

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: P484633

Luminaire Tested: **IFLD-S-SA3D-722-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484633
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-722-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

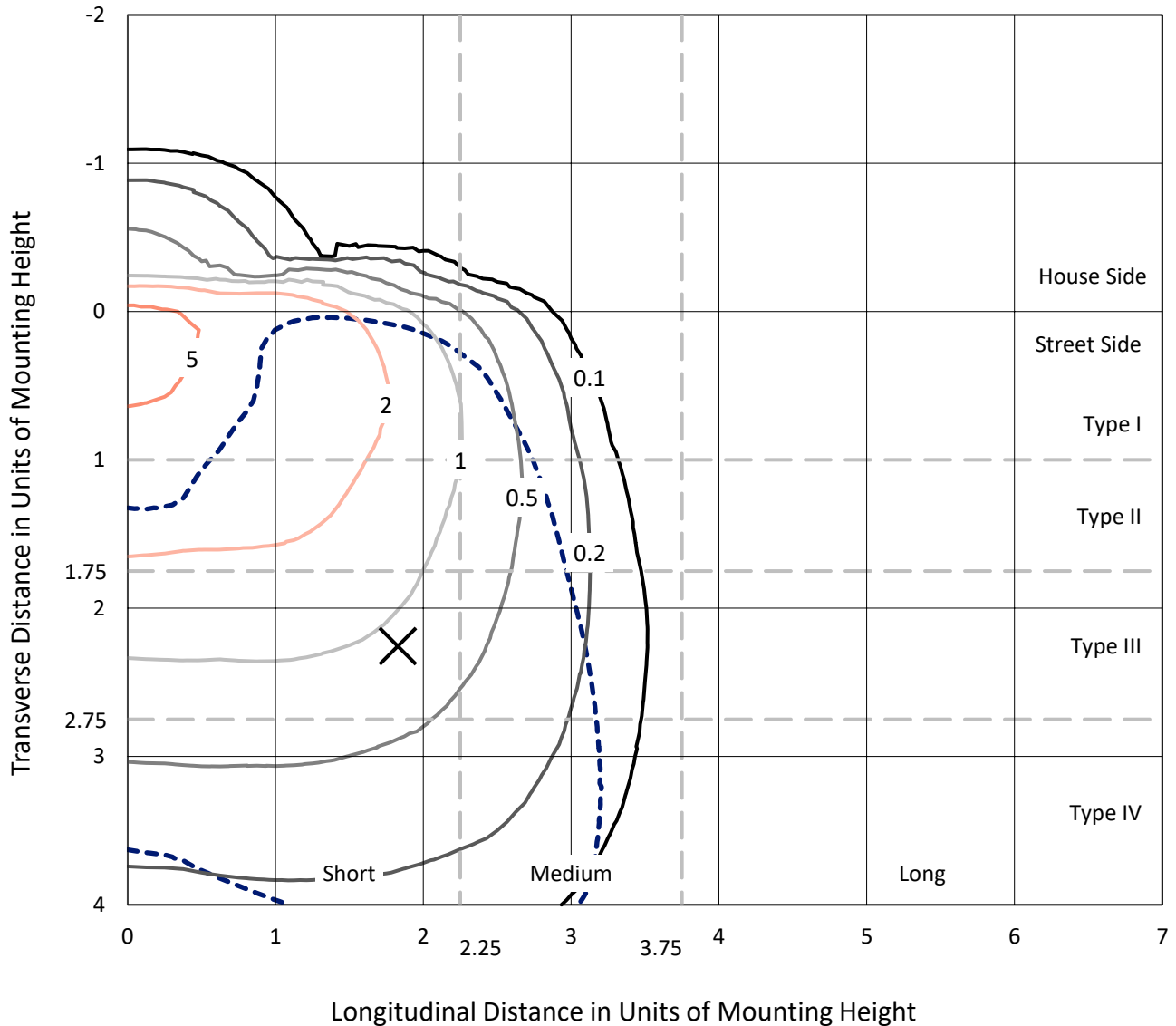
Lumens per Lamp: N/A
Luminaire Lumens: 14182.7 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 184.1
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

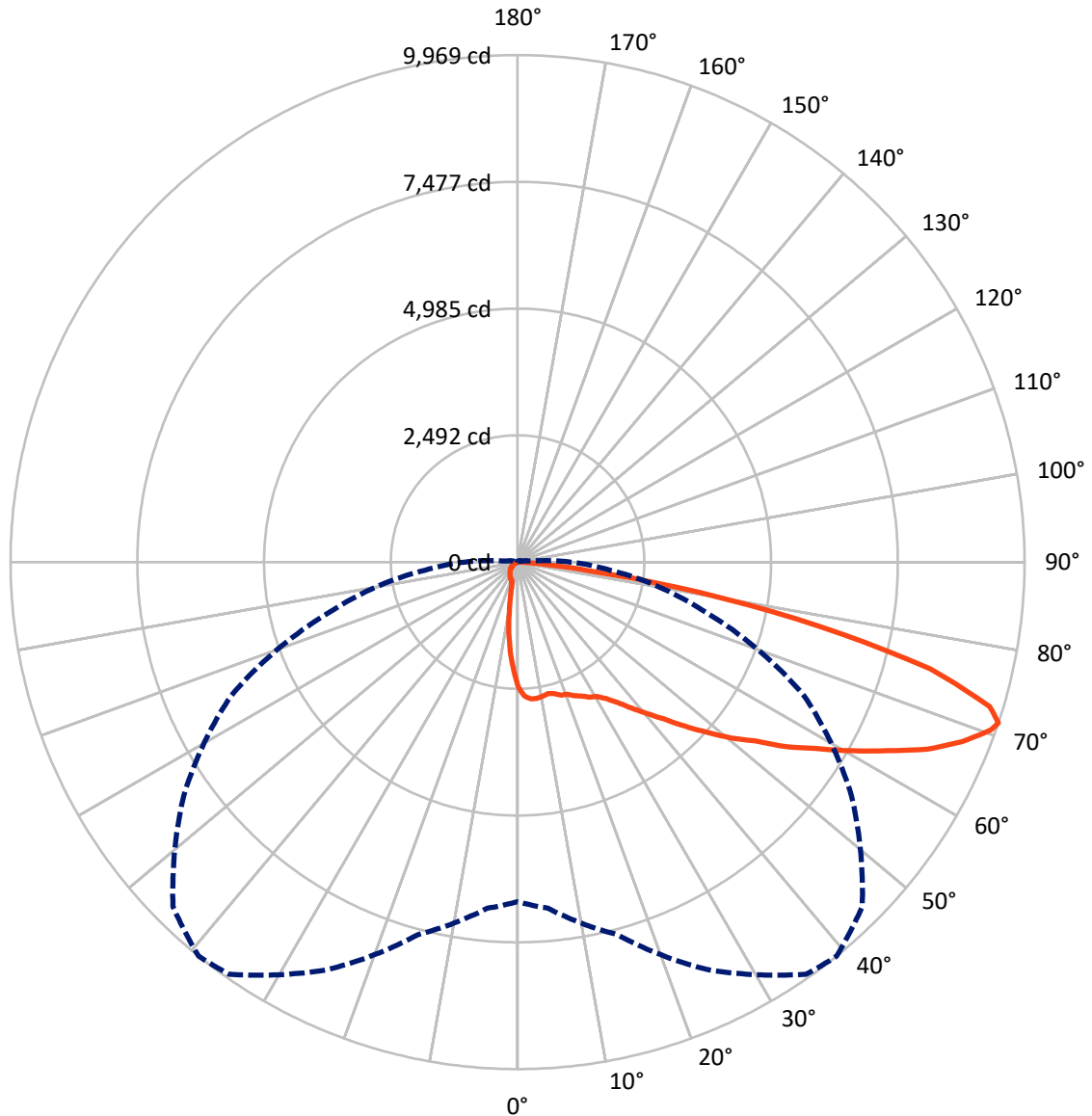
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 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	1067.7	0.0	1067.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	13115.0	0.0	13115.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	14182.7	0.0	14182.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.4	1.5
10°-20°	508.0	3.6
20°-30°	815.5	5.8
30°-40°	1248.4	8.8
40°-50°	2003.8	14.1
50°-60°	2943.3	20.8
60°-70°	3707.0	26.1
70°-80°	2473.9	17.4
80°-90°	276.5	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°	14182.7	100.0
0°-180°	14182.7	100.0



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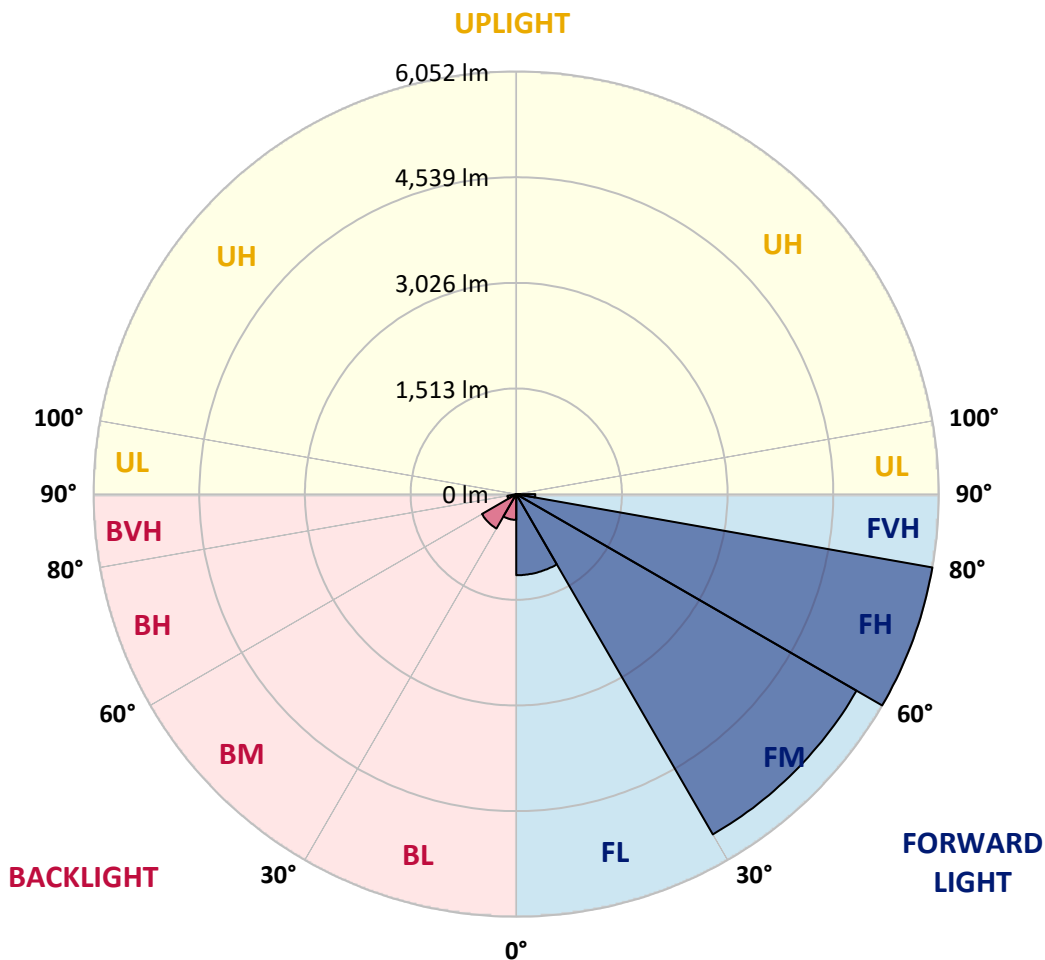
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1161.3	8.2			
FM (30°-60°)	5627.9	39.7			
FH (60°-80°)	6052.4	42.7			G3/7500
FVH (80°-90°)	273.4	1.9			G3/500
BL (0°-30°)	368.6	2.6	B1/500		
BM (30°-60°)	567.5	4.0	B1/1000		
BH (60°-80°)	128.5	0.9	B1/500		G1/500
BVH (80°-90°)	3.0	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°	2468.6	2468.6	2468.6	2468.6	2468.6	2468.6	2468.6	2468.6	2468.6	2468.6	2468.6
2.5°	2660.2	2686.2	2660.2	2649.0	2637.9	2639.7	2610.0	2615.6	2580.2	2533.7	2496.5
5°	2743.9	2779.3	2751.4	2738.3	2736.5	2701.1	2686.2	2650.9	2608.1	2535.6	2490.9
7.5°	2736.5	2729.0	2742.1	2730.9	2706.7	2706.7	2690.0	2639.7	2597.0	2515.1	2438.8
10°	2680.7	2703.0	2691.8	2678.8	2684.4	2686.2	2654.6	2619.3	2606.3	2524.4	2399.8
12.5°	2675.1	2637.9	2678.8	2680.7	2656.5	2654.6	2650.9	2641.6	2600.7	2526.3	2409.1
15°	2656.5	2641.6	2682.5	2684.4	2690.0	2684.4	2690.0	2682.5	2641.6	2598.8	2450.0
17.5°	2671.4	2654.6	2712.3	2740.2	2727.2	2753.2	2743.9	2710.4	2675.1	2624.9	2489.1
20°	2675.1	2699.3	2762.5	2773.7	2814.6	2771.8	2770.0	2734.6	2712.3	2658.3	2513.2
22.5°	2743.9	2755.1	2833.2	2857.4	2859.3	2853.7	2807.2	2766.2	2756.9	2690.0	2518.8
25°	2848.1	2887.2	2922.5	2937.4	2943.0	2916.9	2868.6	2816.5	2794.1	2751.4	2576.5
27.5°	3032.3	3008.1	3039.7	3062.0	2998.8	3008.1	2946.7	2902.0	2870.4	2833.2	2643.5
30°	3196.0	3173.6	3175.5	3171.8	3117.8	3067.6	3050.9	2972.7	2933.7	2948.5	2747.6
32.5°	3342.9	3294.6	3335.5	3316.9	3216.4	3201.5	3188.5	3089.9	3097.4	3166.2	2903.9
35°	3478.7	3462.0	3495.5	3462.0	3395.0	3391.3	3378.3	3292.7	3333.6	3432.2	3171.8
37.5°	3603.4	3608.9	3649.9	3633.1	3638.7	3642.4	3635.0	3543.8	3661.0	3882.4	3484.3
40°	3718.7	3711.3	3811.7	3863.8	3875.0	3915.9	3915.9	3893.6	4074.0	4323.3	3917.8
42.5°	3841.5	3860.1	3990.3	4077.7	4183.8	4219.1	4267.5	4278.7	4557.7	4842.3	4360.5
45°	4042.4	4010.8	4176.3	4382.8	4475.8	4600.5	4674.9	4738.1	5074.9	5465.5	4803.3
47.5°	4297.3	4234.0	4379.1	4678.6	4894.4	4996.7	5130.7	5214.4	5543.6	5947.3	5221.8
50°	4580.0	4514.9	4585.6	4998.6	5249.7	5435.7	5606.9	5712.9	6111.0	6486.8	5526.9
52.5°	4900.0	4840.5	4851.6	5331.6	5701.8	5837.6	6062.7	6220.8	6617.0	6812.4	5634.8
55°	5240.4	5225.5	5190.2	5657.1	6098.0	6403.1	6538.9	6728.6	7136.0	6989.1	5752.0
57.5°	5582.7	5536.2	5586.4	6088.7	6734.2	6916.5	7104.4	7217.9	7424.4	7143.5	5707.3
60°	5904.5	5908.3	5979.0	6557.5	7275.6	7534.1	7703.4	7634.6	7720.2	7210.5	5605.0
62.5°	6176.1	6168.7	6347.3	7084.0	7991.8	8166.6	8293.1	7986.2	7857.8	7275.6	5426.4
65°	6419.8	6503.6	6784.5	7710.9	8665.2	8866.1	8789.8	8319.2	7991.8	7084.0	4924.2
67.5°	6604.0	6728.6	7216.0	8300.6	9282.8	9424.2	9318.2	8572.2	7833.7	6332.4	4010.8
70°	6711.9	6838.4	7524.8	8791.7	9775.8	9878.1	9628.8	8376.9	6911.0	4585.6	2502.1
71°	6678.4	6832.8	7584.4	8843.8	9893.0	9969.3	9582.3	8016.0	6215.2	3839.6	1824.9
72.5°	6375.2	6520.3	7337.0	8806.6	9751.6	9705.1	9219.6	7149.1	4892.5	2448.1	943.2
75°	4684.2	4840.5	6297.1	7617.9	8704.3	8384.3	7461.6	5017.2	2552.3	749.7	275.3
77.5°	2332.8	2358.8	3908.5	5530.6	6384.5	6066.4	5000.4	2797.9	954.3	221.4	137.7
80°	1075.2	1082.7	1465.9	2864.8	3860.1	3633.1	2801.6	1380.3	431.6	117.2	107.9
82.5°	733.0	744.1	883.6	1186.9	1676.1	1413.8	1134.8	883.6	247.4	70.7	106.0
85°	133.9	122.8	494.8	628.8	647.4	439.0	392.5	764.6	93.0	40.9	93.0
87.5°	0.0	1.9	68.8	256.7	230.7	102.3	133.9	186.0	9.3	13.0	16.7
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°	2468.6	2468.6	2468.6	2468.6	2468.6	2468.6	2468.6	2468.6	2468.6	2468.6	2468.6
2.5°	2464.9	2444.4	2375.6	2299.3	2230.5	2176.5	2107.7	2076.1	2025.8	1997.9	1996.1
5°	2429.5	2373.7	2254.7	2126.3	1983.1	1864.0	1731.9	1657.5	1571.9	1545.9	1540.3
7.5°	2370.0	2290.0	2115.1	1934.7	1715.2	1505.0	1343.1	1170.1	1064.1	1019.4	1002.7
10°	2332.8	2236.1	1997.9	1728.2	1421.3	1125.5	898.5	714.3	617.6	571.1	559.9
12.5°	2332.8	2228.6	1903.1	1531.0	1123.6	770.2	556.2	450.2	418.6	407.4	407.4
15°	2327.2	2213.7	1811.9	1328.2	831.5	517.2	414.8	392.5	388.8	386.9	385.1
17.5°	2355.1	2187.7	1718.9	1110.6	587.8	407.4	381.4	377.6	373.9	373.9	370.2
20°	2375.6	2172.8	1607.3	879.9	439.0	377.6	366.5	360.9	359.0	357.2	360.9
22.5°	2358.8	2150.5	1469.6	658.5	383.2	359.0	351.6	346.0	342.3	342.3	344.2
25°	2390.5	2130.0	1332.0	496.7	359.0	342.3	334.9	331.1	329.3	327.4	323.7
27.5°	2433.3	2139.3	1168.3	400.0	338.6	325.5	318.1	314.4	312.5	308.8	312.5
30°	2485.3	2137.5	987.8	349.7	320.0	306.9	299.5	297.6	293.9	292.1	293.9
32.5°	2574.6	2185.8	801.8	323.7	299.5	288.3	280.9	279.0	277.2	275.3	273.5
35°	2766.2	2245.4	626.9	303.2	280.9	267.9	262.3	258.6	256.7	254.9	253.0
37.5°	3002.5	2377.4	478.1	284.6	262.3	249.3	243.7	241.8	234.4	232.5	230.7
40°	3298.3	2518.8	368.3	264.2	245.6	232.5	227.0	221.4	212.1	208.4	204.6
42.5°	3666.6	2656.5	303.2	245.6	227.0	217.7	208.4	199.1	191.6	184.2	180.4
45°	4035.0	2816.5	266.0	228.8	212.1	200.9	193.5	180.4	167.4	156.3	154.4
47.5°	4341.9	2874.1	243.7	210.2	197.2	187.9	176.7	160.0	141.4	130.2	128.4
50°	4570.7	2840.7	221.4	191.6	180.4	171.1	156.3	135.8	117.2	106.0	102.3
52.5°	4615.4	2693.7	200.9	176.7	163.7	152.5	135.8	113.5	93.0	81.9	80.0
55°	4583.7	2450.0	184.2	163.7	148.8	132.1	113.5	91.2	72.6	61.4	59.5
57.5°	4518.6	2161.6	165.6	147.0	130.2	113.5	93.0	74.4	53.9	42.8	42.8
60°	4297.3	1769.1	147.0	128.4	111.6	96.7	76.3	53.9	37.2	27.9	26.0
62.5°	3988.4	1359.9	128.4	109.8	96.7	80.0	59.5	39.1	22.3	14.9	14.9
65°	3424.8	952.5	107.9	91.2	80.0	65.1	44.6	24.2	13.0	5.6	5.6
67.5°	2602.5	589.7	89.3	76.3	68.8	52.1	31.6	14.9	5.6	1.9	0.0
70°	1493.8	306.9	70.7	61.4	53.9	39.1	22.3	7.4	3.7	0.0	0.0
71°	1043.6	227.0	63.2	53.9	48.4	35.3	18.6	5.6	1.9	0.0	0.0
72.5°	522.7	150.7	53.9	44.6	39.1	27.9	14.9	5.6	1.9	0.0	0.0
75°	186.0	96.7	37.2	29.8	27.9	20.5	9.3	3.7	1.9	0.0	0.0
77.5°	128.4	78.1	26.0	18.6	18.6	13.0	5.6	1.9	1.9	0.0	0.0
80°	117.2	42.8	16.7	11.2	9.3	7.4	3.7	1.9	0.0	0.0	0.0
82.5°	117.2	31.6	9.3	7.4	5.6	3.7	1.9	0.0	0.0	0.0	0.0
85°	81.9	16.7	5.6	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	13.0	5.6	3.7	1.9	1.9	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)