6	8052.5	7787.8
42.5°	10908.8	10997.0	10950.8	10887.8	10539.2	10337.6	9325.2	8997.6	8850.6	9228.6	8989.2
45°	12135.4	12169.0	12198.4	12043.0	11694.3	11736.3	10593.8	10203.1	10165.3	10728.2	10190.5
47.5°	13282.1	13193.9	13399.8	13408.2	13391.4	13198.1	11963.2	11673.3	11723.7	12152.2	11597.7
50°	13567.8	13794.6	14361.7	14466.7	14739.7	14916.2	13483.8	13193.9	13277.9	13765.2	13130.9
52.5°	13790.4	14134.8	14701.9	15470.6	16205.7	16625.8	15185.0	14949.8	14945.6	15243.8	14370.1
55°	14181.1	14391.1	14882.5	15941.1	17339.9	18028.8	17234.9	16856.8	16516.6	16726.6	15655.4
57.5°	14143.2	14223.1	14987.6	16293.9	18238.8	19490.5	18919.3	18558.0	18121.2	17999.4	17134.0
60°	13479.6	13668.6	14525.5	16054.5	18793.3	20628.9	20490.3	20120.6	19368.7	19083.1	18268.2
62.5°	12164.8	12416.8	13088.9	15214.4	17986.8	20687.7	21574.0	21435.4	20595.3	20082.8	19746.8
65°	9858.7	9976.3	10749.2	13080.5	16163.7	19784.6	22855.2	22683.0	21910.1	21145.6	20507.1
67.5°	6384.8	6498.2	7241.7	9337.8	12694.1	17453.3	22804.8	23279.4	22443.5	21523.6	20032.4
70°	3016.0	2986.6	3679.7	5187.7	8132.3	13328.3	21263.2	22199.9	21490.0	19511.6	16638.4
72.5°	919.9	999.7	1529.0	2297.7	4175.3	8312.9	16667.8	17545.7	17323.1	15588.2	11106.3
75°	407.5	441.1	600.7	940.9	1692.8	3410.8	10295.5	11076.8	10980.2	9195.0	5070.1
77.5°	260.4	285.6	378.0	537.7	768.7	1083.7	4742.4	5502.7	5334.7	3230.2	1327.4
80°	184.8	197.4	268.8	369.6	483.1	445.3	1634.0	1940.7	1860.8	877.9	357.0
82.5°	100.8	109.2	197.4	273.0	323.4	226.8	457.9	571.3	596.5	390.7	172.2
85°	37.8	46.2	121.8	193.2	168.0	105.0	134.4	163.8	214.2	214.2	79.8
87.5°	0.0	4.2	50.4	84.0	42.0	29.4	37.8	46.2	58.8	100.8	29.4
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°	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2
2.5°	3373.0	3343.6	3356.2	3377.2	3331.0	3356.2	3305.8	3343.6	3356.2	3305.8	3331.0
5°	3415.0	3444.5	3427.6	3394.0	3364.6	3373.0	3360.4	3331.0	3356.2	3364.6	3347.8
7.5°	3536.9	3503.3	3511.7	3473.9	3415.0	3410.8	3331.0	3310.0	3318.4	3326.8	3297.4
10°	3650.3	3671.3	3629.3	3599.9	3503.3	3440.2	3331.0	3213.4	3200.8	3150.4	3192.4
12.5°	3851.9	3801.5	3784.7	3688.1	3591.5	3381.4	3146.2	2965.6	2814.4	2759.8	2705.2
15°	4019.9	4011.5	3982.1	3835.1	3612.5	3230.2	2785.0	2364.9	2075.1	1894.4	1869.2
17.5°	4251.0	4213.2	4158.5	3927.5	3457.1	2835.4	2075.1	1545.8	1256.0	1142.5	1100.5
20°	4427.4	4398.0	4322.4	3906.5	3175.6	2112.9	1285.4	982.9	911.5	890.5	894.7
22.5°	4683.6	4591.2	4448.4	3801.5	2663.1	1407.2	924.1	877.9	865.3	848.5	852.7
25°	4906.2	4822.2	4524.0	3620.9	1898.6	932.5	856.9	831.7	810.7	789.7	785.5
27.5°	5103.7	4998.7	4603.8	3251.2	1188.8	802.3	793.9	764.5	722.5	688.9	676.3
30°	5296.9	5175.1	4624.8	2558.1	802.3	726.7	705.7	659.5	604.9	558.7	550.3
32.5°	5620.3	5473.3	4595.4	1827.2	693.1	646.9	600.7	546.1	466.3	428.5	420.1
35°	6124.4	5901.8	4557.6	1075.3	621.7	571.3	499.9	428.5	369.6	331.8	323.4
37.5°	6704.1	6317.6	4448.4	718.3	571.3	504.1	411.7	340.2	289.8	260.4	252.0
40°	7565.2	6926.7	4028.3	588.1	508.3	428.5	331.8	268.8	231.0	210.0	201.6
42.5°	8514.5	7624.0	3381.4	529.3	449.5	365.4	264.6	218.4	189.0	168.0	168.0
45°	9652.9	8350.7	2608.5	483.1	399.1	302.4	218.4	176.4	151.2	134.4	126.0
47.5°	10921.4	9010.2	1760.0	436.9	336.0	247.8	180.6	134.4	109.2	96.6	96.6
50°	12055.6	9594.1	1121.5	382.2	294.0	205.8	147.0	109.2	88.2	71.4	67.2
52.5°	13084.7	10039.3	772.9	336.0	252.0	168.0	121.8	88.2	67.2	54.6	54.6
55°	14139.0	10266.1	571.3	289.8	218.4	142.8	100.8	79.8	58.8	46.2	42.0
57.5°	15004.4	10362.8	436.9	252.0	184.8	113.4	88.2	67.2	50.4	37.8	33.6
60°	15743.7	10316.5	340.2	210.0	147.0	96.6	75.6	54.6	42.0	29.4	25.2
62.5°	16176.3	10039.3	268.8	180.6	117.6	84.0	63.0	46.2	29.4	21.0	16.8
65°	16184.7	9451.2	210.0	134.4	88.2	71.4	54.6	37.8	21.0	8.4	4.2
67.5°	15025.4	8178.5	168.0	105.0	71.4	54.6	42.0	29.4	8.4	0.0	0.0
70°	11753.1	6187.4	138.6	84.0	58.8	46.2	29.4	16.8	4.2	0.0	0.0
72.5°	7489.6	3704.9	113.4	67.2	50.4	33.6	21.0	12.6	0.0	0.0	0.0
75°	3133.6	1142.5	88.2	58.8	37.8	25.2	16.8	4.2	0.0	0.0	0.0
77.5°	806.5	361.2	71.4	50.4	37.8	21.0	12.6	4.2	0.0	0.0	0.0
80°	239.4	134.4	58.8	42.0	29.4	16.8	8.4	4.2	0.0	0.0	0.0
82.5°	109.2	79.8	50.4	37.8	25.2	16.8	8.4	0.0	0.0	0.0	0.0
85°	42.0	25.2	25.2	21.0	21.0	12.6	4.2	0.0	0.0	0.0	0.0
87.5°	16.8	8.4	8.4	8.4	4.2	4.2	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)