

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: P484148

Luminaire Tested: **IFLD-L-SA7A-827-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484148
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-827-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

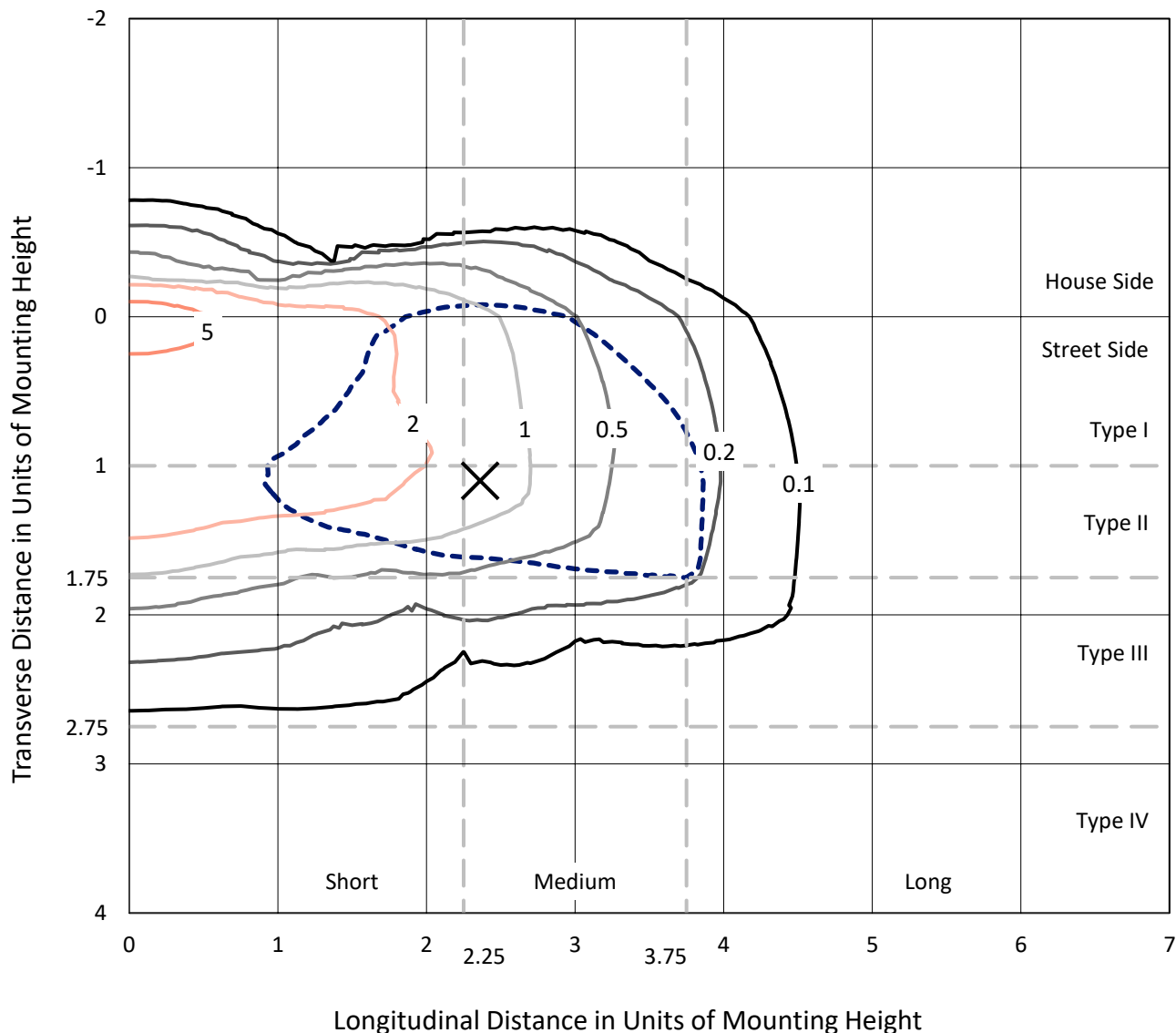
Lumens per Lamp: N/A
Luminaire Lumens: 18937.6 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 217.6
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

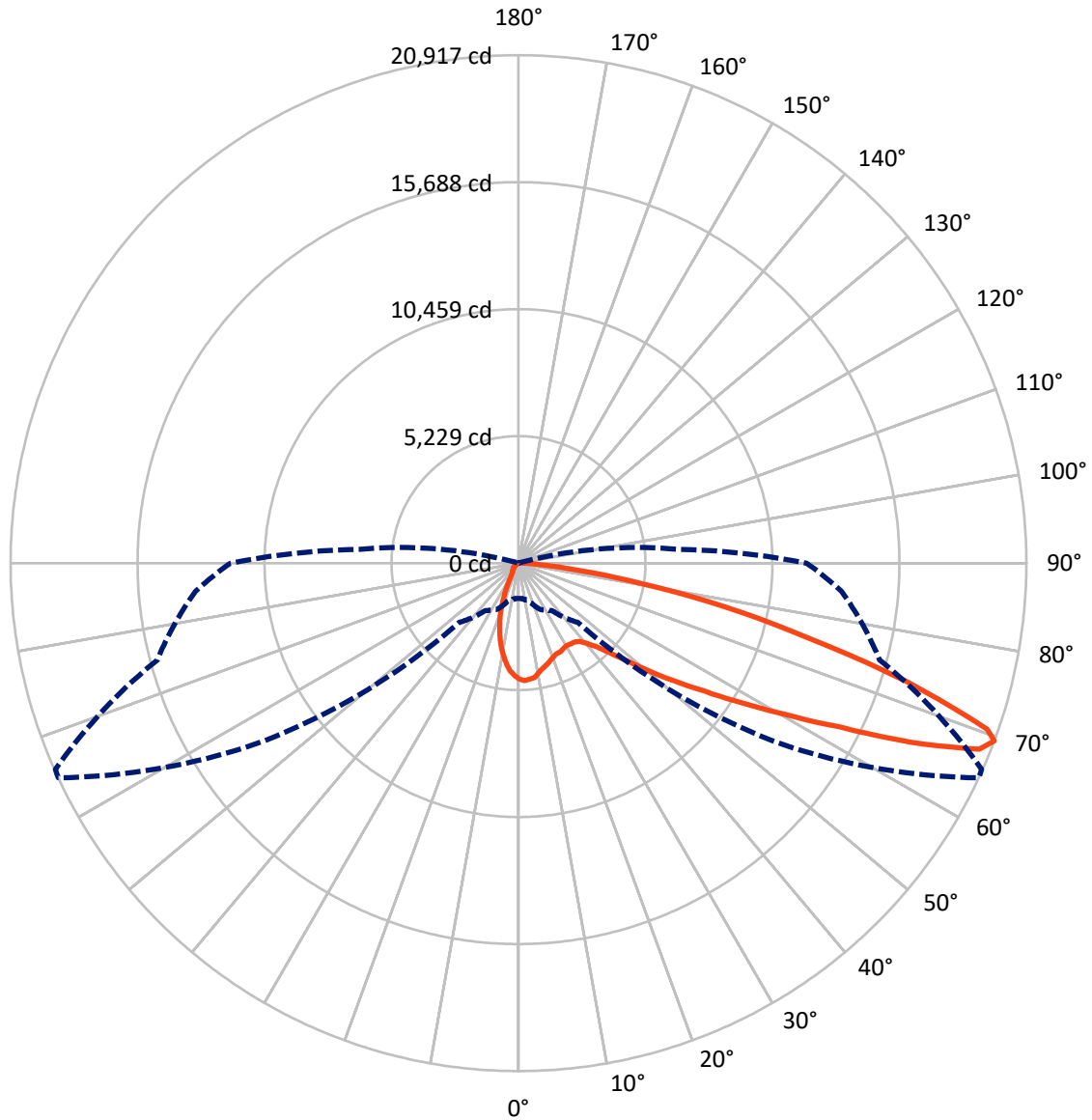
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2297.3	0.0	2297.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	16640.4	0.0	16640.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	18937.6	0.0	18937.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.7	2.1
10°-20°	854.9	4.5
20°-30°	1190.2	6.3
30°-40°	1686.6	8.9
40°-50°	2658.0	14.0
50°-60°	4313.1	22.8
60°-70°	4816.9	25.4
70°-80°	2712.4	14.3
80°-90°	314.7	1.7
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°	18937.6	100.0
0°-180°	18937.6	100.0

Coefficient of Utilization



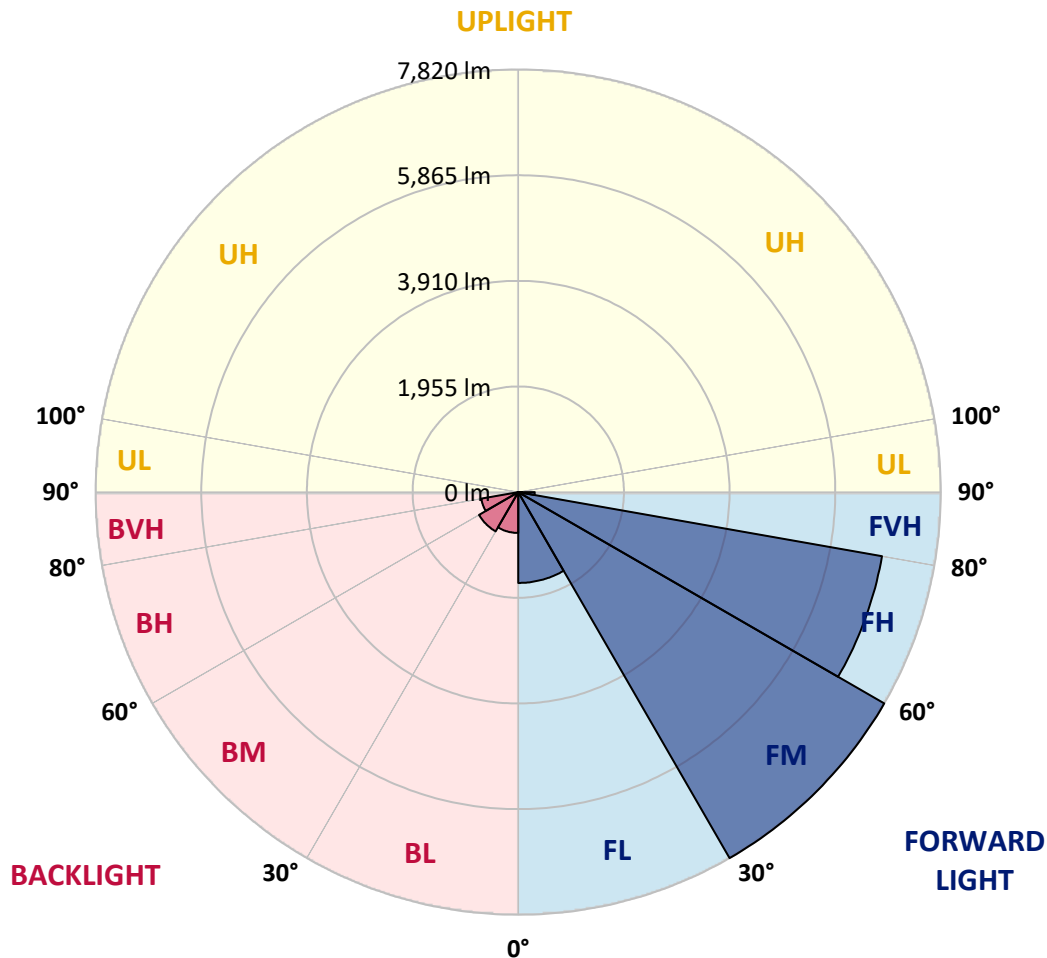
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1680.5	8.9			
FM (30°-60°)	7819.5	41.3			
FH (60°-80°)	6834.3	36.1			G3/7500
FVH (80°-90°)	306.1	1.6			G3/500
BL (0°-30°)	755.3	4.0	B2/1000		
BM (30°-60°)	838.3	4.4	B1/1000		
BH (60°-80°)	695.1	3.7	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: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4774.6	4774.6	4774.6	4774.6	4774.6	4774.6	4774.6	4774.6	4774.6	4774.6	4774.6
2.5°	4598.3	4634.1	4644.3	4680.1	4698.0	4774.6	4818.0	4843.6	4830.8	4858.9	4861.5
5°	4271.4	4250.9	4304.6	4342.9	4424.6	4557.5	4692.9	4797.6	4846.1	4892.1	4884.5
7.5°	3921.4	3911.1	3964.8	4051.7	4125.7	4286.7	4503.8	4761.8	4751.6	4864.0	4897.2
10°	3681.2	3691.4	3709.3	3796.2	3906.0	4069.5	4340.3	4580.5	4634.1	4871.7	4938.1
12.5°	3461.5	3479.4	3512.6	3602.0	3729.8	3898.4	4161.5	4442.5	4524.3	4828.3	4961.1
15°	3390.0	3349.1	3415.5	3482.0	3614.8	3765.5	3987.8	4337.8	4373.5	4777.2	4999.4
17.5°	3331.2	3305.7	3336.4	3390.0	3530.5	3653.1	3862.6	4225.4	4291.8	4756.7	4994.3
20°	3349.1	3326.1	3338.9	3379.8	3443.6	3558.6	3752.8	4118.1	4189.6	4662.2	4986.6
22.5°	3400.2	3418.1	3395.1	3405.3	3425.8	3484.5	3694.0	4041.4	4102.7	4644.3	5030.1
25°	3630.1	3599.5	3568.8	3556.1	3436.0	3461.5	3676.1	4036.3	4079.8	4580.5	4994.3
27.5°	3870.3	3844.7	3832.0	3757.9	3594.4	3517.7	3678.7	3964.8	4023.6	4554.9	4950.9
30°	4161.5	4194.7	4143.6	4054.2	3826.8	3637.8	3706.8	3929.0	4010.8	4457.8	4922.8
32.5°	4468.1	4485.9	4511.5	4445.1	4151.3	3819.2	3791.1	3962.2	3967.3	4457.8	4858.9
35°	4815.5	4789.9	4856.4	4861.5	4603.5	4141.1	3952.0	3985.2	4038.9	4437.4	4835.9
37.5°	5114.4	5157.8	5234.4	5357.1	5091.4	4595.8	4202.4	4092.5	4115.5	4531.9	4853.8
40°	5441.4	5484.8	5658.5	5781.1	5630.4	5106.7	4583.0	4342.9	4360.8	4672.4	4945.8
42.5°	5801.6	5885.9	6092.8	6307.4	6266.5	5755.6	5073.5	4710.7	4703.1	5022.4	5134.8
45°	6289.5	6401.9	6626.7	6874.5	6910.3	6499.0	5727.5	5260.0	5285.5	5479.7	5525.7
47.5°	6969.0	6963.9	7183.6	7459.5	7666.5	7270.5	6509.2	5998.3	5995.7	6202.7	6105.6
50°	7625.6	7628.1	7686.9	8006.2	8542.7	8340.9	7477.4	6979.3	6951.2	7053.4	6897.5
52.5°	7929.6	7893.8	7850.4	8236.1	9217.1	9689.7	8703.6	8090.5	8067.5	8006.2	7965.4
55°	7610.3	7623.0	7620.5	8021.6	9572.2	11112.7	10277.3	9314.2	9275.9	9084.3	9140.5
57.5°	6585.9	6545.0	6634.4	7260.3	9166.0	12083.4	12527.9	10857.2	10757.6	10121.5	9993.7
60°	4902.3	4915.1	4989.2	5727.5	8157.0	12287.8	14681.5	12668.4	12239.3	10852.1	10675.8
62.5°	3423.2	3397.7	3425.8	3839.6	5832.2	11470.3	16137.6	14870.5	14456.7	11682.4	11580.2
65°	2449.9	2416.7	2529.1	2782.0	3502.4	8770.1	16344.6	17803.3	17432.8	13008.2	12763.0
67.5°	1762.7	1757.6	1887.9	2347.7	2488.2	5050.5	14811.8	20460.1	20235.3	14581.9	13483.4
69°	1458.7	1461.3	1586.4	2102.5	2375.8	3448.8	12745.1	20917.4	20876.5	15394.2	13348.0
70°	1272.2	1282.4	1428.0	1956.9	2329.8	2835.6	10987.5	20467.7	20426.9	15552.6	12900.9
72.5°	784.3	791.9	983.5	1568.5	2214.9	2314.5	6570.5	16745.6	16886.1	14827.1	11115.2
75°	375.5	378.1	516.0	1134.3	2135.7	2194.4	3520.3	12356.8	12653.1	11971.0	8685.8
77.5°	199.3	199.3	247.8	602.9	1729.5	2064.1	2089.7	8716.4	8961.7	7569.4	4938.1
80°	99.6	102.2	150.7	314.2	1072.9	2023.3	1632.4	5198.7	5331.5	3088.6	1537.9
82.5°	38.3	40.9	71.5	189.0	556.9	1709.1	1433.2	2557.2	2524.0	723.0	375.5
85°	5.1	5.1	25.5	112.4	237.6	753.6	1182.8	1067.8	1032.1	158.4	181.4
87.5°	0.0	0.0	5.1	33.2	71.5	219.7	457.3	293.8	327.0	43.4	89.4
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°	4774.6	4774.6	4774.6	4774.6	4774.6	4774.6	4774.6	4774.6	4774.6	4774.6	4774.6
2.5°	4848.7	4795.1	4713.3	4634.1	4549.8	4447.6	4335.2	4294.3	4222.8	4217.7	4258.6
5°	4843.6	4756.7	4613.7	4445.1	4204.9	4023.6	3826.8	3683.8	3573.9	3502.4	3520.3
7.5°	4869.1	4764.4	4516.6	4153.8	3844.7	3484.5	3180.5	2971.0	2779.4	2684.9	2674.7
10°	4828.3	4687.8	4325.0	3816.6	3361.9	2858.6	2414.1	2133.1	1847.0	1742.3	1747.4
12.5°	4851.3	4654.5	4118.1	3469.2	2843.3	2189.3	1658.0	1274.8	1006.5	919.7	909.5
15°	4866.6	4583.0	3918.8	3052.8	2268.5	1491.9	960.5	723.0	638.7	623.3	620.8
17.5°	4807.8	4496.2	3637.8	2641.5	1681.0	906.9	638.7	590.1	574.8	564.6	559.5
20°	4805.3	4445.1	3395.1	2220.0	1121.5	618.2	551.8	533.9	510.9	503.3	503.3
22.5°	4761.8	4337.8	3103.9	1757.6	715.3	531.4	495.6	467.5	442.0	431.7	429.2
25°	4749.1	4212.6	2830.5	1320.7	544.1	475.2	439.4	398.5	367.9	352.5	344.9
27.5°	4713.3	4105.3	2554.6	929.9	475.2	424.1	378.1	334.7	298.9	275.9	273.3
30°	4585.6	3992.9	2248.1	643.8	431.7	375.5	324.4	273.3	237.6	222.3	217.1
32.5°	4531.9	3888.2	1913.4	495.6	393.4	332.1	273.3	227.4	199.3	183.9	181.4
35°	4468.1	3734.9	1589.0	431.7	357.6	288.7	229.9	191.6	168.6	155.8	155.8
37.5°	4475.7	3612.3	1285.0	390.9	319.3	247.8	196.7	163.5	143.1	130.3	130.3
40°	4452.7	3515.2	998.9	355.1	283.6	212.0	166.1	138.0	120.1	107.3	104.7
42.5°	4557.5	3489.6	753.6	324.4	247.8	181.4	143.1	117.5	99.6	84.3	84.3
45°	4733.7	3530.5	587.6	296.3	212.0	155.8	122.6	97.1	79.2	69.0	66.4
47.5°	5203.8	3691.4	459.8	273.3	181.4	135.4	102.2	79.2	63.9	53.6	51.1
50°	5885.9	4051.7	390.9	240.1	153.3	115.0	84.3	61.3	51.1	40.9	38.3
52.5°	6856.6	4657.1	355.1	212.0	127.7	94.5	66.4	48.5	38.3	30.7	28.1
55°	7914.3	5413.3	321.9	178.8	107.3	76.6	53.6	38.3	28.1	20.4	17.9
57.5°	8739.4	6067.3	293.8	148.2	86.9	61.3	40.9	28.1	20.4	12.8	10.2
60°	9641.2	6527.1	258.0	117.5	71.5	46.0	30.7	20.4	15.3	7.7	7.7
62.5°	10571.1	7066.1	212.0	92.0	56.2	35.8	23.0	15.3	10.2	2.6	2.6
65°	11863.7	7487.6	163.5	71.5	43.4	25.5	17.9	12.8	5.1	0.0	0.0
67.5°	12229.0	7280.7	120.1	56.2	30.7	17.9	12.8	7.7	2.6	0.0	0.0
69°	11863.7	6557.8	104.7	48.5	25.5	15.3	10.2	5.1	2.6	0.0	0.0
70°	11197.0	5995.7	92.0	40.9	23.0	15.3	7.7	5.1	2.6	0.0	0.0
72.5°	9365.3	4598.3	71.5	30.7	17.9	12.8	7.7	5.1	0.0	0.0	0.0
75°	6869.4	2840.8	53.6	23.0	15.3	10.2	7.7	5.1	0.0	0.0	0.0
77.5°	3681.2	1037.2	38.3	15.3	10.2	7.7	7.7	5.1	0.0	0.0	0.0
80°	1009.1	306.6	28.1	10.2	7.7	5.1	5.1	2.6	0.0	0.0	0.0
82.5°	275.9	79.2	17.9	10.2	7.7	5.1	2.6	0.0	0.0	0.0	0.0
85°	148.2	30.7	10.2	7.7	5.1	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	76.6	10.2	7.7	5.1	5.1	2.6	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)