

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: P484645

Luminaire Tested: **IFLD-S-SA6A-722-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484645
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-722-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

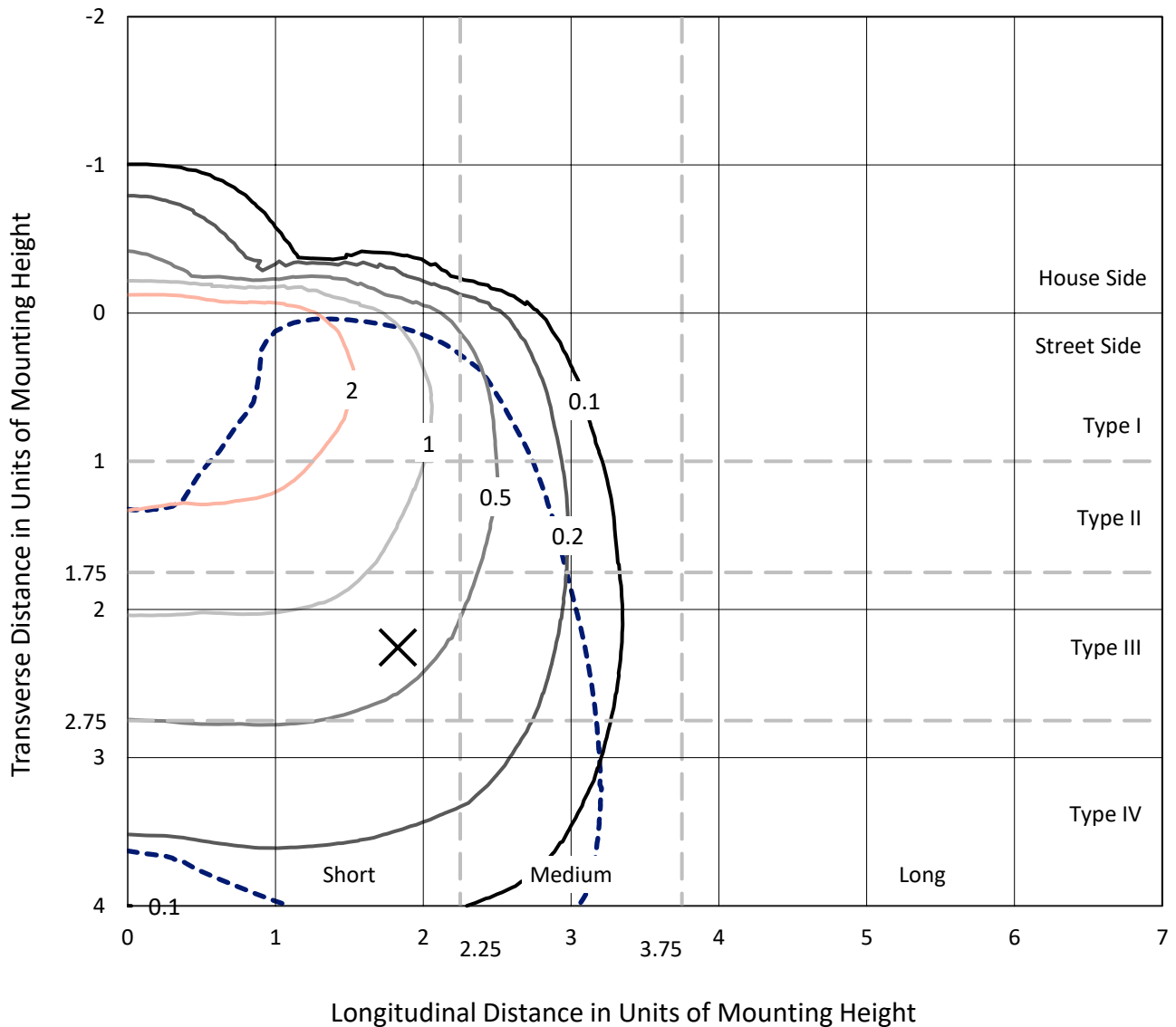
Lumens per Lamp: N/A
Luminaire Lumens: 16423.9 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 189.6
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

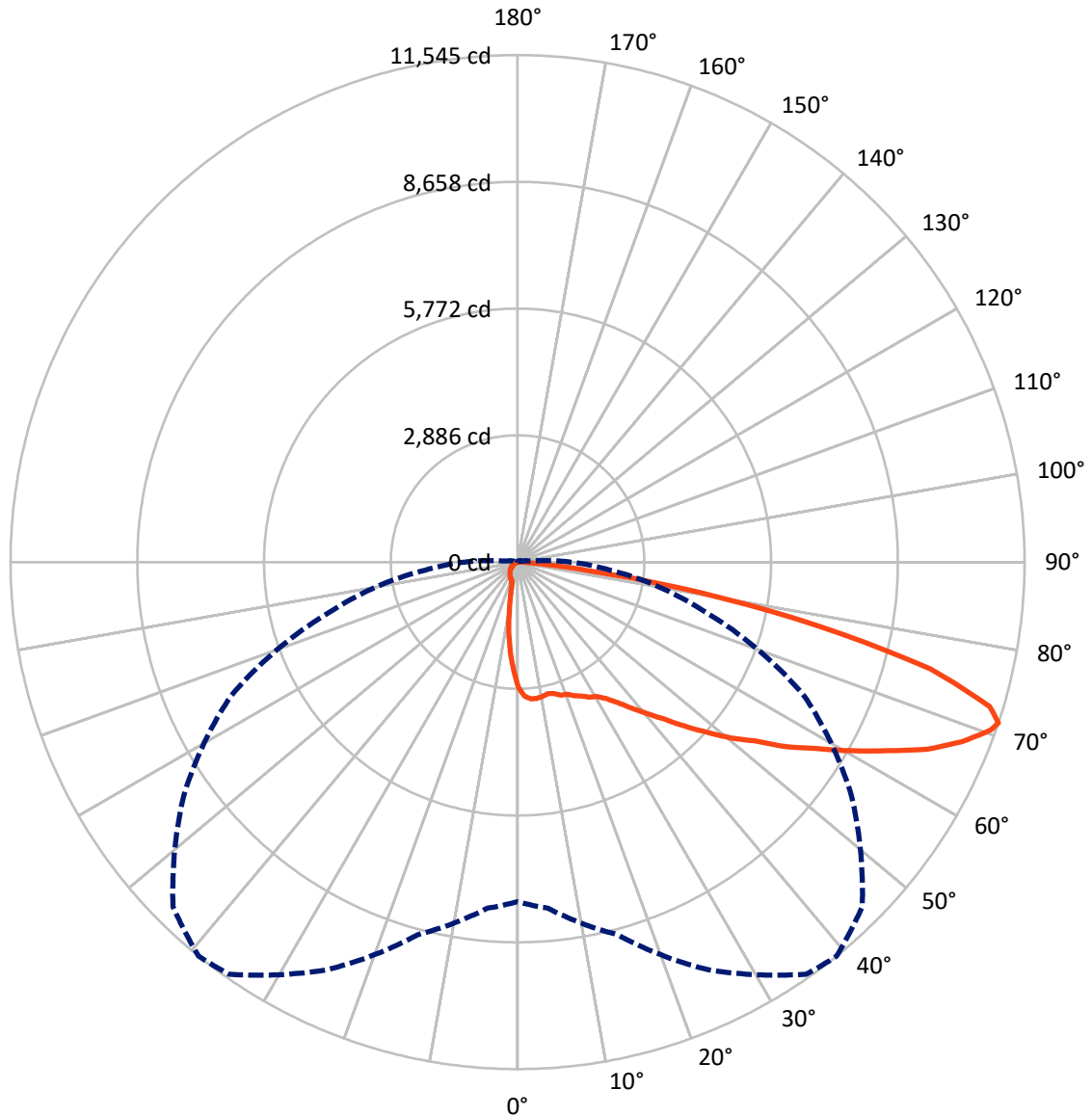
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1236.5	0.0	1236.5
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	15187.4	0.0	15187.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	16423.9	0.0	16423.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.0	1.5
10°-20°	588.3	3.6
20°-30°	944.4	5.8
30°-40°	1445.6	8.8
40°-50°	2320.5	14.1
50°-60°	3408.4	20.8
60°-70°	4292.7	26.1
70°-80°	2864.9	17.4
80°-90°	320.2	1.9
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°	16423.9	100.0
0°-180°	16423.9	100.0



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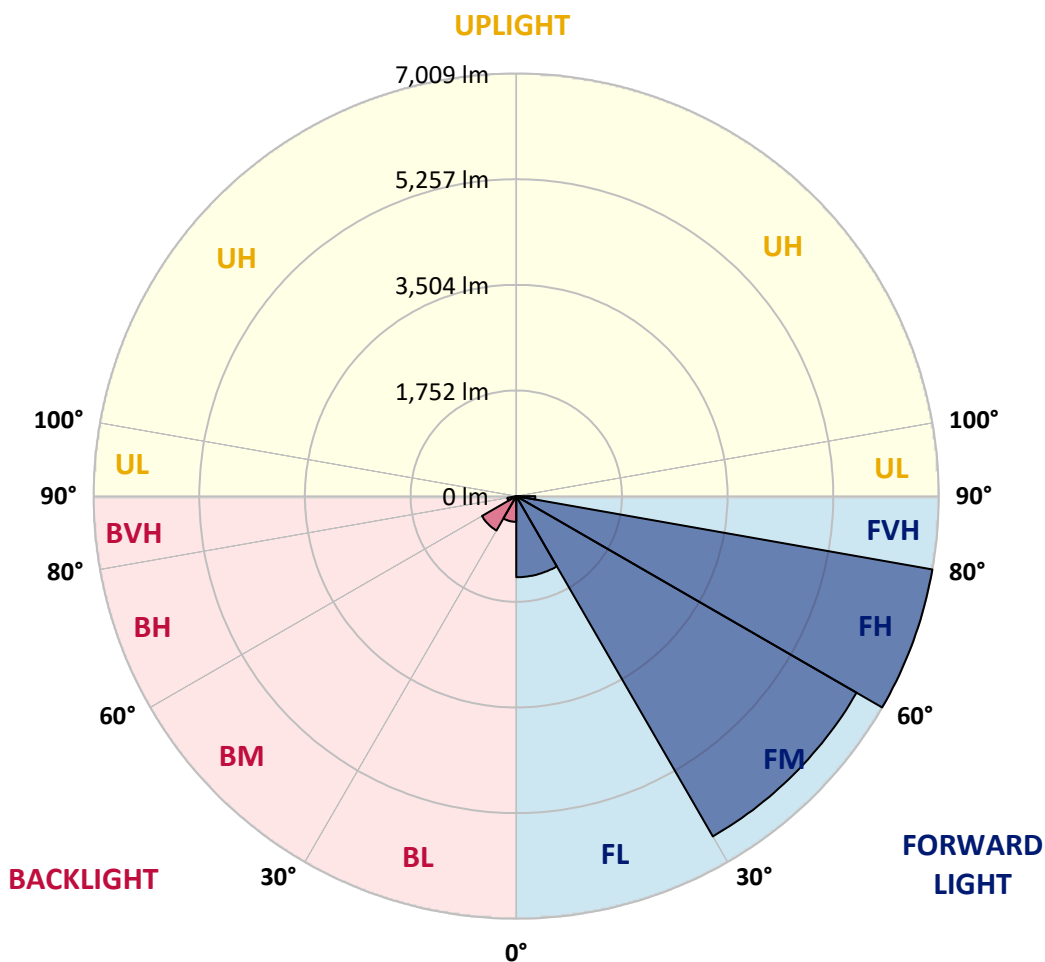
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1344.8	8.2			
FM (30°-60°)	6517.2	39.7			
FH (60°-80°)	7008.8	42.7			G3/7500
FVH (80°-90°)	316.6	1.9			G3/500
BL (0°-30°)	426.9	2.6	B1/500		
BM (30°-60°)	657.2	4.0	B1/1000		
BH (60°-80°)	148.8	0.9	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: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2858.7	2858.7	2858.7	2858.7	2858.7	2858.7	2858.7	2858.7	2858.7	2858.7	2858.7
2.5°	3080.6	3110.7	3080.6	3067.6	3054.7	3056.9	3022.4	3028.9	2987.9	2934.1	2891.0
5°	3177.5	3218.4	3186.1	3171.0	3168.9	3128.0	3110.7	3069.8	3020.2	2936.2	2884.5
7.5°	3168.9	3160.3	3175.4	3162.4	3134.4	3134.4	3115.0	3056.9	3007.3	2912.5	2824.2
10°	3104.3	3130.1	3117.2	3102.1	3108.6	3110.7	3074.1	3033.2	3018.1	2923.3	2779.0
12.5°	3097.8	3054.7	3102.1	3104.3	3076.3	3074.1	3069.8	3059.0	3011.6	2925.5	2789.7
15°	3076.3	3059.0	3106.4	3108.6	3115.0	3108.6	3115.0	3106.4	3059.0	3009.5	2837.1
17.5°	3093.5	3074.1	3140.9	3173.2	3158.1	3188.3	3177.5	3138.7	3097.8	3039.6	2882.4
20°	3097.8	3125.8	3199.0	3212.0	3259.4	3209.8	3207.7	3166.7	3140.9	3078.4	2910.4
22.5°	3177.5	3190.4	3280.9	3308.9	3311.1	3304.6	3250.8	3203.4	3192.6	3115.0	2916.8
25°	3298.1	3343.4	3384.3	3401.5	3408.0	3377.9	3321.8	3261.5	3235.7	3186.1	2983.6
27.5°	3511.4	3483.4	3520.0	3545.9	3472.6	3483.4	3412.3	3360.6	3324.0	3280.9	3061.2
30°	3701.0	3675.1	3677.3	3673.0	3610.5	3552.3	3533.0	3442.5	3397.2	3414.5	3181.8
32.5°	3871.2	3815.2	3862.6	3841.0	3724.7	3707.5	3692.4	3578.2	3586.8	3666.5	3362.8
35°	4028.4	4009.0	4047.8	4009.0	3931.5	3927.2	3912.1	3813.0	3860.4	3974.6	3673.0
37.5°	4172.8	4179.2	4226.6	4207.2	4213.7	4218.0	4209.4	4103.8	4239.5	4495.9	4034.9
40°	4306.3	4297.7	4414.0	4474.4	4487.3	4534.7	4534.7	4508.8	4717.8	5006.5	4536.8
42.5°	4448.5	4470.1	4620.8	4722.1	4844.9	4885.8	4941.8	4954.8	5277.9	5607.5	5049.5
45°	4681.2	4644.5	4836.3	5075.4	5183.1	5327.4	5413.6	5486.9	5876.8	6329.2	5562.3
47.5°	4976.3	4903.1	5071.1	5417.9	5667.8	5786.3	5941.4	6038.3	6419.6	6887.1	6047.0
50°	5303.7	5228.3	5310.2	5788.4	6079.3	6294.7	6492.9	6615.7	7076.7	7511.8	6400.3
52.5°	5674.3	5605.3	5618.3	6174.1	6602.8	6760.0	7020.7	7203.8	7662.6	7888.8	6525.2
55°	6068.5	6051.3	6010.3	6551.0	7061.6	7414.9	7572.2	7791.9	8263.7	8093.5	6660.9
57.5°	6464.9	6411.0	6469.2	7050.8	7798.4	8009.5	8227.1	8358.5	8597.6	8272.3	6609.2
60°	6837.6	6841.9	6923.7	7593.7	8425.2	8724.7	8920.7	8841.0	8940.1	8349.8	6490.7
62.5°	7152.1	7143.5	7350.3	8203.4	9254.6	9457.1	9603.6	9248.2	9099.5	8425.2	6283.9
65°	7434.3	7531.2	7856.5	8929.3	10034.5	10267.1	10178.8	9633.8	9254.6	8203.4	5702.3
67.5°	7647.6	7791.9	8356.3	9612.2	10749.7	10913.4	10790.6	9926.7	9071.5	7333.0	4644.5
70°	7772.5	7919.0	8713.9	10180.9	11320.5	11439.0	11150.4	9700.6	8003.0	5310.2	2897.5
71°	7733.7	7912.5	8782.8	10241.3	11456.3	11544.6	11096.5	9282.6	7197.3	4446.4	2113.3
72.5°	7382.6	7550.6	8496.3	10198.2	11292.5	11238.7	10676.4	8278.8	5665.7	2835.0	1092.2
75°	5424.4	5605.3	7292.1	8821.6	10079.7	9709.2	8640.7	5810.0	2955.6	868.2	318.8
77.5°	2701.4	2731.6	4526.1	6404.6	7393.4	7025.0	5790.6	3240.0	1105.1	256.4	159.4
80°	1245.2	1253.8	1697.5	3317.5	4470.1	4207.2	3244.3	1598.4	499.8	135.7	124.9
82.5°	848.8	861.7	1023.3	1374.4	1941.0	1637.2	1314.1	1023.3	286.5	81.9	122.8
85°	155.1	142.2	573.0	728.1	749.7	508.4	454.5	885.4	107.7	47.4	107.7
87.5°	0.0	2.2	79.7	297.3	267.1	118.5	155.1	215.4	10.8	15.1	19.4
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°	2858.7	2858.7	2858.7	2858.7	2858.7	2858.7	2858.7	2858.7	2858.7	2858.7	2858.7
2.5°	2854.4	2830.7	2751.0	2662.6	2582.9	2520.5	2440.8	2404.1	2346.0	2313.7	2311.5
5°	2813.4	2748.8	2610.9	2462.3	2296.4	2158.6	2005.6	1919.4	1820.3	1790.2	1783.7
7.5°	2744.5	2651.9	2449.4	2240.4	1986.2	1742.8	1555.4	1355.0	1232.2	1180.5	1161.1
10°	2701.4	2589.4	2313.7	2001.3	1645.8	1303.3	1040.5	827.2	715.2	661.4	648.4
12.5°	2701.4	2580.8	2203.8	1772.9	1301.2	891.9	644.1	521.3	484.7	471.8	471.8
15°	2695.0	2563.5	2098.2	1538.1	962.9	598.9	480.4	454.5	450.2	448.1	445.9
17.5°	2727.3	2533.4	1990.5	1286.1	680.7	471.8	441.6	437.3	433.0	433.0	428.7
20°	2751.0	2516.2	1861.3	1019.0	508.4	437.3	424.4	417.9	415.8	413.6	417.9
22.5°	2731.6	2490.3	1701.9	762.6	443.8	415.8	407.2	400.7	396.4	396.4	398.5
25°	2768.2	2466.6	1542.4	575.2	415.8	396.4	387.8	383.5	381.3	379.1	374.8
27.5°	2817.7	2477.4	1352.9	463.2	392.1	377.0	368.4	364.1	361.9	357.6	361.9
30°	2878.1	2475.2	1143.9	405.0	370.5	355.4	346.8	344.7	340.4	338.2	340.4
32.5°	2981.5	2531.2	928.5	374.8	346.8	333.9	325.3	323.1	321.0	318.8	316.7
35°	3203.4	2600.2	726.0	351.1	325.3	310.2	303.7	299.4	297.3	295.1	293.0
37.5°	3476.9	2753.1	553.6	329.6	303.7	288.7	282.2	280.1	271.4	269.3	267.1
40°	3819.5	2916.8	426.5	305.9	284.4	269.3	262.8	256.4	245.6	241.3	237.0
42.5°	4246.0	3076.3	351.1	284.4	262.8	252.0	241.3	230.5	221.9	213.3	209.0
45°	4672.6	3261.5	308.1	265.0	245.6	232.7	224.0	209.0	193.9	181.0	178.8
47.5°	5028.0	3328.3	282.2	243.4	228.3	217.6	204.7	185.3	163.7	150.8	148.6
50°	5293.0	3289.5	256.4	221.9	209.0	198.2	181.0	157.3	135.7	122.8	118.5
52.5°	5344.7	3119.3	232.7	204.7	189.6	176.6	157.3	131.4	107.7	94.8	92.6
55°	5308.1	2837.1	213.3	189.6	172.3	153.0	131.4	105.6	84.0	71.1	68.9
57.5°	5232.7	2503.2	191.7	170.2	150.8	131.4	107.7	86.2	62.5	49.5	49.5
60°	4976.3	2048.7	170.2	148.6	129.3	112.0	88.3	62.5	43.1	32.3	30.2
62.5°	4618.7	1574.8	148.6	127.1	112.0	92.6	68.9	45.2	25.9	17.2	17.2
65°	3966.0	1103.0	124.9	105.6	92.6	75.4	51.7	28.0	15.1	6.5	6.5
67.5°	3013.8	682.9	103.4	88.3	79.7	60.3	36.6	17.2	6.5	2.2	0.0
70°	1729.9	355.4	81.9	71.1	62.5	45.2	25.9	8.6	4.3	0.0	0.0
71°	1208.5	262.8	73.2	62.5	56.0	40.9	21.5	6.5	2.2	0.0	0.0
72.5°	605.3	174.5	62.5	51.7	45.2	32.3	17.2	6.5	2.2	0.0	0.0
75°	215.4	112.0	43.1	34.5	32.3	23.7	10.8	4.3	2.2	0.0	0.0
77.5°	148.6	90.5	30.2	21.5	21.5	15.1	6.5	2.2	2.2	0.0	0.0
80°	135.7	49.5	19.4	12.9	10.8	8.6	4.3	2.2	0.0	0.0	0.0
82.5°	135.7	36.6	10.8	8.6	6.5	4.3	2.2	0.0	0.0	0.0	0.0
85°	94.8	19.4	6.5	6.5	4.3	2.2	0.0	0.0	0.0	0.0	0.0
87.5°	15.1	6.5	4.3	2.2	2.2	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)