

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: P484690

Luminaire Tested: **IFLD-M-SA4B-727-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484690
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-727-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

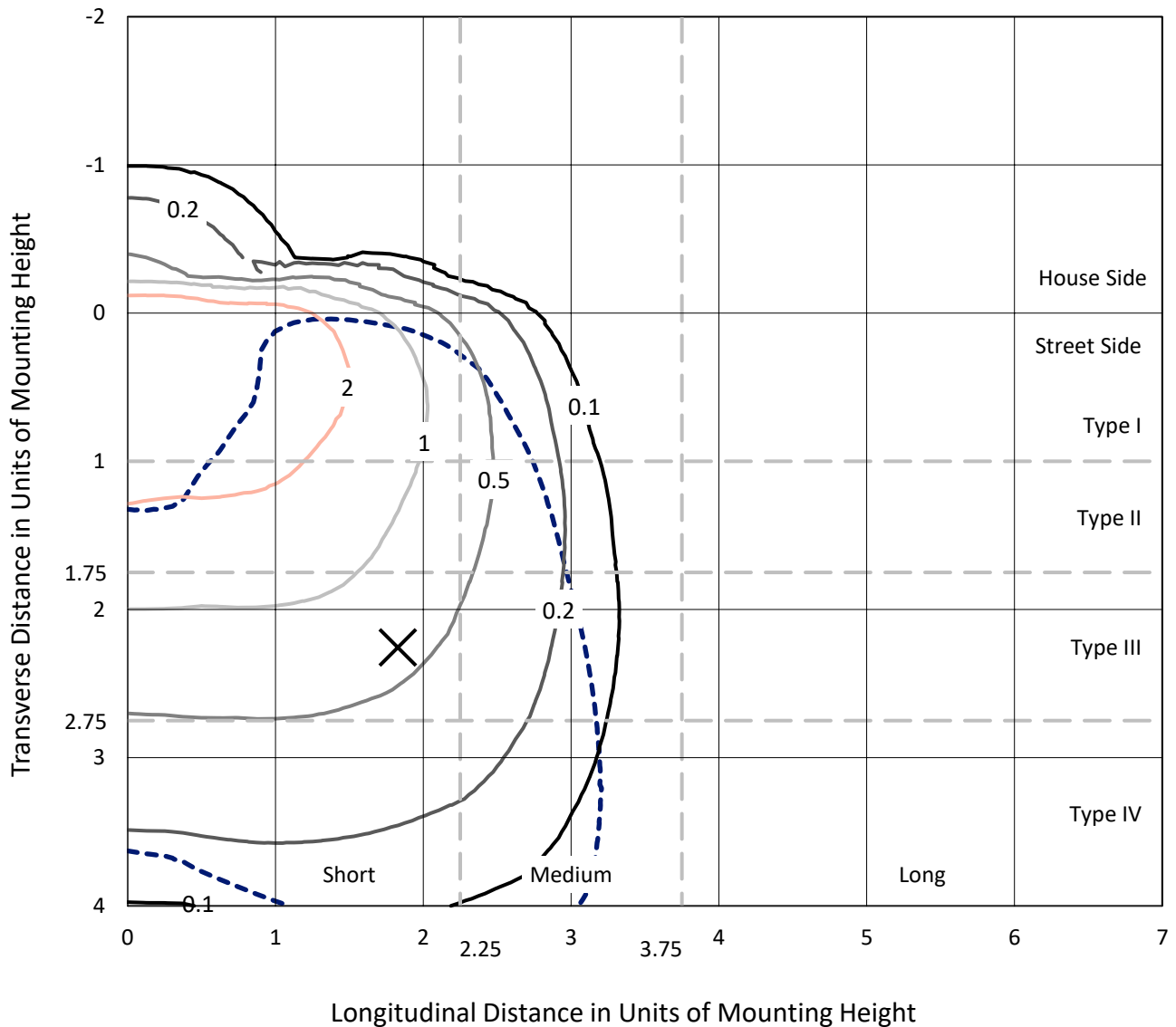
Lumens per Lamp: N/A
Luminaire Lumens: 15779.4 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 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

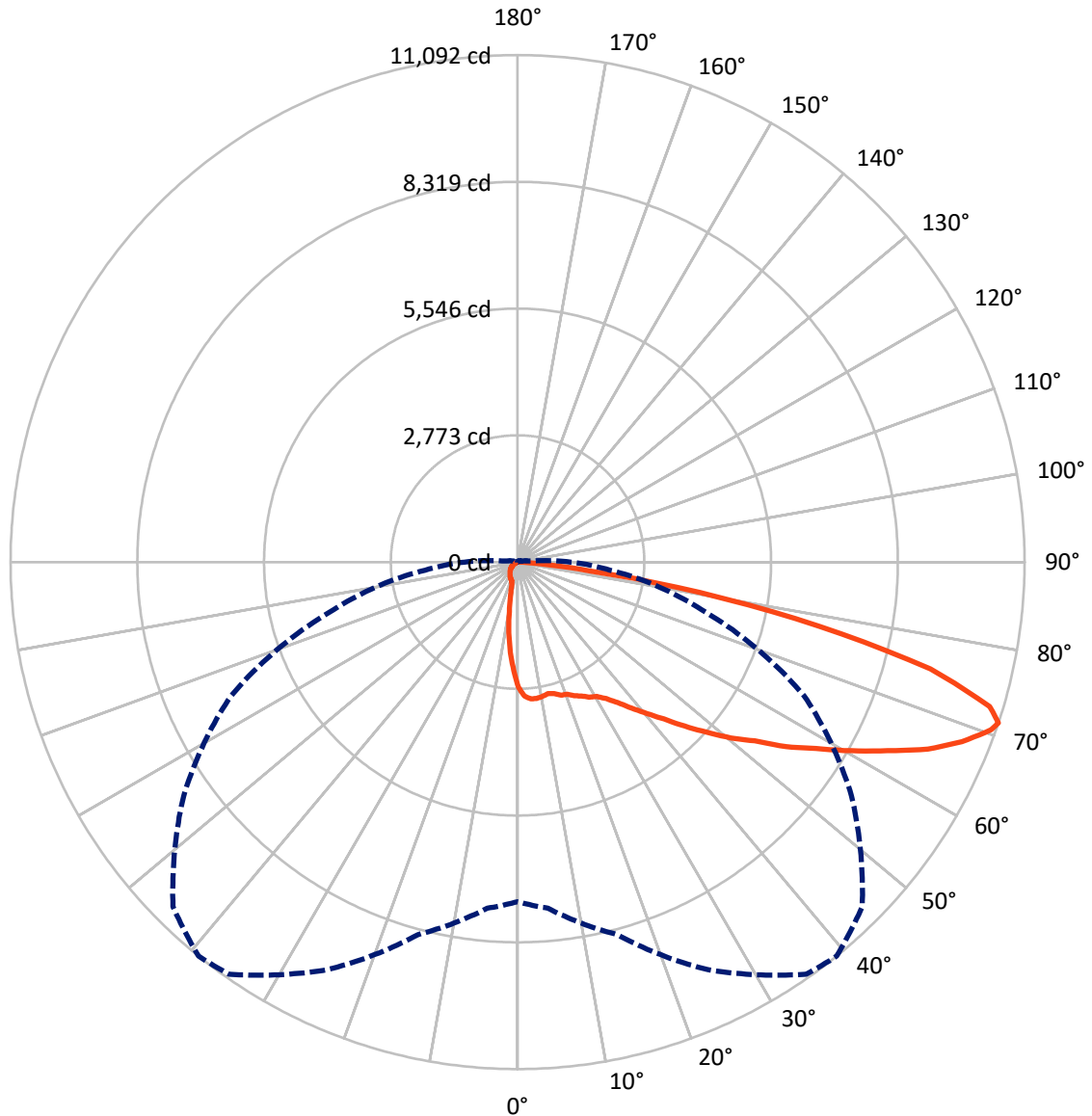
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	1187.9	0.0	1187.9
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	14591.4	0.0	14591.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	15779.4	0.0	15779.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.6	1.5
10°-20°	565.2	3.6
20°-30°	907.3	5.8
30°-40°	1388.9	8.8
40°-50°	2229.4	14.1
50°-60°	3274.6	20.8
60°-70°	4124.3	26.1
70°-80°	2752.4	17.4
80°-90°	307.6	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°	15779.4	100.0
0°-180°	15779.4	100.0



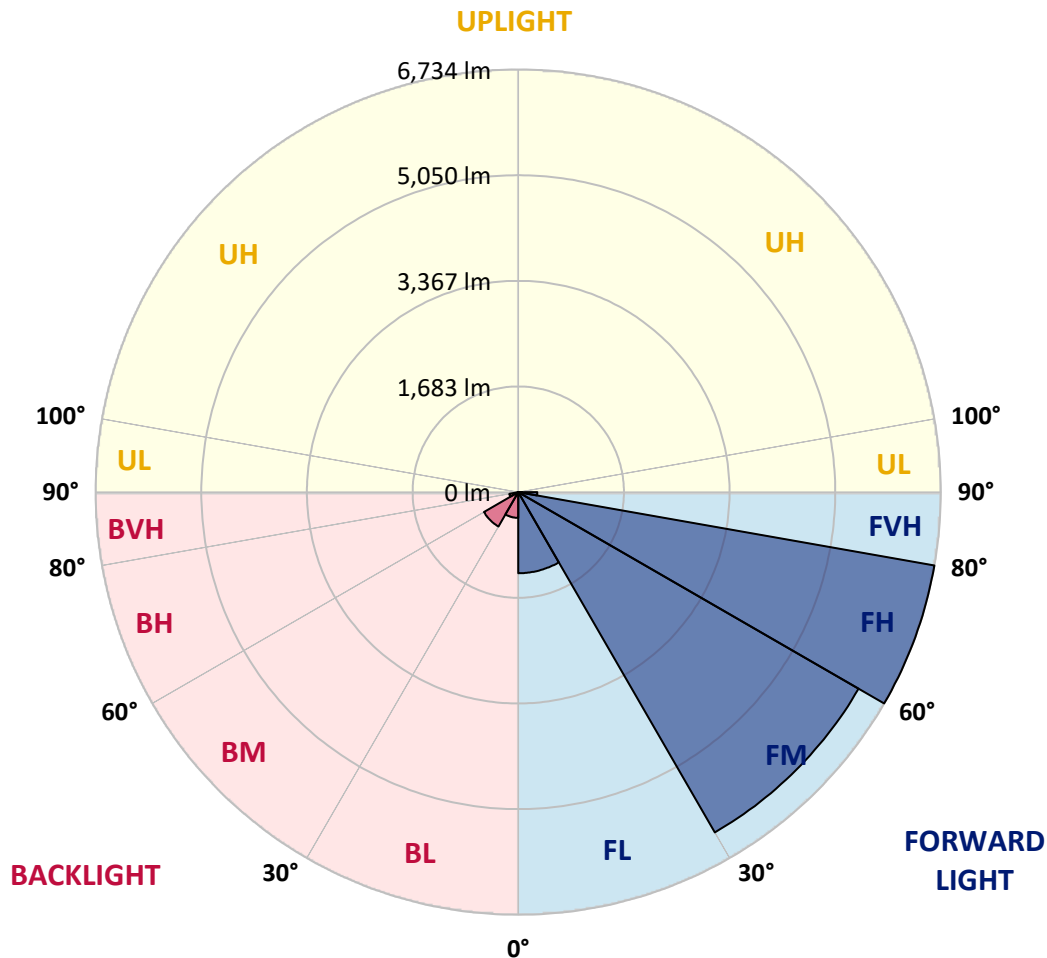
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1292.0	8.2			
FM (30°-60°)	6261.5	39.7			
FH (60°-80°)	6733.7	42.7			G3/7500
FVH (80°-90°)	304.2	1.9			G3/500
BL (0°-30°)	410.1	2.6	B1/500		
BM (30°-60°)	631.4	4.0	B1/1000		
BH (60°-80°)	143.0	0.9	B1/500		G1/500
BVH (80°-90°)	3.4	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°	2746.5	2746.5	2746.5	2746.5	2746.5	2746.5	2746.5	2746.5	2746.5	2746.5	2746.5
2.5°	2959.7	2988.7	2959.7	2947.3	2934.8	2936.9	2903.8	2910.0	2870.7	2818.9	2777.5
5°	3052.8	3092.1	3061.1	3046.6	3044.5	3005.2	2988.7	2949.3	2901.7	2821.0	2771.3
7.5°	3044.5	3036.3	3050.7	3038.3	3011.4	3011.4	2992.8	2936.9	2889.3	2798.2	2713.4
10°	2982.4	3007.3	2994.9	2980.4	2986.6	2988.7	2953.5	2914.1	2899.7	2808.6	2669.9
12.5°	2976.2	2934.8	2980.4	2982.4	2955.5	2953.5	2949.3	2939.0	2893.4	2810.7	2680.3
15°	2955.5	2939.0	2984.5	2986.6	2992.8	2986.6	2992.8	2984.5	2939.0	2891.4	2725.8
17.5°	2972.1	2953.5	3017.6	3048.7	3034.2	3063.2	3052.8	3015.6	2976.2	2920.4	2769.3
20°	2976.2	3003.1	3073.5	3085.9	3131.5	3083.9	3081.8	3042.5	3017.6	2957.6	2796.2
22.5°	3052.8	3065.2	3152.2	3179.1	3181.1	3174.9	3123.2	3077.7	3067.3	2992.8	2802.4
25°	3168.7	3212.2	3251.5	3268.1	3274.3	3245.3	3191.5	3133.5	3108.7	3061.1	2866.5
27.5°	3373.6	3346.7	3381.9	3406.7	3336.4	3346.7	3278.4	3228.7	3193.6	3152.2	2941.1
30°	3555.8	3530.9	3533.0	3528.8	3468.8	3412.9	3394.3	3307.4	3263.9	3280.5	3057.0
32.5°	3719.3	3665.4	3711.0	3690.3	3578.5	3562.0	3547.5	3437.8	3446.1	3522.6	3230.8
35°	3870.3	3851.7	3889.0	3851.7	3777.2	3773.1	3758.6	3663.4	3708.9	3818.6	3528.8
37.5°	4009.0	4015.2	4060.8	4042.1	4048.3	4052.5	4044.2	3942.8	4073.2	4319.5	3876.6
40°	4137.3	4129.1	4240.8	4298.8	4311.2	4356.7	4356.7	4331.9	4532.7	4810.0	4358.8
42.5°	4273.9	4294.6	4439.5	4536.8	4654.8	4694.1	4747.9	4760.3	5070.8	5387.4	4851.4
45°	4497.5	4462.3	4646.5	4876.2	4979.7	5118.4	5201.2	5271.5	5646.2	6080.8	5344.0
47.5°	4781.0	4710.6	4872.1	5205.3	5445.4	5559.2	5708.2	5801.4	6167.7	6616.8	5809.7
50°	5095.6	5023.2	5101.8	5561.3	5840.7	6047.7	6238.1	6356.1	6799.0	7217.1	6149.1
52.5°	5451.6	5385.4	5397.8	5931.8	6343.6	6494.7	6745.2	6921.1	7361.9	7579.3	6269.1
55°	5830.4	5813.8	5774.5	6294.0	6784.5	7123.9	7275.0	7486.1	7939.4	7775.9	6399.5
57.5°	6211.2	6159.4	6215.3	6774.1	7492.3	7695.2	7904.2	8030.5	8260.2	7947.7	6349.9
60°	6569.2	6573.4	6652.0	7295.7	8094.6	8382.3	8570.6	8494.1	8589.3	8022.2	6236.0
62.5°	6871.4	6863.1	7061.8	7881.4	8891.5	9086.0	9226.7	8885.2	8742.4	8094.6	6037.3
65°	7142.6	7235.7	7548.2	8578.9	9640.7	9864.2	9779.4	9255.7	8891.5	7881.4	5478.5
67.5°	7347.5	7486.1	8028.4	9235.0	10327.8	10485.1	10367.2	9537.2	8715.5	7045.3	4462.3
70°	7467.5	7608.2	8372.0	9781.4	10876.3	10990.1	10712.8	9319.9	7689.0	5101.8	2783.8
71°	7430.2	7602.0	8438.2	9839.4	11006.7	11091.5	10661.1	8918.4	6914.9	4271.9	2030.4
72.5°	7092.9	7254.3	8162.9	9798.0	10849.4	10797.7	10257.5	7953.9	5443.3	2723.7	1049.3
75°	5211.5	5385.4	7006.0	8475.4	9684.2	9328.2	8301.6	5582.0	2839.6	834.1	306.3
77.5°	2595.4	2624.4	4348.5	6153.2	7103.2	6749.3	5563.4	3112.8	1061.8	246.3	153.2
80°	1196.3	1204.6	1630.9	3187.3	4294.6	4042.1	3117.0	1535.7	480.2	130.4	120.0
82.5°	815.5	827.9	983.1	1320.5	1864.8	1573.0	1262.5	983.1	275.3	78.6	118.0
85°	149.0	136.6	550.5	699.6	720.3	488.5	436.7	850.6	103.5	45.5	103.5
87.5°	0.0	2.1	76.6	285.6	256.6	113.8	149.0	207.0	10.3	14.5	18.6
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°	2746.5	2746.5	2746.5	2746.5	2746.5	2746.5	2746.5	2746.5	2746.5	2746.5	2746.5
2.5°	2742.4	2719.6	2643.0	2558.2	2481.6	2421.6	2345.0	2309.8	2253.9	2222.9	2220.8
5°	2703.0	2640.9	2508.5	2365.7	2206.3	2073.8	1926.9	1844.1	1748.9	1719.9	1713.7
7.5°	2636.8	2547.8	2353.3	2152.5	1908.3	1674.4	1494.3	1301.8	1183.9	1134.2	1115.6
10°	2595.4	2487.8	2222.9	1922.8	1581.3	1252.2	999.7	794.8	687.1	635.4	623.0
12.5°	2595.4	2479.5	2117.3	1703.4	1250.1	856.9	618.8	500.9	465.7	453.3	453.3
15°	2589.2	2462.9	2015.9	1477.8	925.2	575.4	461.5	436.7	432.6	430.5	428.4
17.5°	2620.2	2434.0	1912.4	1235.6	654.0	453.3	424.3	420.2	416.0	416.0	411.9
20°	2643.0	2417.4	1788.2	979.0	488.5	420.2	407.7	401.5	399.5	397.4	401.5
22.5°	2624.4	2392.6	1635.1	732.7	426.4	399.5	391.2	385.0	380.8	380.8	382.9
25°	2659.6	2369.8	1481.9	552.6	399.5	380.8	372.5	368.4	366.3	364.3	360.1
27.5°	2707.2	2380.2	1299.8	445.0	376.7	362.2	353.9	349.8	347.7	343.6	347.7
30°	2765.1	2378.1	1099.0	389.1	356.0	341.5	333.2	331.2	327.0	324.9	327.0
32.5°	2864.5	2431.9	892.0	360.1	333.2	320.8	312.5	310.5	308.4	306.3	304.2
35°	3077.7	2498.1	697.5	337.4	312.5	298.0	291.8	287.7	285.6	283.5	281.5
37.5°	3340.5	2645.1	531.9	316.7	291.8	277.3	271.1	269.1	260.8	258.7	256.6
40°	3669.6	2802.4	409.8	293.9	273.2	258.7	252.5	246.3	235.9	231.8	227.7
42.5°	4079.4	2955.5	337.4	273.2	252.5	242.2	231.8	221.5	213.2	204.9	200.8
45°	4489.2	3133.5	296.0	254.6	235.9	223.5	215.2	200.8	186.3	173.9	171.8
47.5°	4830.7	3197.7	271.1	233.9	219.4	209.0	196.6	178.0	157.3	144.9	142.8
50°	5085.3	3160.4	246.3	213.2	200.8	190.4	173.9	151.1	130.4	118.0	113.8
52.5°	5134.9	2996.9	223.5	196.6	182.1	169.7	151.1	126.3	103.5	91.1	89.0
55°	5099.8	2725.8	204.9	182.1	165.6	146.9	126.3	101.4	80.7	68.3	66.2
57.5°	5027.3	2405.0	184.2	163.5	144.9	126.3	103.5	82.8	60.0	47.6	47.6
60°	4781.0	1968.3	163.5	142.8	124.2	107.6	84.9	60.0	41.4	31.0	29.0
62.5°	4437.4	1513.0	142.8	122.1	107.6	89.0	66.2	43.5	24.8	16.6	16.6
65°	3810.3	1059.7	120.0	101.4	89.0	72.4	49.7	26.9	14.5	6.2	6.2
67.5°	2895.5	656.1	99.3	84.9	76.6	58.0	35.2	16.6	6.2	2.1	0.0
70°	1662.0	341.5	78.6	68.3	60.0	43.5	24.8	8.3	4.1	0.0	0.0
71°	1161.1	252.5	70.4	60.0	53.8	39.3	20.7	6.2	2.1	0.0	0.0
72.5°	581.6	167.6	60.0	49.7	43.5	31.0	16.6	6.2	2.1	0.0	0.0
75°	207.0	107.6	41.4	33.1	31.0	22.8	10.3	4.1	2.1	0.0	0.0
77.5°	142.8	86.9	29.0	20.7	20.7	14.5	6.2	2.1	2.1	0.0	0.0
80°	130.4	47.6	18.6	12.4	10.3	8.3	4.1	2.1	0.0	0.0	0.0
82.5°	130.4	35.2	10.3	8.3	6.2	4.1	2.1	0.0	0.0	0.0	0.0
85°	91.1	18.6	6.2	6.2	4.1	2.1	0.0	0.0	0.0	0.0	0.0
87.5°	14.5	6.2	4.1	2.1	2.1	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)