

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: P483604

Luminaire Tested: **IFLD-L-SA7C-735-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483604
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-735-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

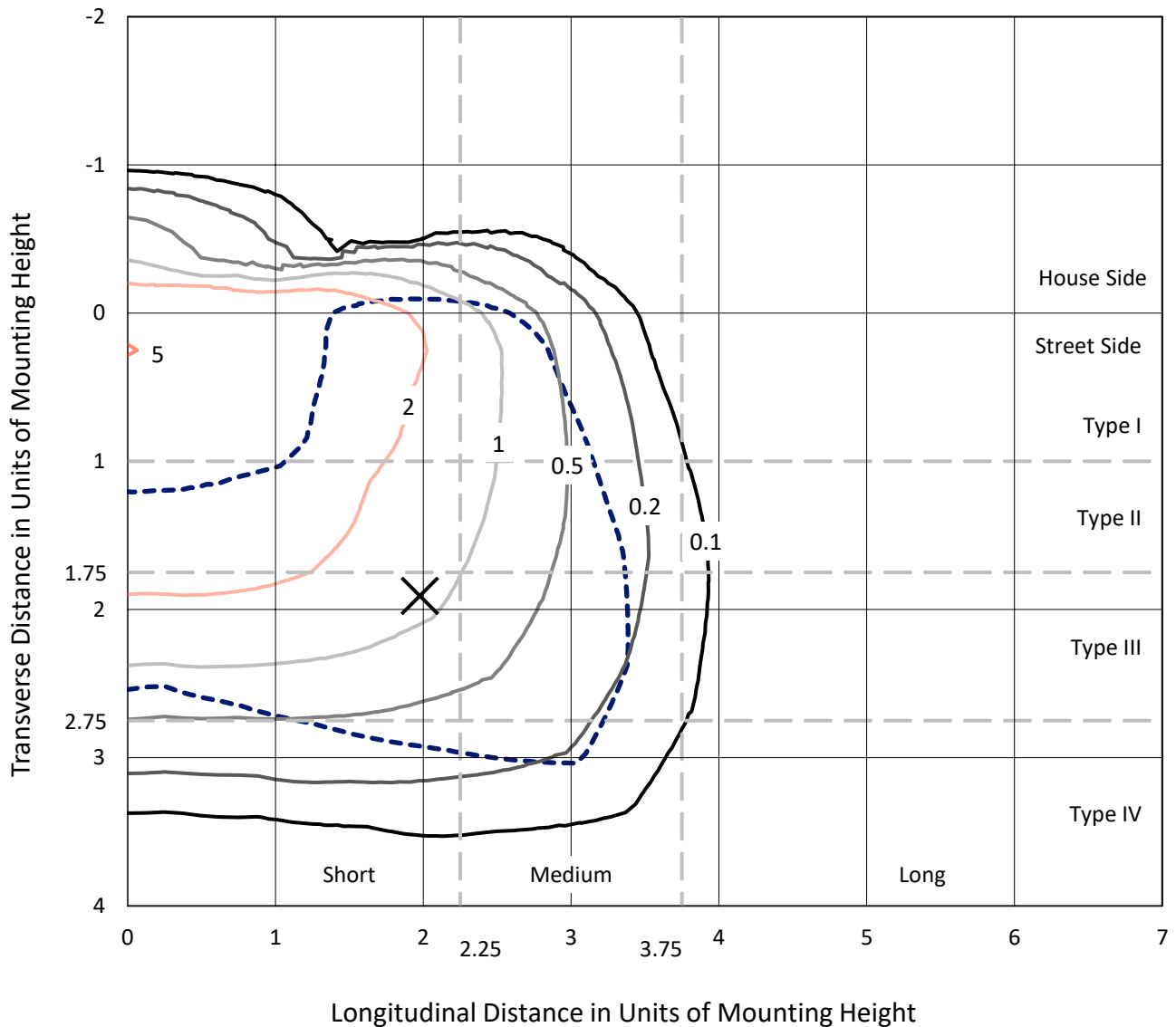
Lumens per Lamp: N/A
Luminaire Lumens: 32260.8 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 369
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

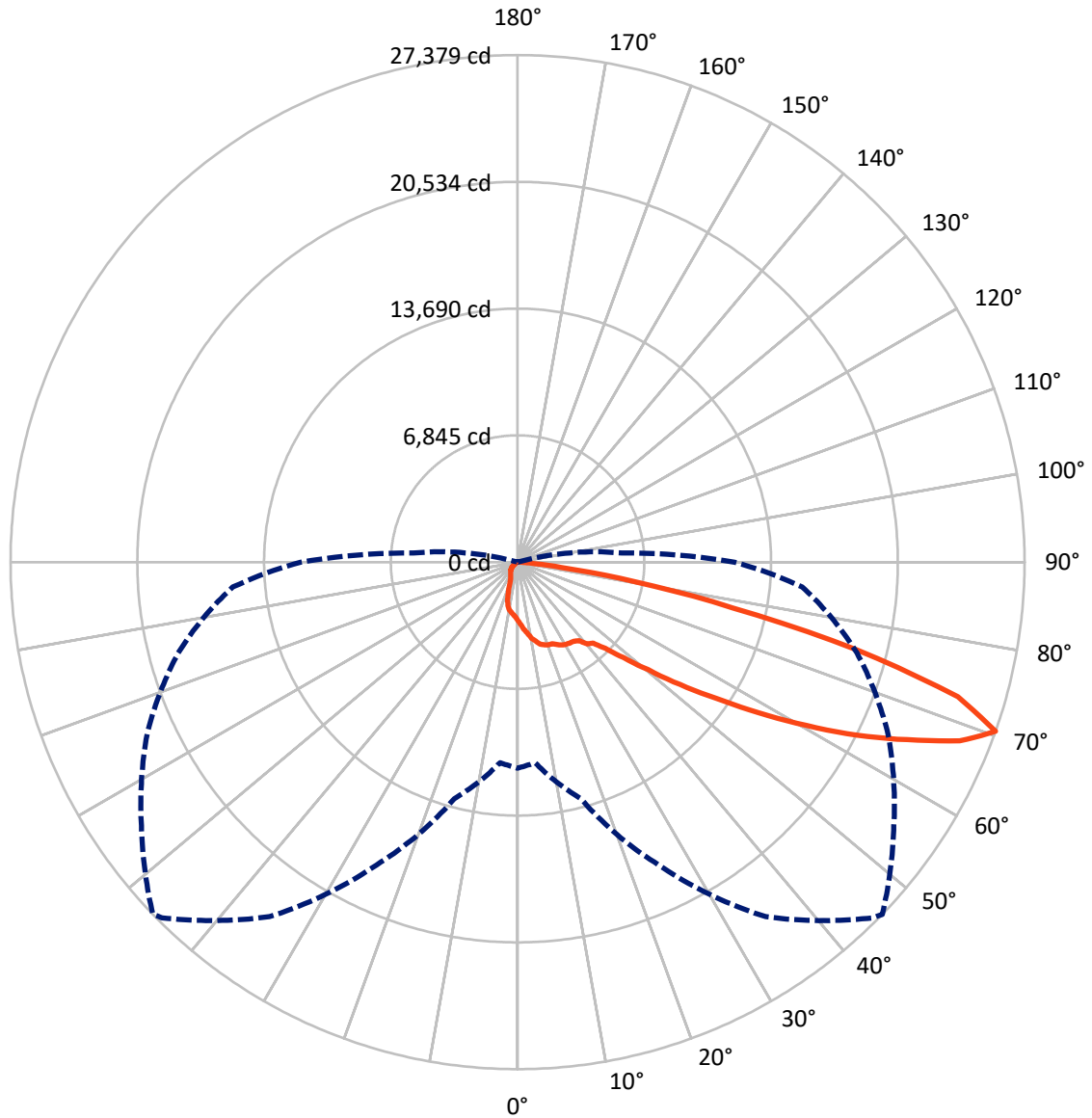
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3210.0	0.0	3210.0
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	29050.7	0.0	29050.7
	% Fixture	90.0	0.0	90.0
Total	Lumens	32260.8	0.0	32260.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.8	1.0
10°-20°	953.6	3.0
20°-30°	1527.5	4.7
30°-40°	2180.4	6.8
40°-50°	3764.9	11.7
50°-60°	7208.2	22.3
60°-70°	10674.2	33.1
70°-80°	5286.8	16.4
80°-90°	349.3	1.1
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°	32260.8	100.0
0°-180°	32260.8	100.0

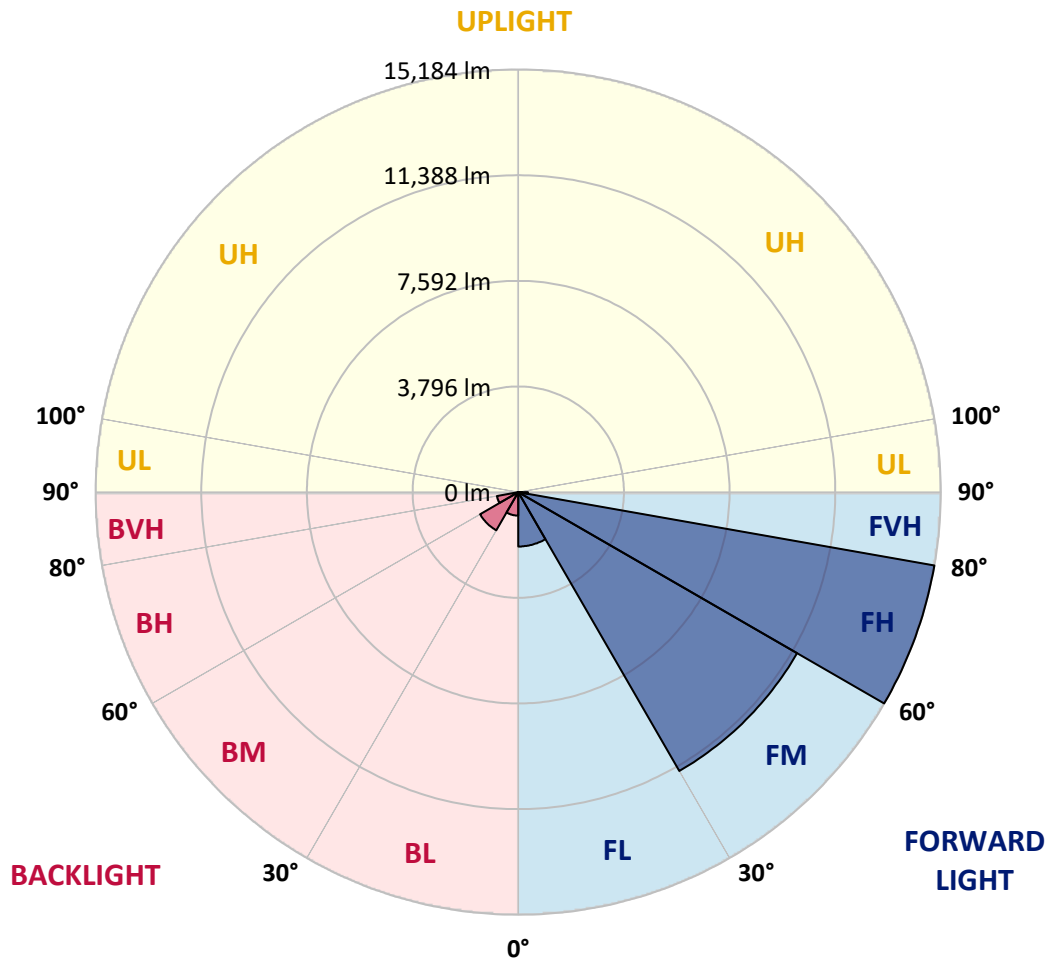


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1953.6	6.1			
FM (30°-60°)	11568.6	35.9			
FH (60°-80°)	15183.6	47.1			G5
FVH (80°-90°)	344.9	1.1			G3/500
BL (0°-30°)	843.3	2.6	B2/1000		
BM (30°-60°)	1584.8	4.9	B2/2500		
BH (60°-80°)	777.4	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.4	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3167.0	3167.0	3167.0	3167.0	3167.0	3167.0	3167.0	3167.0	3167.0	3167.0	3167.0
2.5°	3533.9	3510.6	3473.5	3459.6	3422.4	3403.8	3376.0	3362.0	3311.0	3259.9	3227.4
5°	3965.7	3910.0	3928.6	3872.8	3752.1	3654.6	3649.9	3543.1	3427.1	3334.2	3208.8
7.5°	4402.2	4355.8	4286.1	4207.2	4072.5	3928.6	3886.8	3784.6	3622.1	3459.6	3292.4
10°	4731.9	4699.4	4639.1	4527.6	4341.9	4179.3	4184.0	4012.2	3840.3	3654.6	3427.1
12.5°	4936.3	4950.2	4862.0	4750.5	4588.0	4383.7	4379.0	4262.9	4067.9	3872.8	3603.5
15°	5140.6	5191.7	5057.0	4927.0	4718.0	4569.4	4597.3	4458.0	4267.6	4044.7	3747.5
17.5°	5173.1	5187.0	5159.2	4968.8	4815.5	4690.1	4694.8	4601.9	4458.0	4216.5	3961.1
20°	5117.4	5108.1	5075.6	4936.3	4834.1	4759.8	4764.4	4741.2	4662.3	4467.2	4119.0
22.5°	4954.8	4954.8	4913.0	4820.2	4773.7	4843.4	4787.7	4875.9	4792.3	4676.2	4388.3
25°	4824.8	4875.9	4852.7	4792.3	4810.9	4903.7	4931.6	5015.2	5001.3	4857.3	4574.0
27.5°	4964.1	4903.7	4917.7	4848.0	4917.7	5057.0	5070.9	5131.3	5126.6	5010.6	4741.2
30°	5057.0	5112.7	5005.9	4852.7	4927.0	5163.8	5154.5	5233.5	5270.6	5131.3	4899.1
32.5°	5354.2	5307.7	5219.5	5015.2	5024.5	5159.2	5200.9	5303.1	5326.3	5242.7	5052.3
35°	5962.5	5892.9	5507.4	5200.9	5154.5	5219.5	5247.4	5447.1	5488.9	5396.0	5214.9
37.5°	6900.5	6742.7	6278.3	5600.3	5391.3	5377.4	5377.4	5642.1	5800.0	5586.4	5456.3
40°	8242.6	8019.7	7518.2	6338.7	5702.5	5758.2	5813.9	5957.9	5939.3	5800.0	5772.1
42.5°	9951.4	9779.6	9236.3	7578.5	6296.9	6018.2	5971.8	6166.8	6459.4	6403.7	6385.1
45°	11377.1	11386.4	11038.1	9278.1	7323.1	6617.3	6649.8	6798.4	7290.6	7248.8	7244.2
47.5°	12417.3	12287.2	12236.1	10917.3	8818.4	7755.0	7708.5	7810.7	8451.5	8716.2	8837.0
50°	13364.6	13276.3	13155.6	12510.1	10615.5	9180.6	9134.2	9143.4	10123.3	10494.8	10792.0
52.5°	14539.4	14650.9	14251.5	13856.8	12942.0	11033.4	10982.4	10801.2	12017.9	12528.7	12881.6
55°	15988.3	15779.3	15328.9	15533.2	15166.3	13034.9	12942.0	12728.4	14177.2	14390.8	14762.3
57.5°	16308.7	16150.8	16615.2	17339.6	17692.5	15384.6	15347.4	14962.0	15992.9	15797.9	16847.3
60°	17107.4	17149.2	17794.7	19234.2	19847.2	18096.5	17915.4	17237.4	17752.9	17790.0	18909.1
62.5°	17929.3	17831.8	19276.0	20659.8	21602.5	20664.5	20604.1	19257.4	19842.5	19368.9	20850.2
65°	17325.6	17474.2	19540.7	21857.9	23877.9	23176.7	23125.6	21203.1	21523.6	20933.8	21639.6
67.5°	15180.3	14878.4	17771.4	21309.9	25048.1	25809.7	25754.0	23325.3	22470.9	20924.5	20000.4
70°	11126.3	10866.3	13225.3	18045.4	23371.7	27156.4	27379.3	24802.0	22085.4	18974.2	15431.0
72.5°	5451.7	5456.3	7411.3	12236.1	18491.2	24750.9	24862.4	22740.2	18974.2	13986.8	8739.4
75°	1611.4	1629.9	2744.4	5999.7	11952.9	18797.7	18923.1	17260.6	13151.0	7225.6	2981.3
77.5°	589.7	589.7	910.2	2252.2	5962.5	11864.7	11855.4	10596.9	6659.1	2447.2	696.6
80°	306.5	320.4	473.7	919.5	2581.9	6180.8	6412.9	5187.0	2530.8	1030.9	204.3
82.5°	125.4	139.3	260.0	473.7	1239.9	2168.6	2372.9	2033.9	1100.6	719.8	92.9
85°	37.1	41.8	125.4	264.7	487.6	543.3	603.7	682.6	691.9	557.2	41.8
87.5°	4.6	4.6	51.1	88.2	106.8	116.1	134.7	134.7	352.9	390.1	23.2
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°	3167.0	3167.0	3167.0	3167.0	3167.0	3167.0	3167.0	3167.0	3167.0	3167.0	3167.0
2.5°	3190.2	3167.0	3129.9	3046.3	3027.7	2967.3	2962.7	2907.0	2925.5	2888.4	2874.5
5°	3167.0	3115.9	3013.8	2948.7	2883.7	2841.9	2814.1	2790.9	2786.2	2767.6	2758.4
7.5°	3208.8	3139.1	2981.3	2879.1	2767.6	2730.5	2670.1	2665.5	2633.0	2600.5	2600.5
10°	3348.1	3222.7	3050.9	2879.1	2735.1	2614.4	2475.1	2372.9	2335.8	2252.2	2261.5
12.5°	3459.6	3348.1	3097.3	2920.9	2702.6	2428.7	2122.2	1885.3	1773.9	1667.1	1708.9
15°	3617.4	3454.9	3185.6	2930.2	2577.3	2103.6	1602.1	1337.4	1235.2	1212.0	1207.4
17.5°	3789.3	3617.4	3297.0	2907.0	2321.9	1625.3	1179.5	1026.3	1044.8	1072.7	1068.1
20°	3979.7	3770.7	3380.6	2828.0	1917.8	1179.5	965.9	961.2	989.1	1030.9	1040.2
22.5°	4179.3	3998.2	3482.8	2591.2	1430.3	947.3	928.7	928.7	947.3	998.4	989.1
25°	4402.2	4160.8	3533.9	2224.3	1026.3	873.0	882.3	900.9	910.2	952.0	956.6
27.5°	4574.0	4341.9	3547.8	1783.2	835.9	808.0	831.2	854.4	868.4	900.9	914.8
30°	4731.9	4569.4	3473.5	1328.1	766.2	752.3	761.6	794.1	821.9	849.8	849.8
32.5°	4931.6	4699.4	3301.7	942.7	724.4	701.2	696.6	710.5	743.0	775.5	775.5
35°	5135.9	4917.7	3027.7	756.9	687.3	654.8	636.2	622.3	636.2	659.4	678.0
37.5°	5433.1	5247.4	2684.1	696.6	659.4	613.0	575.8	543.3	520.1	515.5	529.4
40°	5855.7	5618.9	2242.9	654.8	626.9	571.2	515.5	459.7	408.6	376.1	380.8
42.5°	6496.5	6166.8	1764.6	631.5	603.7	524.7	445.8	366.9	301.8	269.3	269.3
45°	7411.3	6891.3	1295.6	608.3	575.8	469.0	366.9	274.0	209.0	190.4	195.0
47.5°	8790.5	7764.3	928.7	571.2	538.7	408.6	287.9	195.0	153.2	144.0	148.6
50°	10592.3	8799.8	724.4	529.4	492.2	343.6	213.6	144.0	120.7	116.1	120.7
52.5°	12482.3	9844.6	636.2	492.2	422.6	274.0	157.9	116.1	102.2	97.5	102.2
55°	14098.3	10518.0	552.6	436.5	339.0	204.3	125.4	102.2	88.2	74.3	74.3
57.5°	15732.9	10857.0	436.5	362.2	250.8	153.2	106.8	88.2	74.3	60.4	55.7
60°	17061.0	11098.4	311.1	269.3	176.5	120.7	92.9	78.9	60.4	46.4	41.8
62.5°	17934.0	10406.5	227.5	204.3	130.0	102.2	78.9	65.0	46.4	32.5	32.5
65°	17502.1	9449.9	176.5	144.0	97.5	78.9	65.0	46.4	32.5	18.6	13.9
67.5°	15705.0	7699.3	144.0	106.8	74.3	60.4	51.1	37.1	18.6	4.6	4.6
70°	11716.1	5642.1	116.1	78.9	60.4	46.4	37.1	23.2	9.3	4.6	0.0
72.5°	6408.3	3088.1	92.9	65.0	46.4	37.1	27.9	18.6	9.3	0.0	0.0
75°	2117.5	821.9	69.7	46.4	27.9	23.2	18.6	13.9	4.6	0.0	0.0
77.5°	510.8	213.6	55.7	41.8	23.2	13.9	9.3	4.6	4.6	0.0	0.0
80°	157.9	88.2	41.8	27.9	18.6	13.9	4.6	0.0	0.0	0.0	0.0
82.5°	65.0	41.8	18.6	18.6	13.9	4.6	0.0	0.0	0.0	0.0	0.0
85°	32.5	23.2	13.9	9.3	9.3	4.6	0.0	0.0	0.0	0.0	0.0
87.5°	23.2	9.3	4.6	4.6	0.0	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)