

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: P484574

Luminaire Tested: **IFLD-M-SA4C-830-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484574
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-830-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

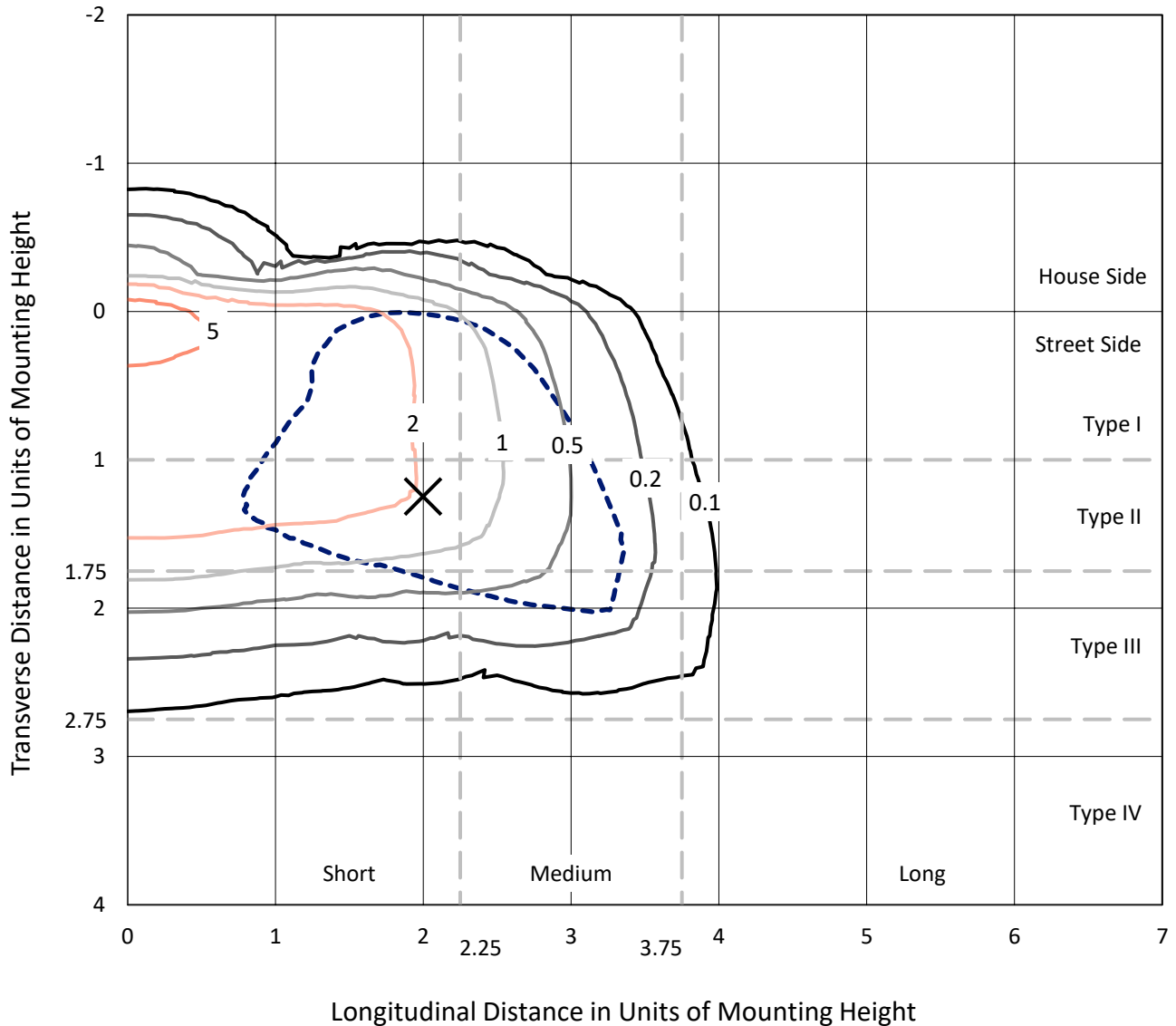
Lumens per Lamp: N/A
Luminaire Lumens: 18893.4 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 218.1
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

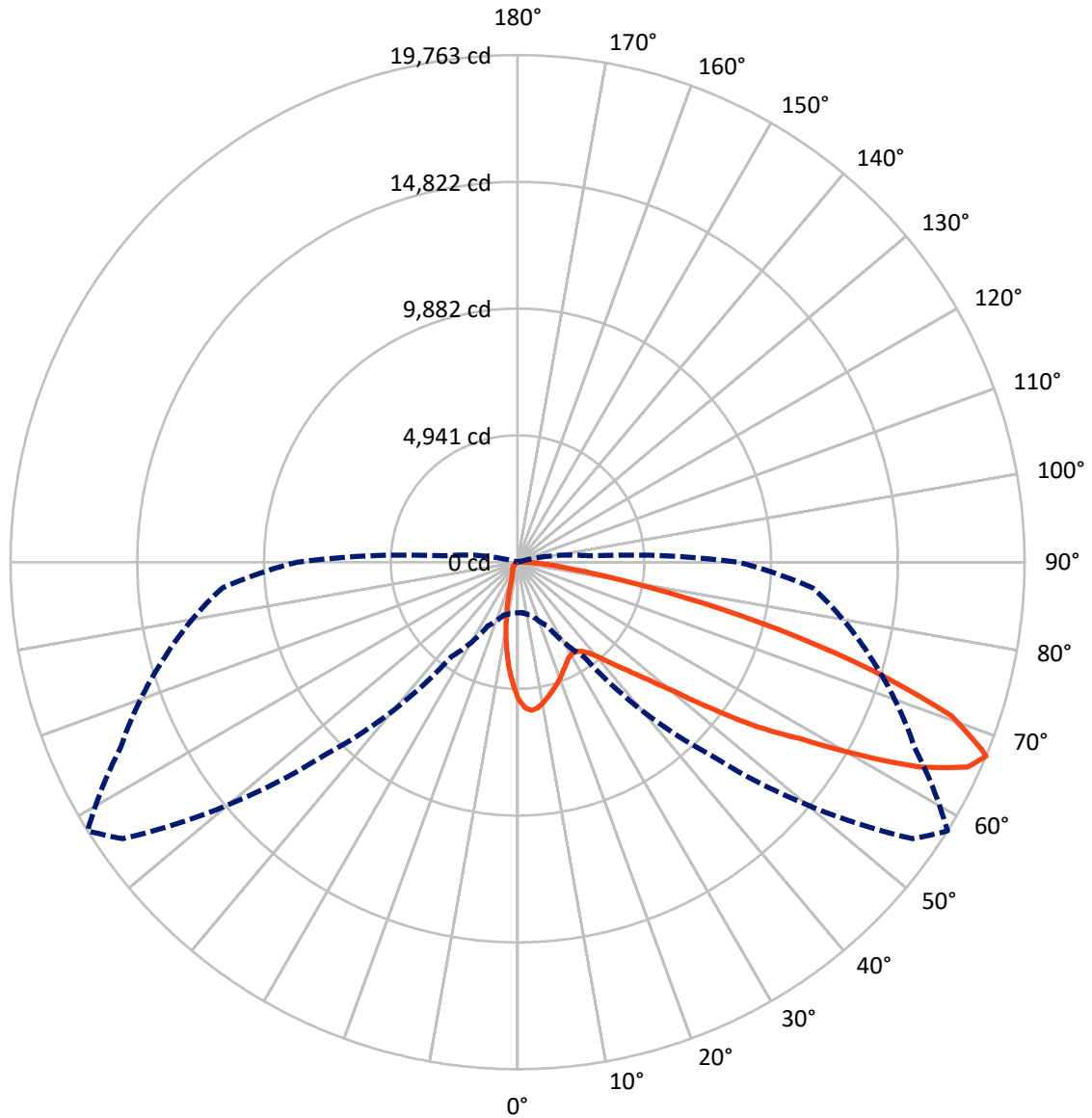
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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
House Side	Lumens	1561.7	0.0	1561.7
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	17331.8	0.0	17331.8
	% Fixture	91.7	0.0	91.7
Total	Lumens	18893.4	0.0	18893.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.7	2.2
10°-20°	880.9	4.7
20°-30°	1168.8	6.2
30°-40°	1619.6	8.6
40°-50°	2642.7	14.0
50°-60°	4645.1	24.6
60°-70°	5144.8	27.2
70°-80°	2132.0	11.3
80°-90°	234.7	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°	18893.4	100.0
0°-180°	18893.4	100.0

Coefficient of Utilization



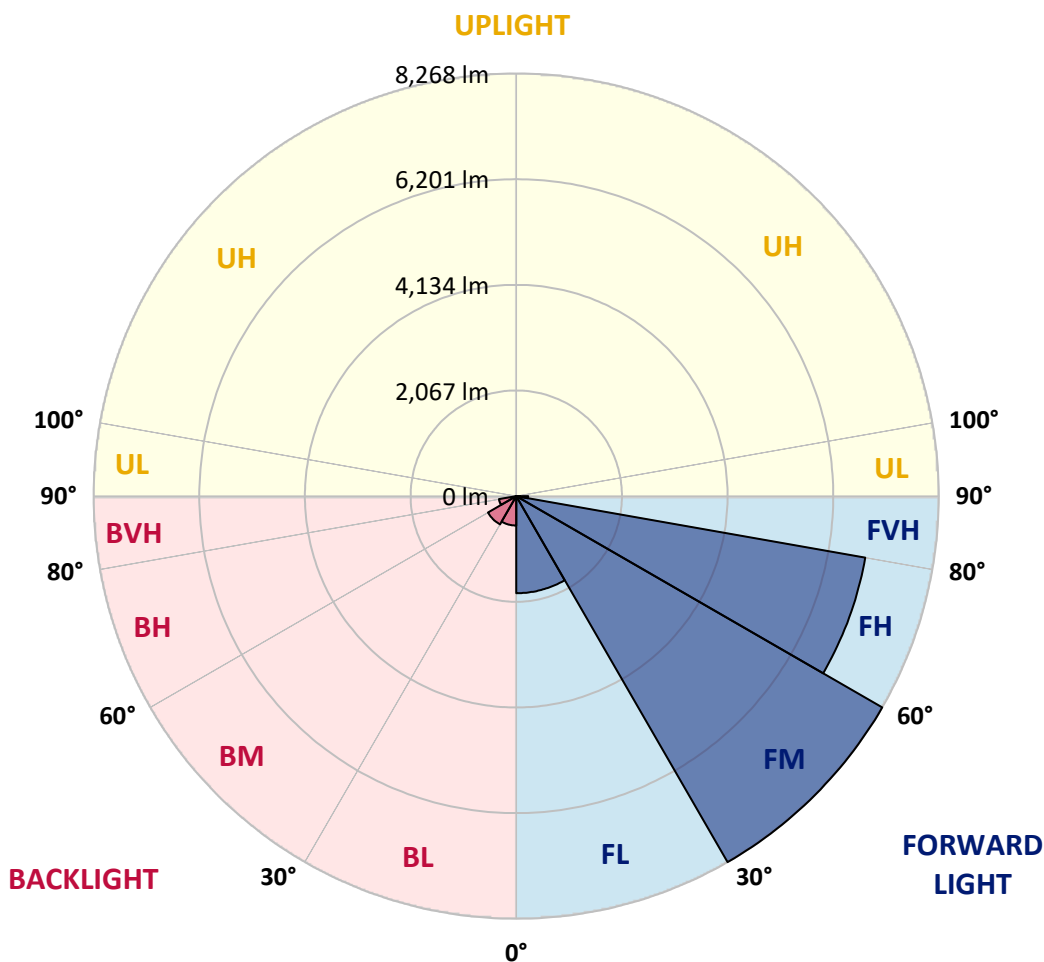
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1899.3	10.1			
FM (30°-60°)	8268.1	43.8			
FH (60°-80°)	6933.5	36.7			G3/7500
FVH (80°-90°)	230.8	1.2			G3/500
BL (0°-30°)	575.2	3.0	B2/1000		
BM (30°-60°)	639.3	3.4	B1/1000		
BH (60°-80°)	343.3	1.8	B1/500		G1/500
BVH (80°-90°)	3.9	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°	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8
2.5°	5824.3	5844.4	5862.0	5829.3	5856.9	5816.8	5714.0	5691.4	5673.8	5520.8	5433.0
5°	5821.8	5799.2	5816.8	5831.9	5794.2	5824.3	5799.2	5801.8	5734.0	5596.1	5350.3
7.5°	5433.0	5423.0	5433.0	5505.8	5588.5	5653.8	5691.4	5729.0	5683.9	5478.2	5239.9
10°	4908.8	4959.0	4986.6	5117.0	5244.9	5365.3	5483.2	5553.4	5540.9	5458.1	5119.5
12.5°	4542.6	4527.5	4627.9	4713.1	4841.1	5084.4	5290.1	5355.3	5430.5	5315.1	4961.5
15°	4204.0	4163.8	4224.0	4372.0	4590.2	4783.4	5071.8	5169.7	5265.0	5295.1	4876.2
17.5°	3880.4	3900.4	3963.2	4096.1	4301.8	4572.7	4843.6	4984.0	5212.3	5172.2	4748.3
20°	3724.9	3767.5	3790.1	3857.8	4000.8	4271.7	4675.5	4788.4	5031.7	5169.7	4622.8
22.5°	3732.4	3732.4	3679.7	3719.8	3850.3	4061.0	4447.3	4572.7	4959.0	5039.2	4510.0
25°	3812.7	3762.5	3765.0	3717.3	3772.5	3887.9	4241.6	4394.6	4811.0	5051.8	4449.8
27.5°	3872.9	3862.8	3847.8	3835.2	3765.0	3782.6	4106.1	4231.5	4753.3	5036.7	4357.0
30°	4091.1	4045.9	4030.9	4003.3	3910.5	3825.2	3998.3	4156.3	4708.1	5071.8	4304.3
32.5°	4274.2	4281.7	4294.3	4214.0	4133.7	3923.0	4028.4	4153.8	4675.5	5152.1	4357.0
35°	4505.0	4537.6	4542.6	4517.5	4432.2	4224.0	4153.8	4261.6	4730.7	5295.1	4362.0
37.5°	4856.1	4821.0	4916.3	4926.4	4866.2	4590.2	4444.8	4487.4	4893.7	5523.3	4552.6
40°	5084.4	5127.0	5305.1	5415.5	5312.6	5061.8	4866.2	4858.6	5129.5	5882.0	4788.4
42.5°	5337.7	5433.0	5628.7	5867.0	5854.4	5621.2	5423.0	5390.4	5548.4	6401.2	5162.1
45°	5683.9	5769.1	6042.6	6401.2	6596.9	6398.7	6100.2	6035.0	6057.6	7108.6	5799.2
47.5°	6258.3	6235.7	6629.5	6983.2	7304.2	7151.2	7023.3	6832.7	6815.1	7941.4	6679.7
50°	6907.9	6902.9	7254.1	7655.4	8026.6	8325.1	8111.9	7903.7	7908.7	9072.6	7715.6
52.5°	7525.0	7622.8	8001.6	8400.4	9037.5	9358.6	9564.2	9481.5	9082.6	10083.5	8824.3
55°	7851.1	7936.3	8312.6	8999.9	10005.7	10830.9	11387.8	11317.6	10547.5	11222.2	9917.9
57.5°	7542.5	7600.2	8109.4	9009.9	10683.0	12524.1	13058.3	12970.5	12062.5	12092.6	11239.8
60°	6250.7	6341.0	7098.6	8154.6	10419.6	13828.4	15358.5	15225.5	13442.1	13193.8	12090.1
62.5°	4329.4	4389.6	5011.6	6326.0	9170.4	14282.4	17530.7	17603.4	14896.9	14051.6	12343.5
65°	2804.3	2799.3	3155.5	4045.9	6499.1	12907.8	18814.9	19266.4	16301.6	14182.1	12265.7
67°	1981.6	1974.1	2142.1	2744.1	4499.9	10635.3	18792.4	19763.1	17064.1	14219.7	11545.8
67.5°	1828.6	1821.0	1981.6	2523.4	4061.0	9890.3	18511.4	19507.2	17332.5	14167.0	11229.8
70°	1419.7	1399.6	1459.8	1738.3	2365.4	6396.2	15842.6	17919.5	16775.7	12852.7	8967.3
72.5°	1025.9	1048.5	1143.8	1427.2	1856.2	3441.4	12075.1	14490.6	14011.5	9687.2	5698.9
75°	714.9	734.9	887.9	1163.9	1703.2	2086.9	8164.6	10509.9	9759.9	5347.7	2428.1
77.5°	373.7	398.8	566.9	930.6	1547.6	1615.4	4878.7	6664.6	5172.2	1903.8	669.7
80°	173.1	185.6	283.4	659.7	1294.3	1419.7	2844.4	3707.3	2069.4	426.4	230.8
82.5°	75.2	82.8	130.4	378.8	918.0	1241.6	1760.8	1944.0	750.0	138.0	143.0
85°	15.0	17.6	50.2	200.7	444.0	752.5	1236.6	1153.8	376.2	67.7	112.9
87.5°	0.0	0.0	12.5	57.7	120.4	223.2	524.2	524.2	115.4	35.1	42.6
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°	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8	5352.8
2.5°	5355.3	5265.0	5066.8	4883.7	4753.3	4605.3	4409.6	4321.8	4289.2	4244.1	4176.4
5°	5214.8	5104.4	4765.8	4424.7	4050.9	3767.5	3466.5	3290.9	3158.0	3075.2	3047.6
7.5°	5016.6	4790.9	4334.4	3787.6	3303.5	2882.1	2425.6	2117.0	1918.9	1838.6	1763.4
10°	4858.6	4565.2	3870.3	3190.6	2545.9	1928.9	1414.7	1143.8	938.1	860.4	850.3
12.5°	4652.9	4301.8	3436.4	2581.1	1770.9	1148.8	782.6	679.8	622.1	612.0	604.5
15°	4482.4	4063.5	3025.0	1999.1	1146.3	717.4	609.5	584.4	569.4	564.4	566.9
17.5°	4367.0	3807.6	2603.6	1454.8	755.0	586.9	561.9	546.8	539.3	536.8	529.3
20°	4138.7	3591.9	2187.3	1018.4	589.5	541.8	521.7	509.2	501.7	499.2	496.6
22.5°	4008.3	3318.5	1770.9	709.9	524.2	491.6	476.6	466.5	454.0	446.5	444.0
25°	3877.9	3117.8	1399.6	551.8	476.6	454.0	431.4	418.9	398.8	388.8	386.3
27.5°	3724.9	2919.7	1078.6	479.1	428.9	406.3	383.8	363.7	338.6	328.6	323.6
30°	3637.1	2726.5	812.7	428.9	393.8	363.7	336.1	311.0	283.4	265.9	260.9
32.5°	3591.9	2551.0	609.5	391.3	356.2	323.6	288.5	258.4	233.3	218.2	215.7
35°	3536.7	2380.4	479.1	356.2	321.1	285.9	250.8	220.7	195.6	183.1	178.1
37.5°	3594.4	2280.1	398.8	328.6	293.5	253.3	215.7	185.6	165.5	153.0	150.5
40°	3752.5	2197.3	346.1	303.5	265.9	223.2	188.1	158.0	140.5	130.4	125.4
42.5°	3995.8	2197.3	313.5	278.4	240.8	195.6	160.5	138.0	120.4	110.4	107.9
45°	4437.2	2265.0	285.9	253.3	210.7	168.1	138.0	115.4	97.8	87.8	85.3
47.5°	5056.8	2420.5	263.4	230.8	188.1	148.0	120.4	97.8	80.3	70.2	67.7
50°	5889.5	2774.2	240.8	203.2	168.1	127.9	100.3	77.8	62.7	52.7	50.2
52.5°	6928.0	3275.9	218.2	188.1	143.0	107.9	80.3	62.7	47.7	40.1	37.6
55°	8026.6	3890.4	190.6	168.1	122.9	90.3	65.2	47.7	35.1	30.1	27.6
57.5°	9132.8	4364.5	168.1	145.5	100.3	72.7	52.7	37.6	25.1	20.1	17.6
60°	9719.8	4409.6	145.5	120.4	80.3	57.7	40.1	27.6	17.6	12.5	10.0
62.5°	9810.1	4008.3	125.4	97.8	65.2	45.1	27.6	20.1	10.0	5.0	5.0
65°	9346.0	3341.1	107.9	77.8	50.2	32.6	20.1	12.5	5.0	2.5	0.0
67°	8593.5	2799.3	92.8	65.2	40.1	25.1	15.0	7.5	2.5	0.0	0.0
67.5°	8302.6	2648.8	87.8	60.2	37.6	22.6	12.5	7.5	2.5	0.0	0.0
70°	6443.9	1891.3	65.2	42.6	27.6	17.6	10.0	5.0	0.0	0.0	0.0
72.5°	3948.1	1106.2	50.2	30.1	20.1	12.5	7.5	2.5	0.0	0.0	0.0
75°	1655.5	381.3	42.6	22.6	15.0	7.5	5.0	2.5	0.0	0.0	0.0
77.5°	431.4	143.0	30.1	15.0	10.0	7.5	5.0	2.5	0.0	0.0	0.0
80°	175.6	65.2	20.1	10.0	10.0	7.5	5.0	2.5	0.0	0.0	0.0
82.5°	115.4	30.1	12.5	10.0	7.5	5.0	2.5	0.0	0.0	0.0	0.0
85°	87.8	17.6	7.5	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	37.6	10.0	7.5	5.0	5.0	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)