

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: P484339

Luminaire Tested: **IFLD-M-SA4B-730-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484339  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-730-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (64) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

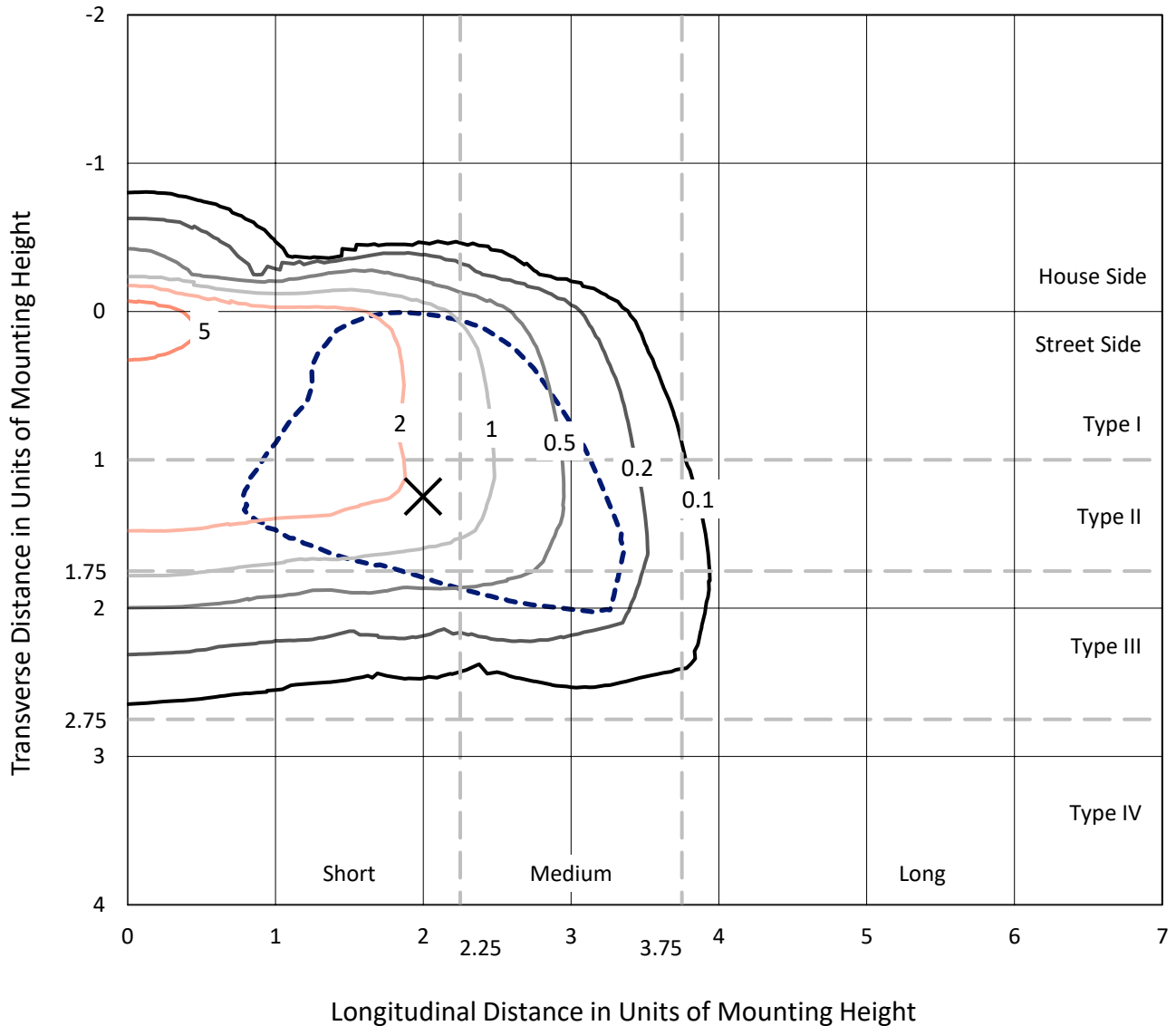
Lumens per Lamp: N/A  
Luminaire Lumens: 17392.9 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 166.1  
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

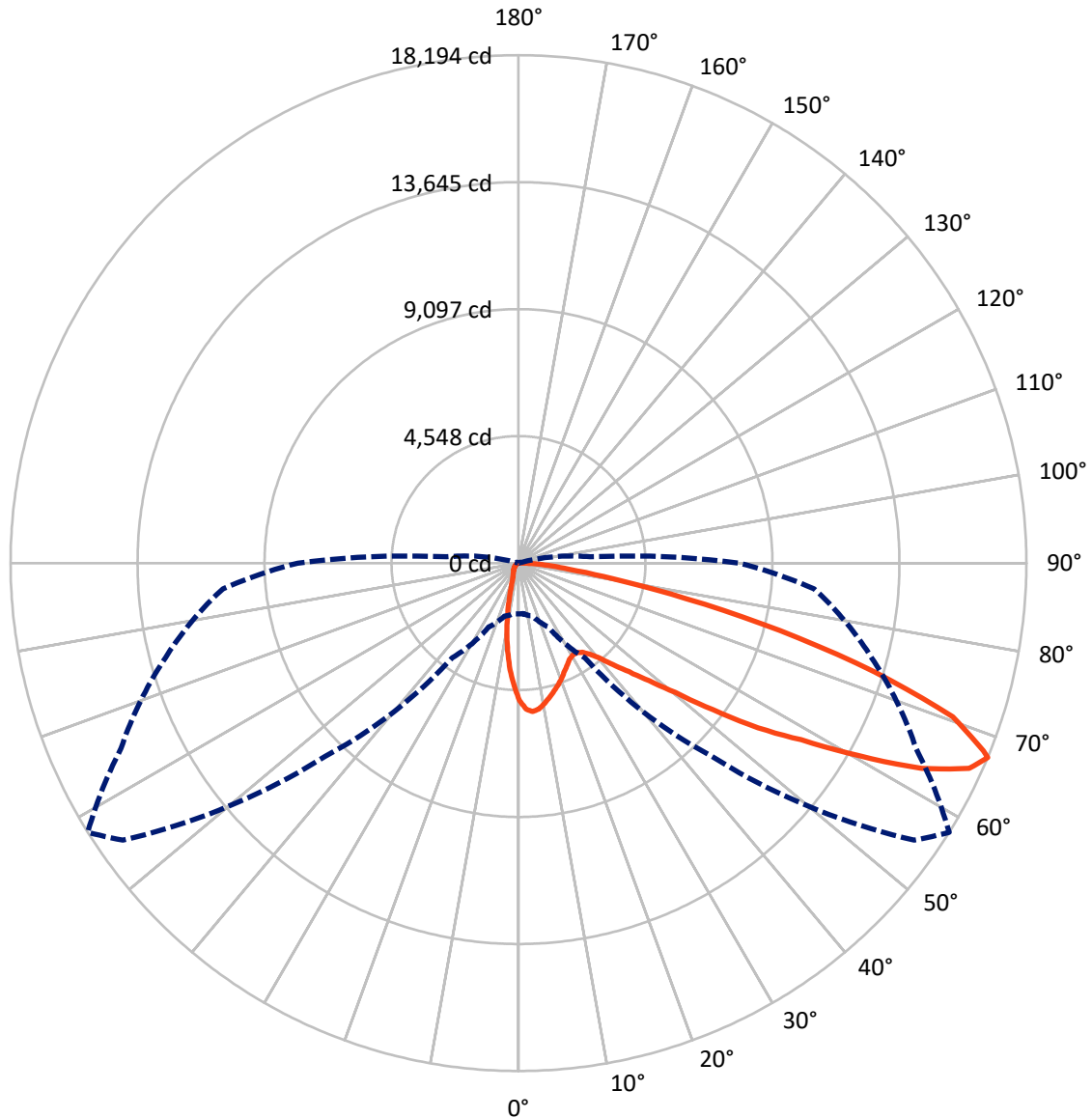
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1437.6	0.0	1437.6
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	15955.3	0.0	15955.3
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	17392.9	0.0	17392.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.0	2.2
10°-20°	811.0	4.7
20°-30°	1076.0	6.2
30°-40°	1491.0	8.6
40°-50°	2432.9	14.0
50°-60°	4276.2	24.6
60°-70°	4736.2	27.2
70°-80°	1962.7	11.3
80°-90°	216.0	1.2
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°	17392.9	100.0
0°-180°	17392.9	100.0

**Coefficient of Utilization**



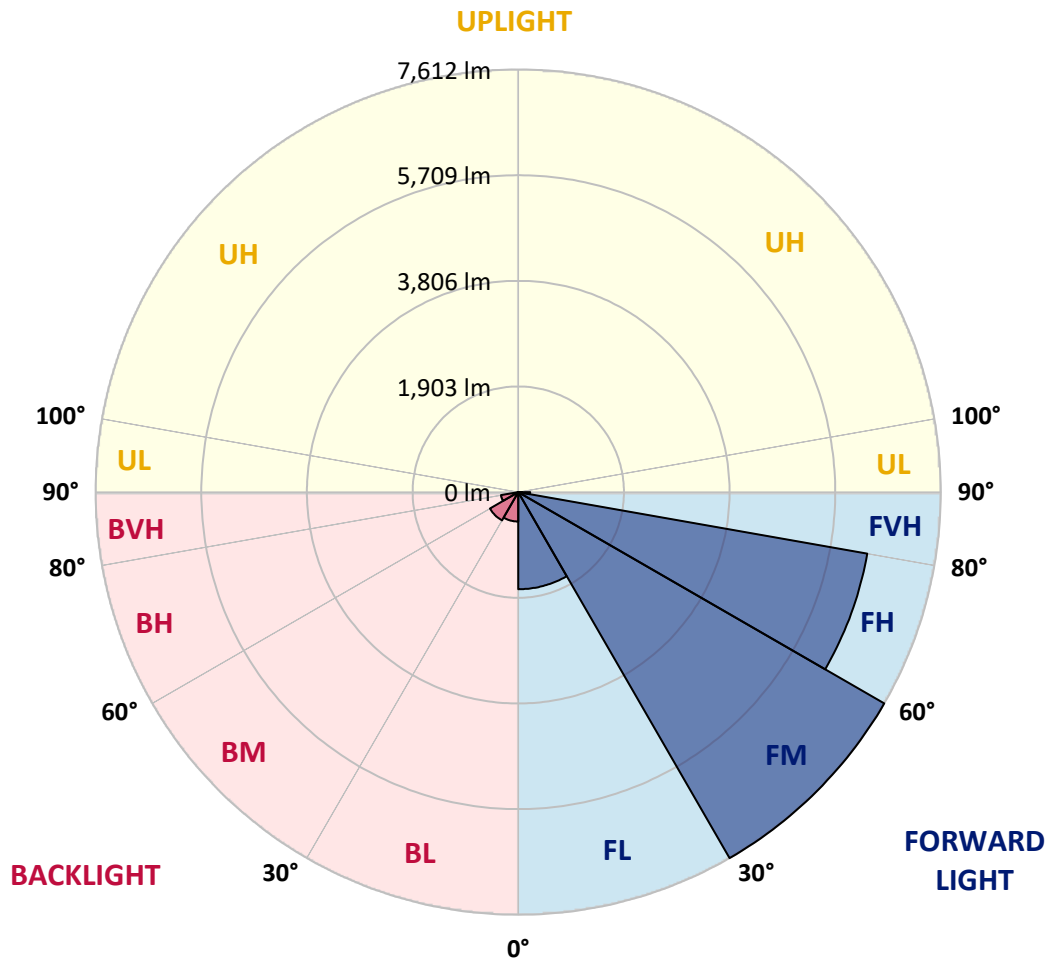
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1748.5	10.1			
FM (30°-60°)	7611.5	43.8			
FH (60°-80°)	6382.8	36.7			G3/7500
FVH (80°-90°)	212.5	1.2			G2/225
BL (0°-30°)	529.5	3.0	B2/1000		
BM (30°-60°)	588.5	3.4	B1/1000		
BH (60°-80°)	316.1	1.8	B1/500		G1/500
BVH (80°-90°)	3.5	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4927.7	4927.7	4927.7	4927.7	4927.7	4927.7	4927.7	4927.7	4927.7	4927.7	4927.7
2.5°	5361.8	5380.2	5396.4	5366.4	5391.8	5354.8	5260.2	5239.4	5223.2	5082.4	5001.5
5°	5359.5	5338.7	5354.8	5368.7	5334.1	5361.8	5338.7	5341.0	5278.6	5151.6	4925.3
7.5°	5001.5	4992.3	5001.5	5068.5	5144.7	5204.7	5239.4	5274.0	5232.5	5043.1	4823.7
10°	4518.9	4565.1	4590.5	4710.6	4828.4	4939.2	5047.7	5112.4	5100.8	5024.6	4712.9
12.5°	4181.8	4168.0	4260.3	4338.8	4456.6	4680.6	4869.9	4930.0	4999.2	4893.0	4567.4
15°	3870.1	3833.1	3888.6	4024.8	4225.7	4403.5	4669.0	4759.1	4846.8	4874.5	4488.9
17.5°	3572.2	3590.7	3648.4	3770.8	3960.1	4209.5	4458.9	4588.2	4798.3	4761.4	4371.2
20°	3429.0	3468.3	3489.1	3551.4	3683.0	3932.4	4304.2	4408.1	4632.1	4759.1	4255.7
22.5°	3436.0	3436.0	3387.5	3424.4	3544.5	3738.5	4094.1	4209.5	4565.1	4639.0	4151.8
25°	3509.9	3463.7	3466.0	3422.1	3472.9	3579.1	3904.7	4045.6	4428.9	4650.6	4096.4
27.5°	3565.3	3556.0	3542.2	3530.6	3466.0	3482.1	3780.0	3895.5	4375.8	4636.7	4010.9
30°	3766.2	3724.6	3710.8	3685.4	3599.9	3521.4	3680.7	3826.2	4334.2	4669.0	3962.4
32.5°	3934.7	3941.7	3953.2	3879.3	3805.4	3611.5	3708.4	3823.9	4304.2	4742.9	4010.9
35°	4147.2	4177.2	4181.8	4158.7	4080.2	3888.6	3823.9	3923.2	4355.0	4874.5	4015.6
37.5°	4470.4	4438.1	4525.9	4535.1	4479.7	4225.7	4091.8	4131.0	4505.1	5084.7	4191.0
40°	4680.6	4719.8	4883.8	4985.4	4890.7	4659.8	4479.7	4472.8	4722.1	5414.9	4408.1
42.5°	4913.8	5001.5	5181.7	5401.0	5389.5	5174.7	4992.3	4962.3	5107.8	5892.9	4752.2
45°	5232.5	5311.0	5562.7	5892.9	6073.0	5890.6	5615.8	5555.7	5576.5	6544.0	5338.7
47.5°	5761.2	5740.5	6103.0	6428.6	6724.1	6583.3	6465.5	6290.0	6273.9	7310.7	6149.2
50°	6359.3	6354.7	6678.0	7047.4	7389.2	7664.0	7467.7	7276.0	7280.6	8352.1	7102.8
52.5°	6927.3	7017.4	7366.1	7733.2	8319.7	8615.3	8804.7	8728.5	8361.3	9282.6	8123.5
55°	7227.5	7306.0	7652.4	8285.1	9211.1	9970.8	10483.4	10418.7	9709.8	10331.0	9130.2
57.5°	6943.5	6996.6	7465.4	8294.3	9834.5	11529.4	12021.3	11940.4	11104.5	11132.3	10347.2
60°	5754.3	5837.4	6534.8	7506.9	9592.1	12730.2	14138.7	14016.3	12374.6	12146.0	11129.9
62.5°	3985.5	4041.0	4613.6	5823.6	8442.1	13148.1	16138.4	16205.4	13713.8	12935.7	11363.2
65°	2581.6	2577.0	2904.9	3724.6	5982.9	11882.7	17320.7	17736.3	15006.9	13055.7	11291.6
67°	1824.2	1817.3	1972.0	2526.2	4142.6	9790.7	17299.9	18193.5	15708.9	13090.4	10628.9
67.5°	1683.3	1676.4	1824.2	2323.0	3738.5	9104.8	17041.3	17958.0	15956.0	13041.9	10337.9
70°	1307.0	1288.5	1343.9	1600.2	2177.5	5888.2	14584.4	16496.3	15443.4	11831.9	8255.1
72.5°	944.4	965.2	1053.0	1313.9	1708.7	3168.1	11116.1	13339.8	12898.7	8917.8	5246.3
75°	658.1	676.6	817.4	1071.4	1567.9	1921.2	7516.2	9675.2	8984.8	4923.0	2235.2
77.5°	344.1	367.1	521.9	856.7	1424.7	1487.1	4491.2	6135.3	4761.4	1752.6	616.5
80°	159.3	170.9	260.9	607.3	1191.5	1307.0	2618.5	3412.9	1905.0	392.5	212.4
82.5°	69.3	76.2	120.1	348.7	845.1	1143.0	1621.0	1789.6	690.4	127.0	131.6
85°	13.9	16.2	46.2	184.7	408.7	692.7	1138.4	1062.2	346.4	62.3	103.9
87.5°	0.0	0.0	11.5	53.1	110.8	205.5	482.6	482.6	106.2	32.3	39.3
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°	4927.7	4927.7	4927.7	4927.7	4927.7	4927.7	4927.7	4927.7	4927.7	4927.7	4927.7
2.5°	4930.0	4846.8	4664.4	4495.9	4375.8	4239.5	4059.4	3978.6	3948.6	3907.0	3844.7
5°	4800.7	4699.1	4387.3	4073.3	3729.2	3468.3	3191.2	3029.6	2907.2	2831.0	2805.6
7.5°	4618.2	4410.4	3990.2	3486.8	3041.1	2653.2	2232.9	1948.9	1766.5	1692.6	1623.3
10°	4472.8	4202.6	3563.0	2937.2	2343.8	1775.7	1302.3	1053.0	863.6	792.0	782.8
12.5°	4283.4	3960.1	3163.5	2376.1	1630.2	1057.6	720.4	625.8	572.7	563.4	556.5
15°	4126.4	3740.8	2784.8	1840.4	1055.3	660.4	561.1	538.0	524.2	519.6	521.9
17.5°	4020.2	3505.2	2396.9	1339.3	695.0	540.3	517.2	503.4	496.5	494.2	487.2
20°	3810.0	3306.7	2013.5	937.5	542.6	498.8	480.3	468.8	461.8	459.5	457.2
22.5°	3690.0	3055.0	1630.2	653.5	482.6	452.6	438.7	429.5	418.0	411.0	408.7
25°	3569.9	2870.2	1288.5	508.0	438.7	418.0	397.2	385.6	367.1	357.9	355.6
27.5°	3429.0	2687.8	992.9	441.0	394.9	374.1	353.3	334.8	311.7	302.5	297.9
30°	3348.2	2510.0	748.2	394.9	362.5	334.8	309.4	286.3	260.9	244.8	240.1
32.5°	3306.7	2348.4	561.1	360.2	327.9	297.9	265.5	237.8	214.7	200.9	198.6
35°	3255.9	2191.4	441.0	327.9	295.6	263.2	230.9	203.2	180.1	168.6	163.9
37.5°	3309.0	2099.0	367.1	302.5	270.2	233.2	198.6	170.9	152.4	140.9	138.5
40°	3454.4	2022.8	318.7	279.4	244.8	205.5	173.2	145.5	129.3	120.1	115.5
42.5°	3678.4	2022.8	288.6	256.3	221.7	180.1	147.8	127.0	110.8	101.6	99.3
45°	4084.8	2085.1	263.2	233.2	194.0	154.7	127.0	106.2	90.1	80.8	78.5
47.5°	4655.2	2228.3	242.5	212.4	173.2	136.2	110.8	90.1	73.9	64.7	62.3
50°	5421.8	2553.9	221.7	187.0	154.7	117.8	92.4	71.6	57.7	48.5	46.2
52.5°	6377.8	3015.7	200.9	173.2	131.6	99.3	73.9	57.7	43.9	36.9	34.6
55°	7389.2	3581.4	175.5	154.7	113.1	83.1	60.0	43.9	32.3	27.7	25.4
57.5°	8407.5	4017.9	154.7	133.9	92.4	67.0	48.5	34.6	23.1	18.5	16.2
60°	8947.8	4059.4	133.9	110.8	73.9	53.1	36.9	25.4	16.2	11.5	9.2
62.5°	9031.0	3690.0	115.5	90.1	60.0	41.6	25.4	18.5	9.2	4.6	4.6
65°	8603.8	3075.7	99.3	71.6	46.2	30.0	18.5	11.5	4.6	2.3	0.0
67°	7911.0	2577.0	85.4	60.0	36.9	23.1	13.9	6.9	2.3	0.0	0.0
67.5°	7643.2	2438.4	80.8	55.4	34.6	20.8	11.5	6.9	2.3	0.0	0.0
70°	5932.1	1741.1	60.0	39.3	25.4	16.2	9.2	4.6	0.0	0.0	0.0
72.5°	3634.5	1018.3	46.2	27.7	18.5	11.5	6.9	2.3	0.0	0.0	0.0
75°	1524.0	351.0	39.3	20.8	13.9	6.9	4.6	2.3	0.0	0.0	0.0
77.5°	397.2	131.6	27.7	13.9	9.2	6.9	4.6	2.3	0.0	0.0	0.0
80°	161.6	60.0	18.5	9.2	9.2	6.9	4.6	2.3	0.0	0.0	0.0
82.5°	106.2	27.7	11.5	9.2	6.9	4.6	2.3	0.0	0.0	0.0	0.0
85°	80.8	16.2	6.9	6.9	4.6	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	34.6	9.2	6.9	4.6	4.6	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)