

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: P482399

Luminaire Tested: **IFLD-L-SA8B-730-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482399
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-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

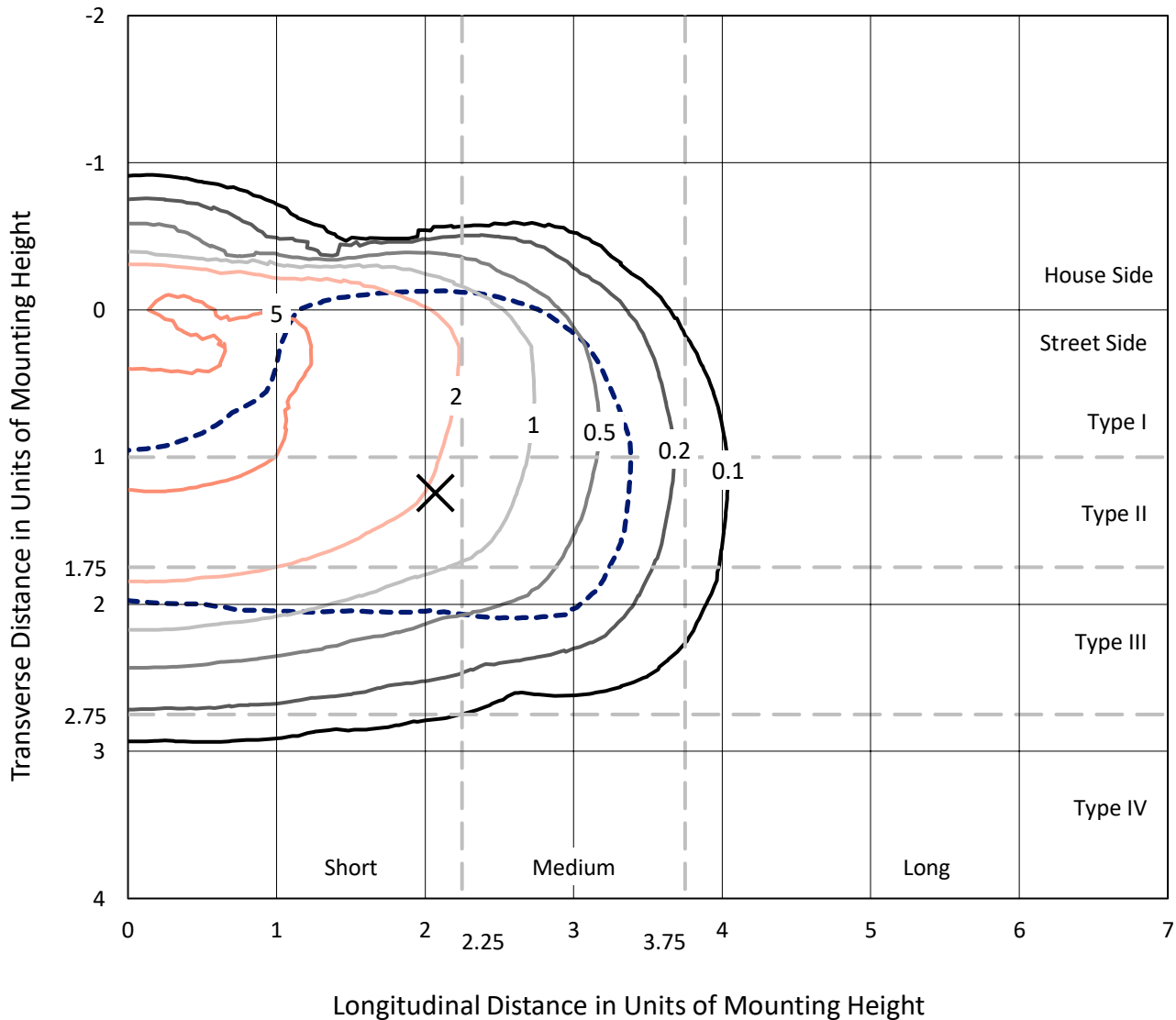
Lumens per Lamp: N/A
Luminaire Lumens: 27499.6 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 320
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

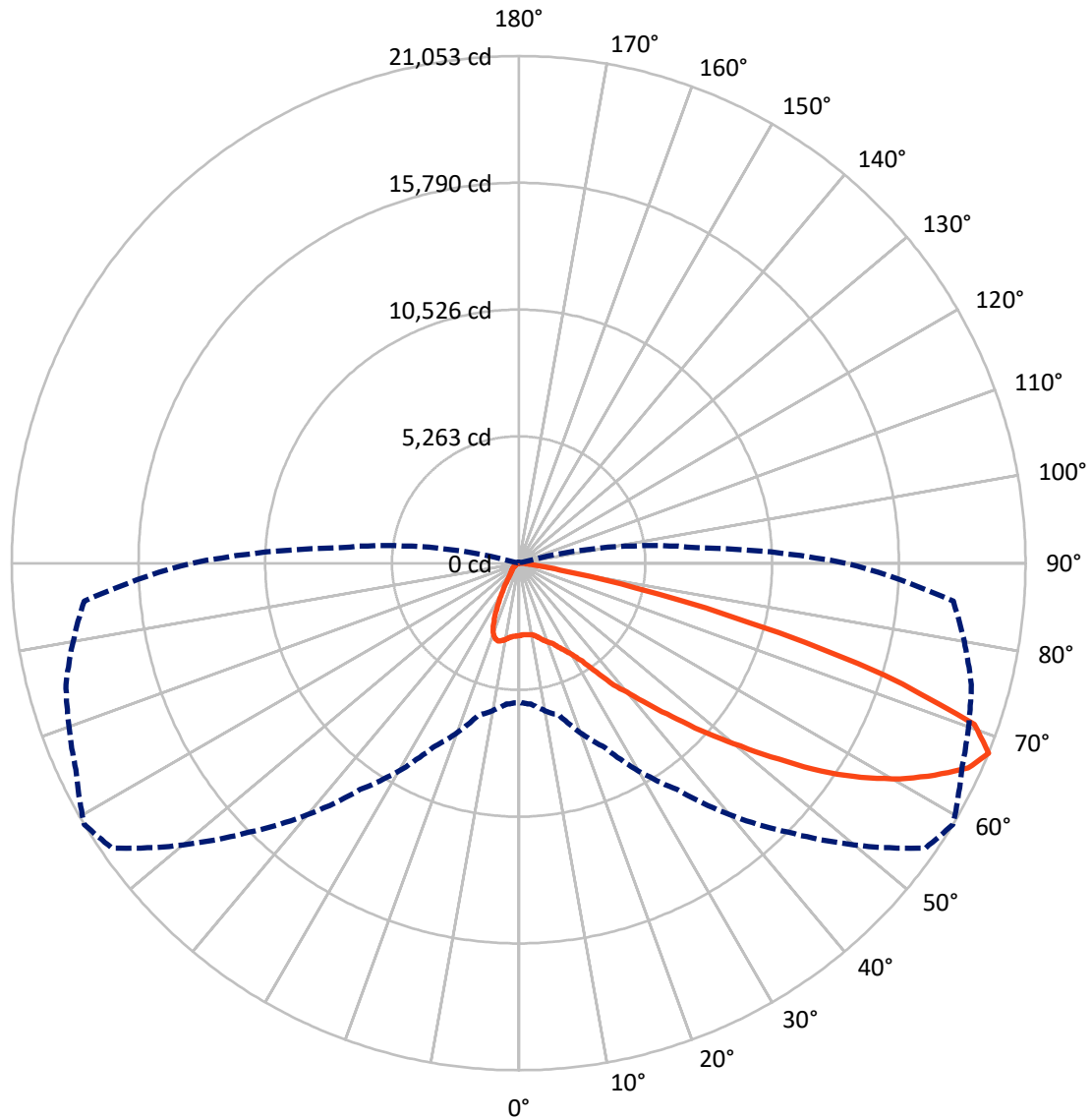
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	3230.3	0.0	3230.3
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	24269.3	0.0	24269.3
	% Fixture	88.3	0.0	88.3
Total	Lumens	27499.6	0.0	27499.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.5	1.0
10°-20°	827.6	3.0
20°-30°	1446.5	5.3
30°-40°	2546.6	9.3
40°-50°	4501.7	16.4
50°-60°	7127.7	25.9
60°-70°	7906.6	28.8
70°-80°	2743.4	10.0
80°-90°	113.0	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°	27499.6	100.0
0°-180°	27499.6	100.0

Coefficient of Utilization

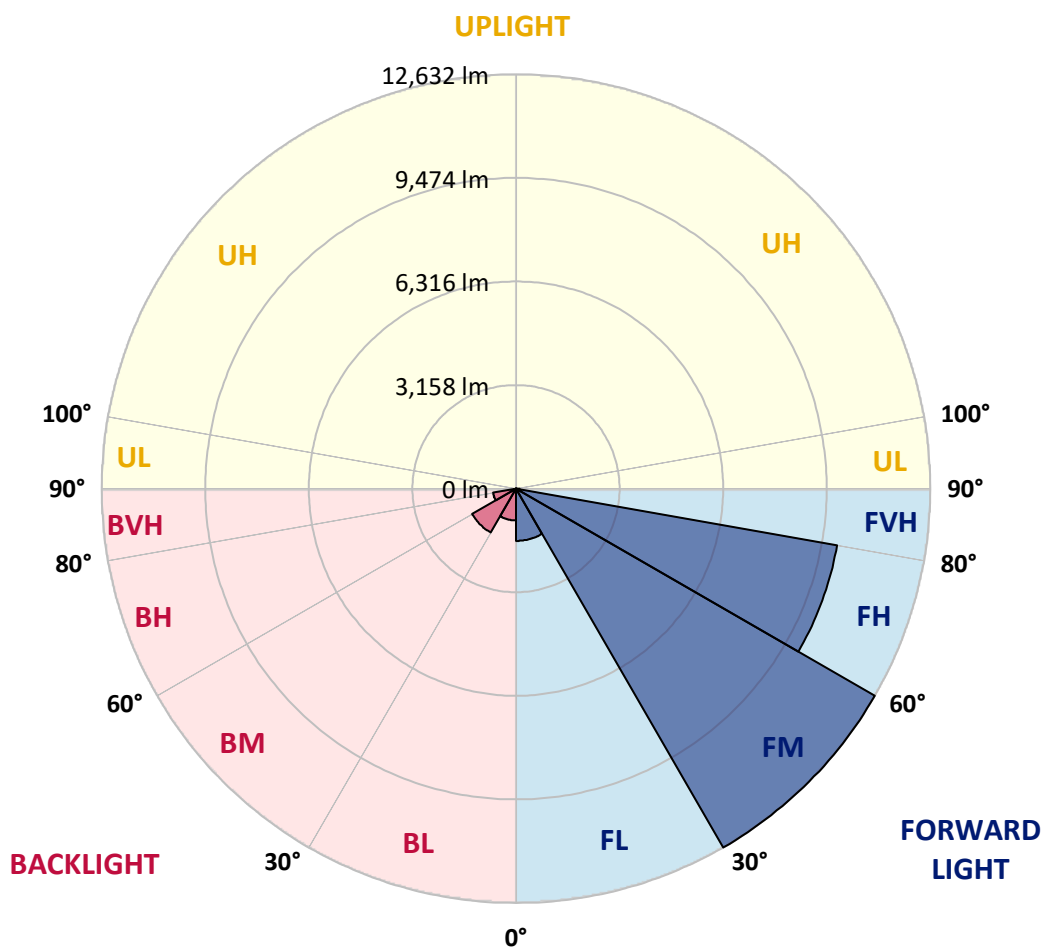


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1592.4	5.8			
FM (30°-60°)	12631.6	45.9			
FH (60°-80°)	9939.6	36.1			G4/12000
FVH (80°-90°)	105.7	0.4			G2/225
BL (0°-30°)	968.1	3.5	B2/1000		
BM (30°-60°)	1544.5	5.6	B2/2500		
BH (60°-80°)	710.4	2.6	B2/1000		G2/1000
BVH (80°-90°)	7.3	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°	59°	65°	75°	85°
0°	3016.2	3016.2	3016.2	3016.2	3016.2	3016.2	3016.2	3016.2	3016.2	3016.2	3016.2
2.5°	2928.8	2887.1	2925.0	2928.8	2932.6	2966.8	3004.8	2978.2	2974.4	3004.8	3031.4
5°	2811.1	2792.1	2837.7	2860.5	2898.4	2928.8	2989.6	2993.4	2997.2	3031.4	3077.0
7.5°	2761.7	2716.1	2769.3	2795.9	2822.5	2894.7	2966.8	3004.8	3058.0	3099.8	3145.4
10°	2662.9	2697.1	2712.3	2757.9	2833.9	2917.4	3004.8	3023.8	3141.6	3175.8	3285.9
12.5°	2697.1	2719.9	2750.3	2761.7	2845.3	2970.6	3088.4	3096.0	3217.5	3365.7	3422.7
15°	2784.5	2769.3	2780.7	2795.9	2894.7	2997.2	3187.2	3221.3	3335.3	3502.5	3643.0
17.5°	2970.6	2944.0	2925.0	2921.2	2944.0	3039.0	3263.1	3365.7	3472.1	3700.0	3772.2
20°	3437.9	3415.1	3339.1	3141.6	3073.2	3111.2	3354.3	3498.7	3646.8	3901.3	4019.1
22.5°	4148.2	4171.0	3992.5	3715.2	3430.3	3282.1	3498.7	3624.0	3859.5	4182.4	4288.8
25°	4987.8	4942.2	4725.6	4402.8	3954.5	3605.0	3730.4	3870.9	4159.6	4425.5	4467.3
27.5°	5644.9	5591.8	5424.6	5033.3	4645.9	4079.9	4034.3	4121.6	4463.5	4702.9	4657.3
30°	6294.5	6313.5	6199.6	5736.1	5257.5	4661.1	4372.4	4410.4	4672.5	4980.2	4877.6
32.5°	7122.7	7077.1	7012.5	6606.0	6040.0	5401.8	4908.0	4847.2	4961.2	5367.6	5246.1
35°	7893.8	7867.2	7779.8	7369.6	6875.7	6180.6	5698.1	5561.4	5534.8	5986.8	5774.1
37.5°	8566.2	8520.6	8387.6	8125.5	7646.9	7061.9	6533.9	6412.3	6408.5	6720.0	6309.7
40°	9132.2	9166.4	9151.2	8862.5	8600.4	8133.1	7324.0	7130.3	7115.1	7282.2	7042.9
42.5°	9865.4	9945.1	9903.4	9846.4	9531.1	9348.7	8433.2	8136.9	8004.0	8345.9	8129.3
45°	10974.6	11005.0	11031.6	10891.0	10575.7	10613.7	9580.5	9227.2	9193.0	9702.0	9215.8
47.5°	12011.7	11931.9	12118.0	12125.6	12110.4	11935.7	10818.9	10556.7	10602.3	10989.8	10488.4
50°	12270.0	12475.1	12987.9	13082.9	13329.8	13489.4	12194.0	11931.9	12007.9	12448.5	11874.9
52.5°	12471.3	12782.8	13295.6	13990.8	14655.6	15035.5	13732.5	13519.8	13516.0	13785.7	12995.5
55°	12824.6	13014.5	13459.0	14416.3	15681.3	16304.3	15586.3	15244.4	14936.7	15126.6	14158.0
57.5°	12790.4	12862.6	13554.0	14735.4	16494.2	17626.2	17109.6	16782.9	16387.8	16277.7	15495.1
60°	12190.2	12361.1	13136.1	14518.8	16995.6	18655.7	18530.3	18196.0	17516.1	17257.7	16520.8
62.5°	11001.2	11229.1	11836.9	13759.1	16266.3	18708.9	19510.4	19385.0	18625.3	18161.8	17857.9
65°	8915.7	9022.0	9721.0	11829.3	14617.6	17892.1	20669.0	20513.3	19814.3	19122.9	18545.5
67.5°	5774.1	5876.7	6549.1	8444.6	11479.8	15783.8	20623.4	21052.7	20296.7	19464.8	18116.3
70°	2727.5	2700.9	3327.7	4691.5	7354.4	12053.4	19229.3	20076.4	19434.4	17645.2	15046.9
72.5°	831.9	904.1	1382.7	2077.9	3776.0	7517.7	15073.5	15867.4	15666.1	14097.2	10043.9
75°	368.5	398.9	543.2	850.9	1530.9	3084.6	9310.7	10017.3	9929.9	8315.5	4585.1
77.5°	235.5	258.3	341.9	486.2	695.2	980.1	4288.8	4976.4	4824.4	2921.2	1200.4
80°	167.1	178.5	243.1	334.3	436.9	402.7	1477.7	1755.0	1682.8	793.9	322.9
82.5°	91.2	98.8	178.5	246.9	292.5	205.1	414.1	516.6	539.4	353.3	155.7
85°	34.2	41.8	110.2	174.7	152.0	95.0	121.6	148.2	193.7	193.7	72.2
87.5°	0.0	3.8	45.6	76.0	38.0	26.6	34.2	41.8	53.2	91.2	26.6
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°	3016.2	3016.2	3016.2	3016.2	3016.2	3016.2	3016.2	3016.2	3016.2	3016.2	3016.2
2.5°	3050.4	3023.8	3035.2	3054.2	3012.4	3035.2	2989.6	3023.8	3035.2	2989.6	3012.4
5°	3088.4	3115.0	3099.8	3069.4	3042.8	3050.4	3039.0	3012.4	3035.2	3042.8	3027.6
7.5°	3198.6	3168.2	3175.8	3141.6	3088.4	3084.6	3012.4	2993.4	3001.0	3008.6	2982.0
10°	3301.1	3320.1	3282.1	3255.5	3168.2	3111.2	3012.4	2906.0	2894.7	2849.1	2887.1
12.5°	3483.5	3437.9	3422.7	3335.3	3247.9	3058.0	2845.3	2681.9	2545.2	2495.8	2446.4
15°	3635.4	3627.8	3601.2	3468.3	3266.9	2921.2	2518.6	2138.7	1876.6	1713.2	1690.4
17.5°	3844.3	3810.1	3760.8	3551.8	3126.4	2564.2	1876.6	1397.9	1135.8	1033.3	995.3
20°	4003.9	3977.3	3908.9	3532.8	2871.9	1910.8	1162.4	888.9	824.3	805.3	809.1
22.5°	4235.6	4152.0	4022.9	3437.9	2408.4	1272.6	835.7	793.9	782.5	767.3	771.1
25°	4436.9	4361.0	4091.3	3274.5	1717.0	843.3	774.9	752.2	733.2	714.2	710.4
27.5°	4615.5	4520.5	4163.4	2940.2	1075.0	725.6	718.0	691.4	653.4	623.0	611.6
30°	4790.2	4680.1	4182.4	2313.4	725.6	657.2	638.2	596.4	547.0	505.2	497.6
32.5°	5082.7	4949.8	4155.8	1652.5	626.8	585.0	543.2	493.8	421.7	387.5	379.9
35°	5538.6	5337.2	4121.6	972.5	562.2	516.6	452.1	387.5	334.3	300.1	292.5
37.5°	6062.8	5713.3	4022.9	649.6	516.6	455.9	372.3	307.7	262.1	235.5	227.9
40°	6841.6	6264.1	3643.0	531.8	459.6	387.5	300.1	243.1	208.9	189.9	182.3
42.5°	7700.1	6894.7	3058.0	478.6	406.5	330.5	239.3	197.5	170.9	152.0	152.0
45°	8729.5	7551.9	2359.0	436.9	360.9	273.5	197.5	159.5	136.8	121.6	114.0
47.5°	9876.8	8148.3	1591.7	395.1	303.9	224.1	163.3	121.6	98.8	87.4	87.4
50°	10902.4	8676.4	1014.3	345.7	265.9	186.1	133.0	98.8	79.8	64.6	60.8
52.5°	11833.1	9079.0	699.0	303.9	227.9	152.0	110.2	79.8	60.8	49.4	49.4
55°	12786.6	9284.2	516.6	262.1	197.5	129.2	91.2	72.2	53.2	41.8	38.0
57.5°	13569.1	9371.5	395.1	227.9	167.1	102.6	79.8	60.8	45.6	34.2	30.4
60°	14237.7	9329.7	307.7	189.9	133.0	87.4	68.4	49.4	38.0	26.6	22.8
62.5°	14629.0	9079.0	243.1	163.3	106.4	76.0	57.0	41.8	26.6	19.0	15.2
65°	14636.6	8547.2	189.9	121.6	79.8	64.6	49.4	34.2	19.0	7.6	3.8
67.5°	13588.1	7396.2	152.0	95.0	64.6	49.4	38.0	26.6	7.6	0.0	0.0
70°	10628.9	5595.6	125.4	76.0	53.2	41.8	26.6	15.2	3.8	0.0	0.0
72.5°	6773.2	3350.5	102.6	60.8	45.6	30.4	19.0	11.4	0.0	0.0	0.0
75°	2833.9	1033.3	79.8	53.2	34.2	22.8	15.2	3.8	0.0	0.0	0.0
77.5°	729.4	326.7	64.6	45.6	34.2	19.0	11.4	3.8	0.0	0.0	0.0
80°	216.5	121.6	53.2	38.0	26.6	15.2	7.6	3.8	0.0	0.0	0.0
82.5°	98.8	72.2	45.6	34.2	22.8	15.2	7.6	0.0	0.0	0.0	0.0
85°	38.0	22.8	22.8	19.0	19.0	11.4	3.8	0.0	0.0	0.0	0.0
87.5°	15.2	7.6	7.6	7.6	3.8	3.8	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)