

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: P484963

Luminaire Tested: **IFLD-M-SA4B-830-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484963
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-830-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

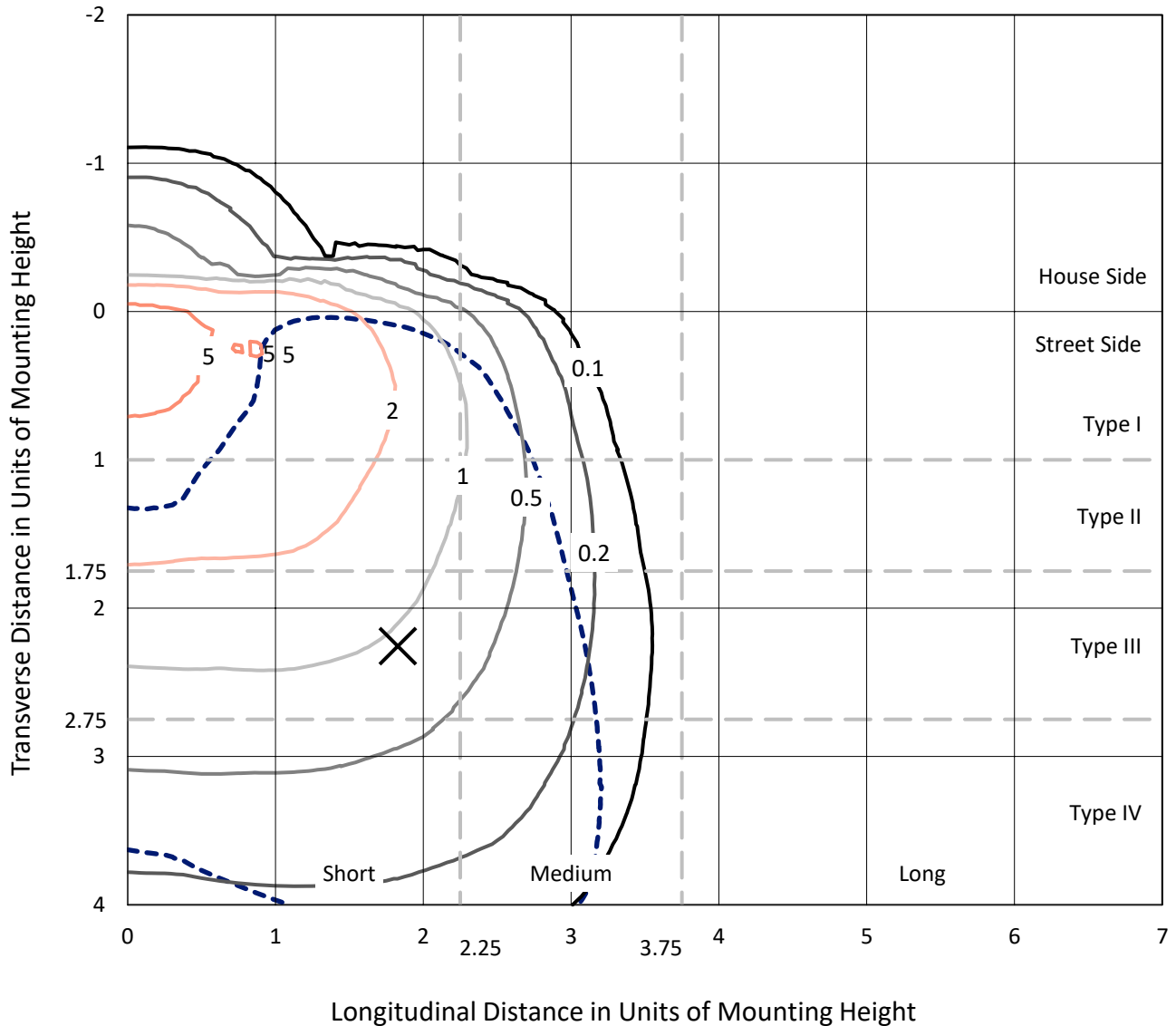
Lumens per Lamp: N/A
Luminaire Lumens: 14992.6 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

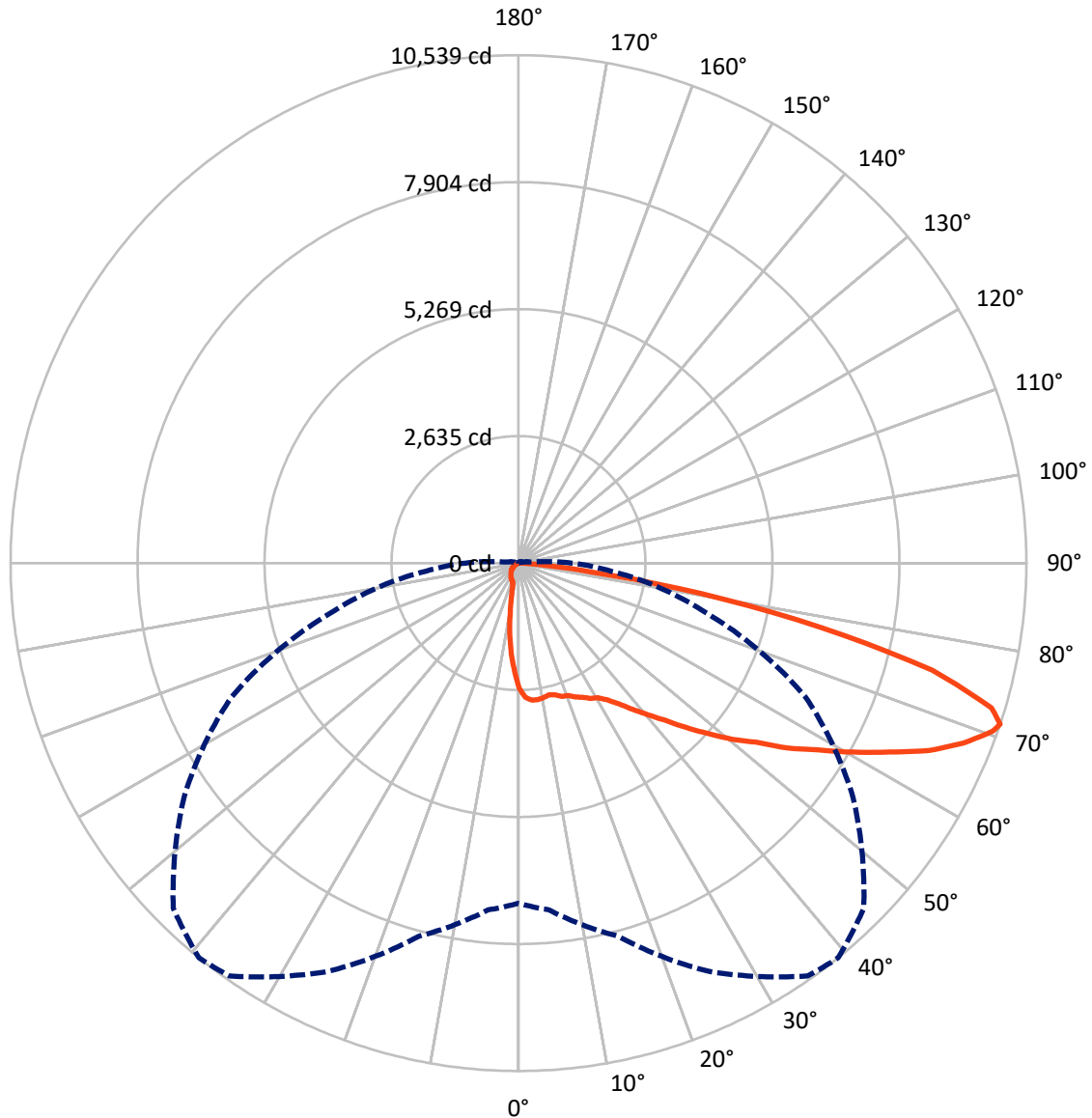
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.1 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	1128.7	0.0	1128.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	13863.9	0.0	13863.9
	% Fixture	92.5	0.0	92.5
Total	Lumens	14992.6	0.0	14992.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.2	1.5
10°-20°	537.0	3.6
20°-30°	862.1	5.8
30°-40°	1319.6	8.8
40°-50°	2118.2	14.1
50°-60°	3111.3	20.8
60°-70°	3918.6	26.1
70°-80°	2615.2	17.4
80°-90°	292.3	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°	14992.6	100.0
0°-180°	14992.6	100.0

Coefficient of Utilization



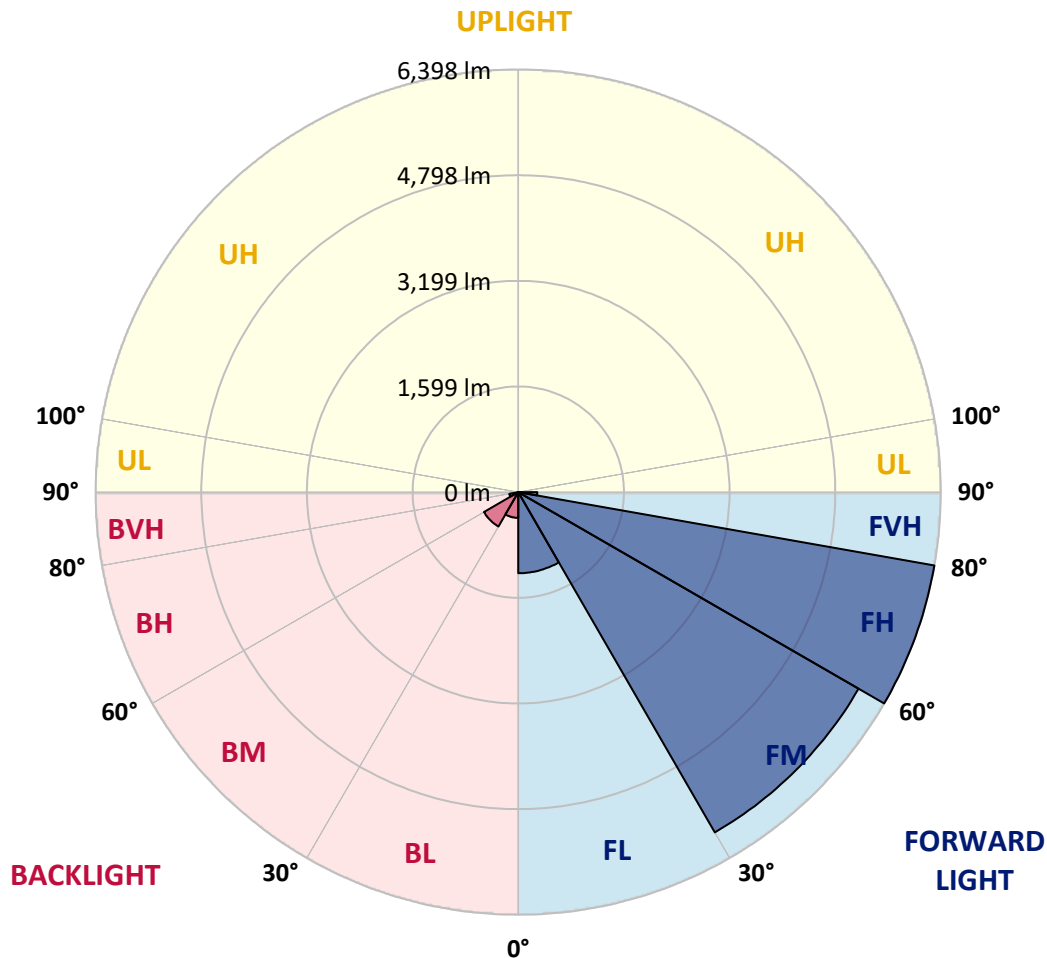
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1227.6	8.2			
FM (30°-60°)	5949.3	39.7			
FH (60°-80°)	6398.0	42.7			G3/7500
FVH (80°-90°)	289.0	1.9			G3/500
BL (0°-30°)	389.7	2.6	B1/500		
BM (30°-60°)	600.0	4.0	B1/1000		
BH (60°-80°)	135.9	0.9	B1/500		G1/500
BVH (80°-90°)	3.2	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°	2609.6	2609.6	2609.6	2609.6	2609.6	2609.6	2609.6	2609.6	2609.6	2609.6	2609.6
2.5°	2812.1	2839.6	2812.1	2800.3	2788.5	2790.5	2759.0	2764.9	2727.5	2678.4	2639.0
5°	2900.6	2938.0	2908.5	2894.7	2892.7	2855.4	2839.6	2802.3	2757.0	2680.3	2633.1
7.5°	2892.7	2884.9	2898.6	2886.8	2861.3	2861.3	2843.6	2790.5	2745.2	2658.7	2578.1
10°	2833.7	2857.3	2845.5	2831.8	2837.7	2839.6	2806.2	2768.8	2755.1	2668.5	2536.8
12.5°	2827.8	2788.5	2831.8	2833.7	2808.2	2806.2	2802.3	2792.4	2749.2	2670.5	2546.6
15°	2808.2	2792.4	2835.7	2837.7	2843.6	2837.7	2843.6	2835.7	2792.4	2747.2	2589.9
17.5°	2823.9	2806.2	2867.2	2896.7	2882.9	2910.4	2900.6	2865.2	2827.8	2774.7	2631.2
20°	2827.8	2853.4	2920.3	2932.1	2975.3	2930.1	2928.1	2890.8	2867.2	2810.1	2656.7
22.5°	2900.6	2912.4	2995.0	3020.6	3022.5	3016.6	2967.5	2924.2	2914.4	2843.6	2662.6
25°	3010.7	3052.0	3089.4	3105.1	3111.0	3083.5	3032.3	2977.3	2953.7	2908.5	2723.6
27.5°	3205.4	3179.8	3213.3	3236.9	3170.0	3179.8	3114.9	3067.7	3034.3	2995.0	2794.4
30°	3378.5	3354.9	3356.8	3352.9	3295.9	3242.8	3225.1	3142.5	3101.2	3116.9	2904.5
32.5°	3533.8	3482.7	3525.9	3506.3	3400.1	3384.4	3370.6	3266.4	3274.2	3347.0	3069.7
35°	3677.4	3659.7	3695.1	3659.7	3588.9	3584.9	3571.2	3480.7	3524.0	3628.2	3352.9
37.5°	3809.1	3815.0	3858.3	3840.6	3846.5	3850.4	3842.5	3746.2	3870.1	4104.1	3683.3
40°	3931.0	3923.2	4029.4	4084.4	4096.2	4139.5	4139.5	4115.9	4306.6	4570.2	4141.5
42.5°	4060.8	4080.5	4218.2	4310.6	4422.7	4460.0	4511.2	4523.0	4817.9	5118.8	4609.5
45°	4273.2	4239.8	4414.8	4633.1	4731.4	4863.2	4941.8	5008.7	5364.6	5777.6	5077.5
47.5°	4542.6	4475.8	4629.2	4945.8	5173.9	5282.0	5423.6	5512.1	5860.2	6286.9	5520.0
50°	4841.5	4772.7	4847.4	5284.0	5549.5	5746.1	5927.0	6039.1	6460.0	6857.2	5842.5
52.5°	5179.8	5116.8	5128.6	5636.0	6027.3	6170.9	6408.8	6576.0	6994.9	7201.3	5956.5
55°	5539.6	5523.9	5486.5	5980.1	6446.2	6768.7	6912.3	7112.8	7543.5	7388.2	6080.4
57.5°	5901.5	5852.3	5905.4	6436.4	7118.7	7311.5	7510.1	7630.0	7848.3	7551.4	6033.2
60°	6241.7	6245.6	6320.3	6931.9	7691.0	7964.3	8143.3	8070.5	8161.0	7622.2	5925.1
62.5°	6528.8	6520.9	6709.7	7488.4	8448.1	8633.0	8766.7	8442.2	8306.5	7691.0	5736.3
65°	6786.4	6874.9	7171.8	8151.2	9160.0	9372.4	9291.7	8794.2	8448.1	7488.4	5205.3
67.5°	6981.1	7112.8	7628.1	8774.5	9812.9	9962.3	9850.2	9061.7	8281.0	6694.0	4239.8
70°	7095.1	7228.9	7954.5	9293.7	10334.0	10442.1	10178.6	8855.2	7305.6	4847.4	2644.9
71°	7059.8	7223.0	8017.4	9348.8	10457.9	10538.5	10129.5	8473.7	6570.1	4058.9	1929.1
72.5°	6739.2	6892.6	7755.9	9309.4	10308.4	10259.3	9746.0	7557.3	5171.9	2587.9	997.0
75°	4951.7	5116.8	6656.6	8052.8	9201.3	8863.0	7887.6	5303.7	2698.0	792.5	291.0
77.5°	2466.0	2493.5	4131.6	5846.4	6749.0	6412.8	5286.0	2957.6	1008.8	234.0	145.5
80°	1136.6	1144.5	1549.6	3028.4	4080.5	3840.6	2961.6	1459.1	456.2	123.9	114.1
82.5°	774.8	786.6	934.1	1254.6	1771.8	1494.5	1199.6	934.1	261.5	74.7	112.1
85°	141.6	129.8	523.1	664.7	684.3	464.1	414.9	808.2	98.3	43.3	98.3
87.5°	0.0	2.0	72.8	271.4	243.8	108.2	141.6	196.7	9.8	13.8	17.7
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°	2609.6	2609.6	2609.6	2609.6	2609.6	2609.6	2609.6	2609.6	2609.6	2609.6	2609.6
2.5°	2605.6	2584.0	2511.2	2430.6	2357.8	2300.8	2228.0	2194.6	2141.5	2112.0	2110.1
5°	2568.3	2509.3	2383.4	2247.7	2096.3	1970.4	1830.8	1752.2	1661.7	1634.2	1628.3
7.5°	2505.3	2420.8	2235.9	2045.2	1813.1	1590.9	1419.8	1236.9	1124.8	1077.6	1059.9
10°	2466.0	2363.7	2112.0	1826.9	1502.4	1189.7	949.8	755.1	652.9	603.7	591.9
12.5°	2466.0	2355.9	2011.7	1618.4	1187.8	814.1	588.0	475.9	442.5	430.7	430.7
15°	2460.1	2340.1	1915.4	1404.1	879.0	546.7	438.5	414.9	411.0	409.0	407.1
17.5°	2489.6	2312.6	1817.1	1174.0	621.4	430.7	403.1	399.2	395.3	395.3	391.3
20°	2511.2	2296.9	1699.1	930.2	464.1	399.2	387.4	381.5	379.5	377.6	381.5
22.5°	2493.5	2273.3	1553.5	696.1	405.1	379.5	371.7	365.8	361.8	361.8	363.8
25°	2527.0	2251.6	1408.0	525.1	379.5	361.8	354.0	350.0	348.1	346.1	342.2
27.5°	2572.2	2261.5	1235.0	422.8	357.9	344.1	336.3	332.3	330.4	326.4	330.4
30°	2627.2	2259.5	1044.2	369.7	338.2	324.5	316.6	314.6	310.7	308.7	310.7
32.5°	2721.6	2310.6	847.6	342.2	316.6	304.8	296.9	295.0	293.0	291.0	289.1
35°	2924.2	2373.6	662.7	320.5	296.9	283.2	277.3	273.3	271.4	269.4	267.4
37.5°	3173.9	2513.2	505.4	300.9	277.3	263.5	257.6	255.6	247.8	245.8	243.8
40°	3486.6	2662.6	389.4	279.2	259.6	245.8	239.9	234.0	224.2	220.2	216.3
42.5°	3876.0	2808.2	320.5	259.6	239.9	230.1	220.2	210.4	202.5	194.7	190.8
45°	4265.3	2977.3	281.2	241.9	224.2	212.4	204.5	190.8	177.0	165.2	163.2
47.5°	4589.8	3038.2	257.6	222.2	208.4	198.6	186.8	169.1	149.5	137.7	135.7
50°	4831.7	3002.9	234.0	202.5	190.8	180.9	165.2	143.6	123.9	112.1	108.2
52.5°	4878.9	2847.5	212.4	186.8	173.1	161.3	143.6	120.0	98.3	86.5	84.6
55°	4845.5	2589.9	194.7	173.1	157.3	139.6	120.0	96.4	76.7	64.9	62.9
57.5°	4776.6	2285.1	175.0	155.4	137.7	120.0	98.3	78.7	57.0	45.2	45.2
60°	4542.6	1870.1	155.4	135.7	118.0	102.3	80.6	57.0	39.3	29.5	27.5
62.5°	4216.2	1437.5	135.7	116.0	102.3	84.6	62.9	41.3	23.6	15.7	15.7
65°	3620.3	1006.9	114.1	96.4	84.6	68.8	47.2	25.6	13.8	5.9	5.9
67.5°	2751.1	623.4	94.4	80.6	72.8	55.1	33.4	15.7	5.9	2.0	0.0
70°	1579.1	324.5	74.7	64.9	57.0	41.3	23.6	7.9	3.9	0.0	0.0
71°	1103.2	239.9	66.9	57.0	51.1	37.4	19.7	5.9	2.0	0.0	0.0
72.5°	552.6	159.3	57.0	47.2	41.3	29.5	15.7	5.9	2.0	0.0	0.0
75°	196.7	102.3	39.3	31.5	29.5	21.6	9.8	3.9	2.0	0.0	0.0
77.5°	135.7	82.6	27.5	19.7	19.7	13.8	5.9	2.0	2.0	0.0	0.0
80°	123.9	45.2	17.7	11.8	9.8	7.9	3.9	2.0	0.0	0.0	0.0
82.5°	123.9	33.4	9.8	7.9	5.9	3.9	2.0	0.0	0.0	0.0	0.0
85°	86.5	17.7	5.9	5.9	3.9	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.8	5.9	3.9	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)