

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: P484945

Luminaire Tested: **IFLD-S-SA3D-830-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484945
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-830-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

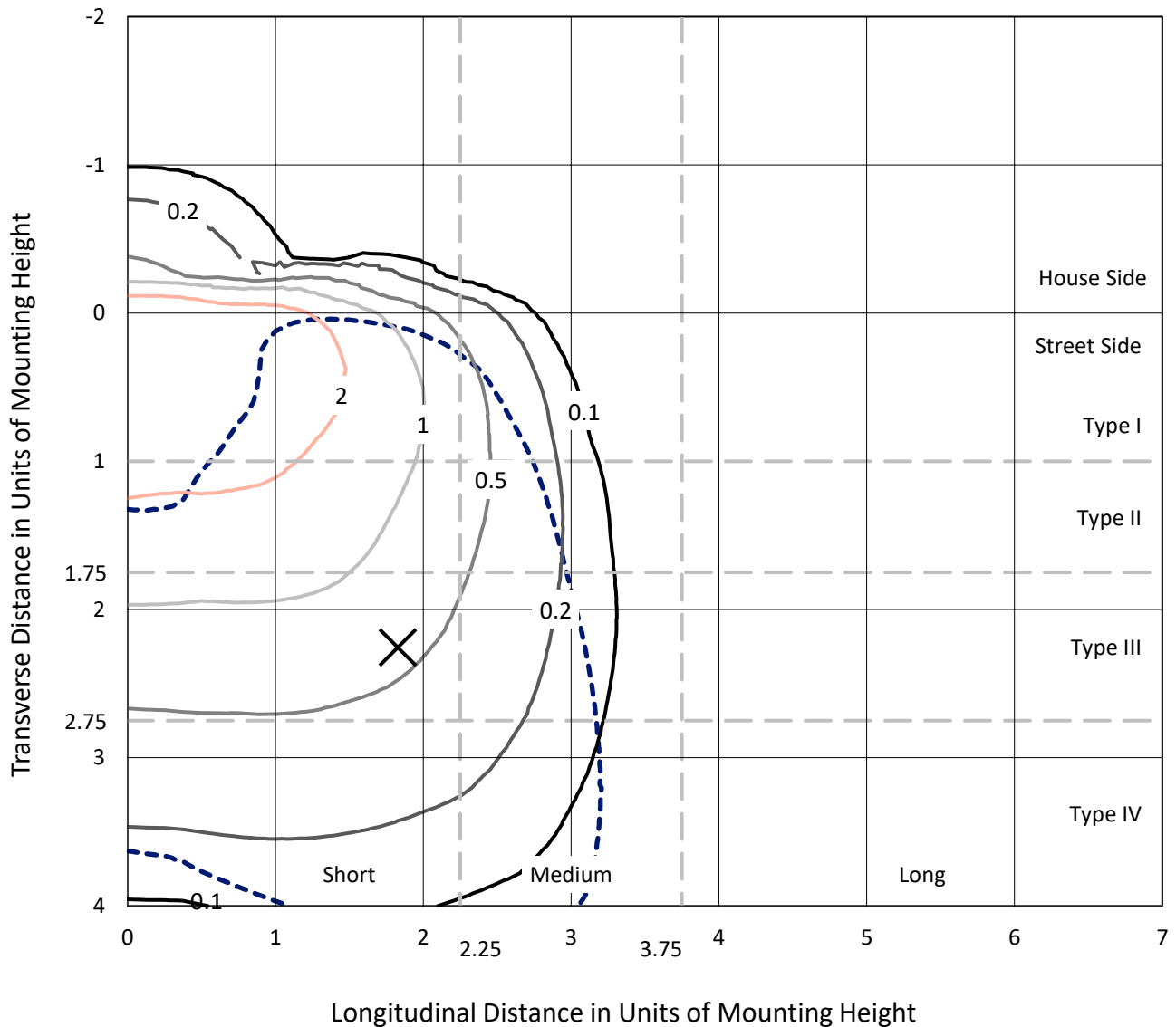
Lumens per Lamp: N/A
Luminaire Lumens: 15299.5 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

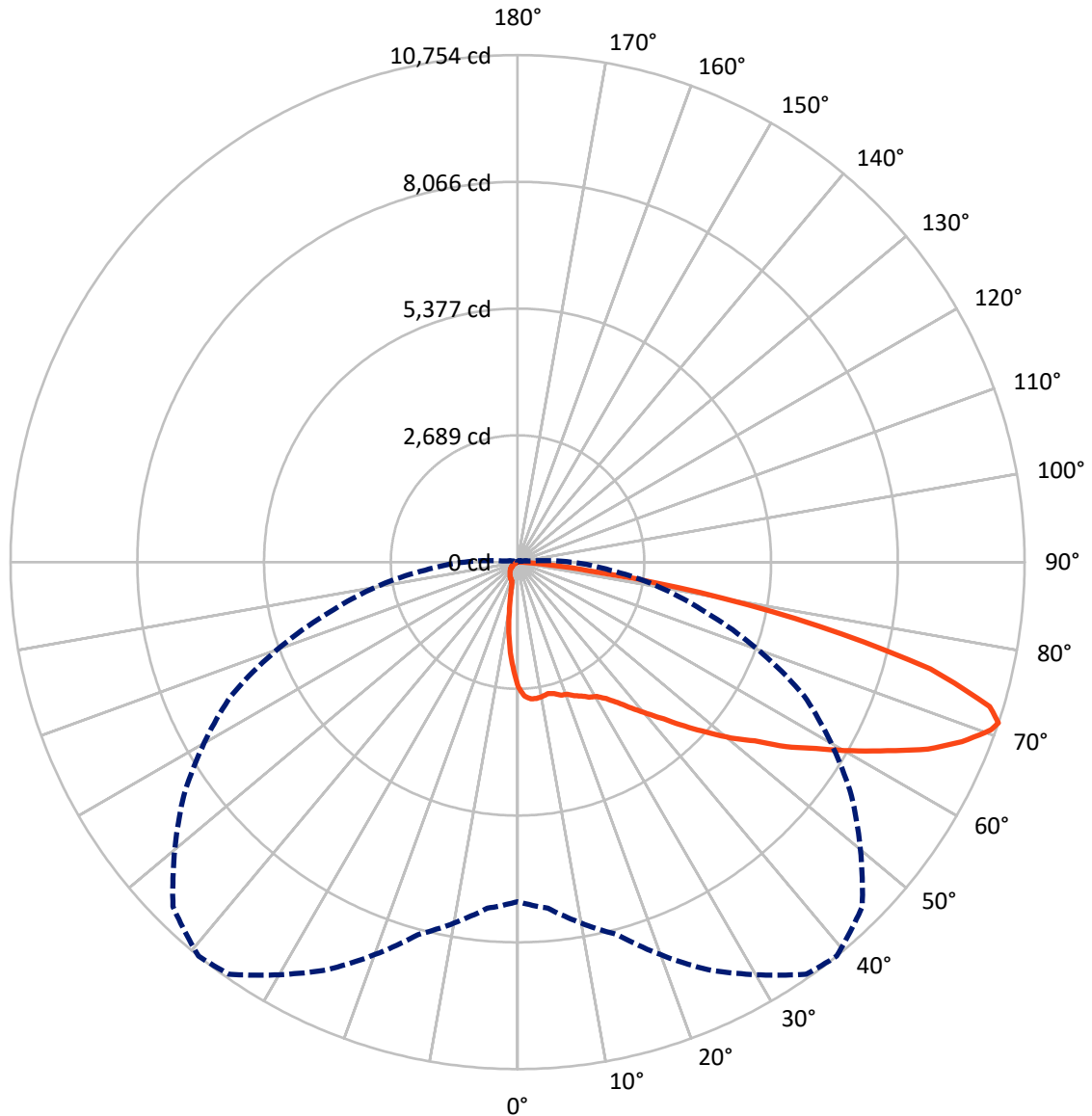
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	1151.8	0.0	1151.8
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	14147.7	0.0	14147.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	15299.5	0.0	15299.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.6	1.5
10°-20°	548.0	3.6
20°-30°	879.7	5.7
30°-40°	1346.6	8.8
40°-50°	2161.6	14.1
50°-60°	3175.0	20.8
60°-70°	3998.9	26.1
70°-80°	2668.7	17.4
80°-90°	298.2	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°	15299.5	100.0
0°-180°	15299.5	100.0



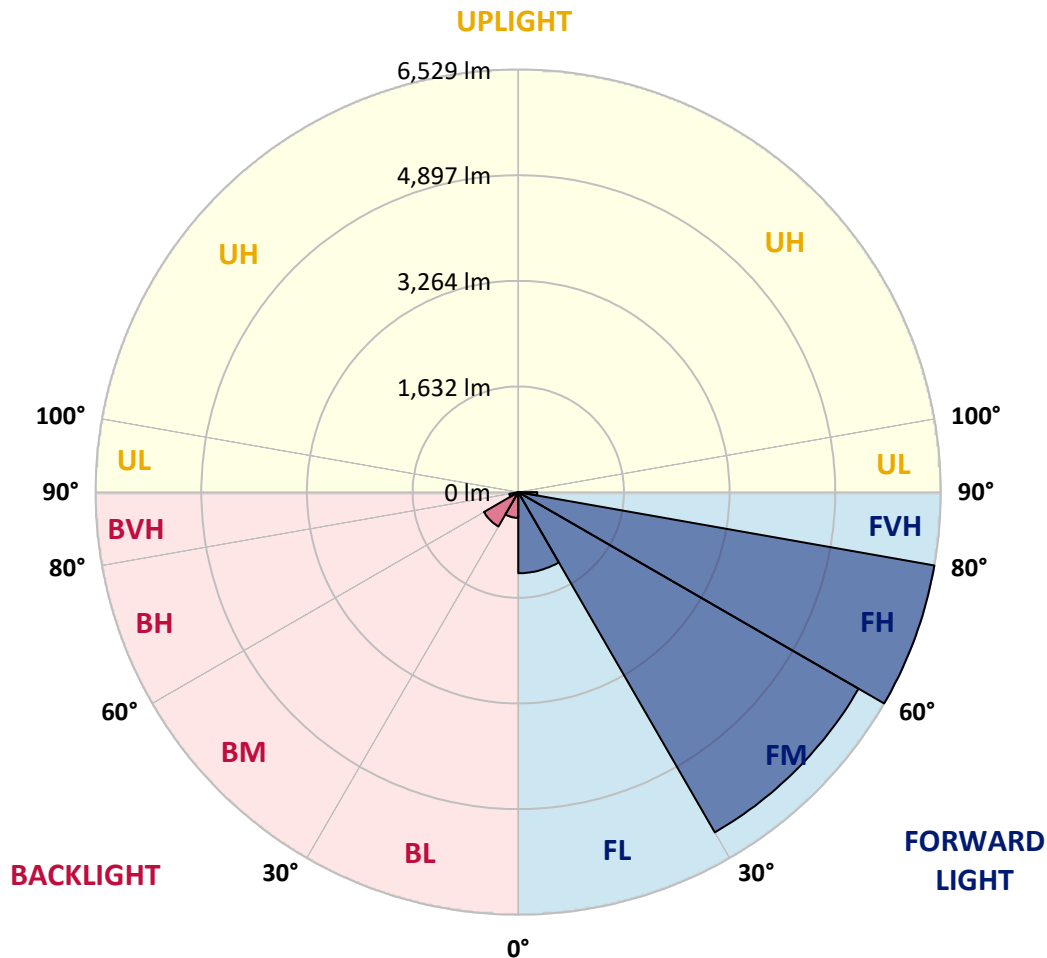
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1252.7	8.2			
FM (30°-60°)	6071.1	39.7			
FH (60°-80°)	6529.0	42.7			G3/7500
FVH (80°-90°)	295.0	1.9			G3/500
BL (0°-30°)	397.7	2.6	B1/500		
BM (30°-60°)	612.2	4.0	B1/1000		
BH (60°-80°)	138.6	0.9	B1/500		G1/500
BVH (80°-90°)	3.3	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°	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0
2.5°	2869.7	2897.8	2869.7	2857.6	2845.6	2847.6	2815.5	2821.5	2783.4	2733.2	2693.1
5°	2960.0	2998.1	2968.0	2954.0	2951.9	2913.8	2897.8	2859.6	2813.5	2735.2	2687.1
7.5°	2951.9	2943.9	2958.0	2945.9	2919.8	2919.8	2901.8	2847.6	2801.4	2713.1	2630.9
10°	2891.7	2915.8	2903.8	2889.7	2895.8	2897.8	2863.6	2825.5	2811.5	2723.2	2588.7
12.5°	2885.7	2845.6	2889.7	2891.7	2865.7	2863.6	2859.6	2849.6	2805.5	2725.2	2598.8
15°	2865.7	2849.6	2893.8	2895.8	2901.8	2895.8	2901.8	2893.8	2849.6	2803.4	2642.9
17.5°	2881.7	2863.6	2925.9	2956.0	2941.9	2970.0	2960.0	2923.9	2885.7	2831.5	2685.0
20°	2885.7	2911.8	2980.0	2992.1	3036.2	2990.1	2988.1	2949.9	2925.9	2867.7	2711.1
22.5°	2960.0	2972.0	3056.3	3082.4	3084.4	3078.4	3028.2	2984.1	2974.0	2901.8	2717.2
25°	3072.4	3114.5	3152.6	3168.7	3174.7	3146.6	3094.4	3038.2	3014.2	2968.0	2779.4
27.5°	3271.0	3244.9	3279.0	3303.1	3234.9	3244.9	3178.7	3130.5	3096.4	3056.3	2851.6
30°	3447.6	3423.5	3425.5	3421.5	3363.3	3309.2	3291.1	3206.8	3164.7	3180.7	2964.0
32.5°	3606.2	3554.0	3598.1	3578.1	3469.7	3453.6	3439.6	3333.2	3341.3	3415.5	3132.6
35°	3752.6	3734.6	3770.7	3734.6	3662.3	3658.3	3644.3	3552.0	3596.1	3702.5	3421.5
37.5°	3887.1	3893.1	3937.3	3919.2	3925.2	3929.2	3921.2	3822.9	3949.3	4188.1	3758.7
40°	4011.5	4003.5	4111.9	4168.0	4180.1	4224.2	4224.2	4200.2	4394.8	4663.7	4226.2
42.5°	4144.0	4164.0	4304.5	4398.8	4513.2	4551.3	4603.5	4615.6	4916.6	5223.6	4703.9
45°	4360.7	4326.6	4505.2	4727.9	4828.3	4962.7	5043.0	5111.2	5474.4	5895.9	5181.5
47.5°	4635.6	4567.4	4723.9	5047.0	5279.8	5390.2	5534.7	5625.0	5980.2	6415.6	5633.0
50°	4940.6	4870.4	4946.7	5392.2	5663.1	5863.8	6048.4	6162.8	6592.2	6997.6	5962.1
52.5°	5285.8	5221.6	5233.6	5751.4	6150.7	6297.2	6540.0	6710.6	7138.1	7348.8	6078.5
55°	5653.0	5637.0	5598.9	6102.6	6578.2	6907.3	7053.8	7258.5	7697.9	7539.4	6204.9
57.5°	6022.3	5972.1	6026.3	6568.1	7264.5	7461.1	7663.8	7786.2	8009.0	7706.0	6156.7
60°	6369.5	6373.5	6449.7	7073.8	7848.4	8127.4	8310.0	8235.8	8328.1	7778.2	6046.4
62.5°	6662.5	6654.4	6847.1	7641.8	8621.1	8809.7	8946.1	8615.0	8476.6	7848.4	5853.7
65°	6925.3	7015.6	7318.7	8318.0	9347.5	9564.2	9482.0	8974.2	8621.1	7641.8	5311.9
67.5°	7124.0	7258.5	7784.2	8954.2	10013.7	10166.3	10051.9	9247.2	8450.5	6831.0	4326.6
70°	7240.4	7376.9	8117.4	9484.0	10545.5	10655.9	10387.0	9036.5	7455.1	4946.7	2699.1
71°	7204.3	7370.8	8181.6	9540.1	10672.0	10754.2	10336.8	8647.1	6704.6	4142.0	1968.6
72.5°	6877.2	7033.7	7914.7	9500.0	10519.4	10469.3	9945.5	7712.0	5277.8	2640.9	1017.4
75°	5053.0	5221.6	6792.9	8217.7	9389.6	9044.5	8049.1	5412.2	2753.3	808.7	297.0
77.5°	2516.5	2544.6	4216.2	5966.1	6887.2	6544.1	5394.2	3018.2	1029.5	238.8	148.5
80°	1159.9	1167.9	1581.3	3090.4	4164.0	3919.2	3022.2	1489.0	465.6	126.4	116.4
82.5°	790.7	802.7	953.2	1280.3	1808.1	1525.1	1224.1	953.2	266.9	76.3	114.4
85°	144.5	132.4	533.8	678.3	698.4	473.6	423.4	824.8	100.3	44.1	100.3
87.5°	0.0	2.0	74.3	276.9	248.8	110.4	144.5	200.7	10.0	14.0	18.1
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°	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0
2.5°	2659.0	2636.9	2562.6	2480.4	2406.1	2347.9	2273.7	2239.5	2185.4	2155.3	2153.3
5°	2620.8	2560.6	2432.2	2293.7	2139.2	2010.8	1868.3	1788.0	1695.7	1667.6	1661.6
7.5°	2556.6	2470.3	2281.7	2087.0	1850.2	1623.5	1448.9	1262.3	1147.9	1099.7	1081.6
10°	2516.5	2412.1	2155.3	1864.3	1533.2	1214.1	969.3	770.6	666.2	616.1	604.0
12.5°	2516.5	2404.1	2052.9	1651.6	1212.1	830.8	600.0	485.6	451.5	439.5	439.5
15°	2510.5	2388.0	1954.6	1432.8	897.0	557.9	447.5	423.4	419.4	417.4	415.4
17.5°	2540.6	2360.0	1854.2	1198.0	634.1	439.5	411.4	407.4	403.4	403.4	399.3
20°	2562.6	2343.9	1733.8	949.2	473.6	407.4	395.3	389.3	387.3	385.3	389.3
22.5°	2544.6	2319.8	1585.3	710.4	413.4	387.3	379.3	373.3	369.2	369.2	371.3
25°	2578.7	2297.7	1436.8	535.8	387.3	369.2	361.2	357.2	355.2	353.2	349.2
27.5°	2624.8	2307.8	1260.2	431.5	365.2	351.2	343.2	339.1	337.1	333.1	337.1
30°	2681.0	2305.8	1065.6	377.3	345.2	331.1	323.1	321.1	317.1	315.1	317.1
32.5°	2777.4	2357.9	864.9	349.2	323.1	311.0	303.0	301.0	299.0	297.0	295.0
35°	2984.1	2422.2	676.3	327.1	303.0	289.0	283.0	278.9	276.9	274.9	272.9
37.5°	3238.9	2564.6	515.7	307.0	283.0	268.9	262.9	260.9	252.9	250.8	248.8
40°	3558.0	2717.2	397.3	285.0	264.9	250.8	244.8	238.8	228.8	224.8	220.7
42.5°	3955.3	2865.7	327.1	264.9	244.8	234.8	224.8	214.7	206.7	198.7	194.7
45°	4352.7	3038.2	287.0	246.8	228.8	216.7	208.7	194.7	180.6	168.6	166.6
47.5°	4683.8	3100.4	262.9	226.8	212.7	202.7	190.6	172.6	152.5	140.5	138.5
50°	4930.6	3064.3	238.8	206.7	194.7	184.6	168.6	146.5	126.4	114.4	110.4
52.5°	4978.8	2905.8	216.7	190.6	176.6	164.6	146.5	122.4	100.3	88.3	86.3
55°	4944.7	2642.9	198.7	176.6	160.5	142.5	122.4	98.3	78.3	66.2	64.2
57.5°	4874.4	2331.9	178.6	158.5	140.5	122.4	100.3	80.3	58.2	46.2	46.2
60°	4635.6	1908.4	158.5	138.5	120.4	104.4	82.3	58.2	40.1	30.1	28.1
62.5°	4302.5	1466.9	138.5	118.4	104.4	86.3	64.2	42.1	24.1	16.1	16.1
65°	3694.4	1027.5	116.4	98.3	86.3	70.2	48.2	26.1	14.0	6.0	6.0
67.5°	2807.5	636.1	96.3	82.3	74.3	56.2	34.1	16.1	6.0	2.0	0.0
70°	1611.4	331.1	76.3	66.2	58.2	42.1	24.1	8.0	4.0	0.0	0.0
71°	1125.8	244.8	68.2	58.2	52.2	38.1	20.1	6.0	2.0	0.0	0.0
72.5°	563.9	162.5	58.2	48.2	42.1	30.1	16.1	6.0	2.0	0.0	0.0
75°	200.7	104.4	40.1	32.1	30.1	22.1	10.0	4.0	2.0	0.0	0.0
77.5°	138.5	84.3	28.1	20.1	20.1	14.0	6.0	2.0	2.0	0.0	0.0
80°	126.4	46.2	18.1	12.0	10.0	8.0	4.0	2.0	0.0	0.0	0.0
82.5°	126.4	34.1	10.0	8.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0
85°	88.3	18.1	6.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.0	6.0	4.0	2.0	2.0	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)