

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: P484924

Luminaire Tested: **IFLD-M-SA4B-827-U-SL4-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484924
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-827-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

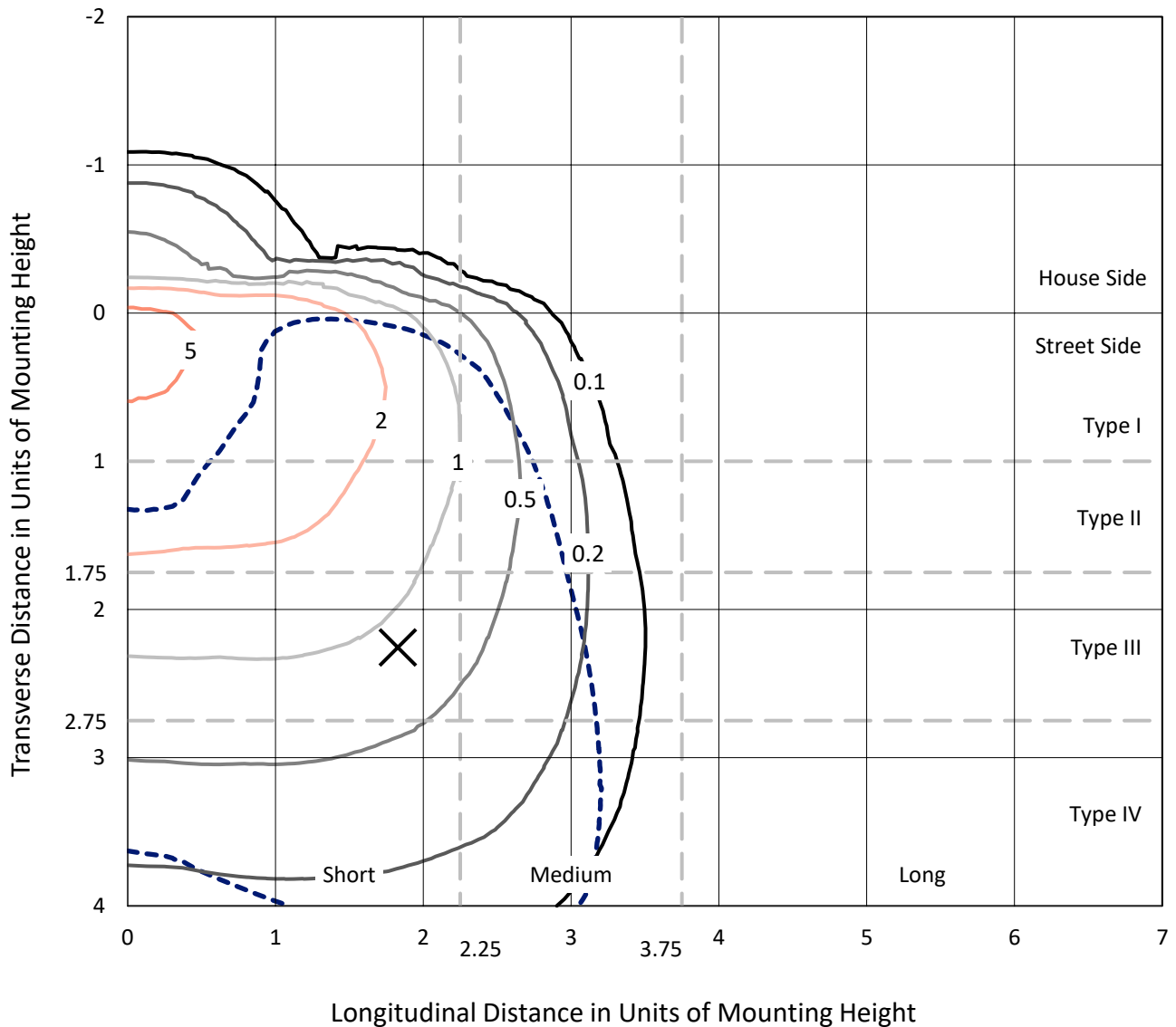
Lumens per Lamp: N/A
Luminaire Lumens: 13869.9 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

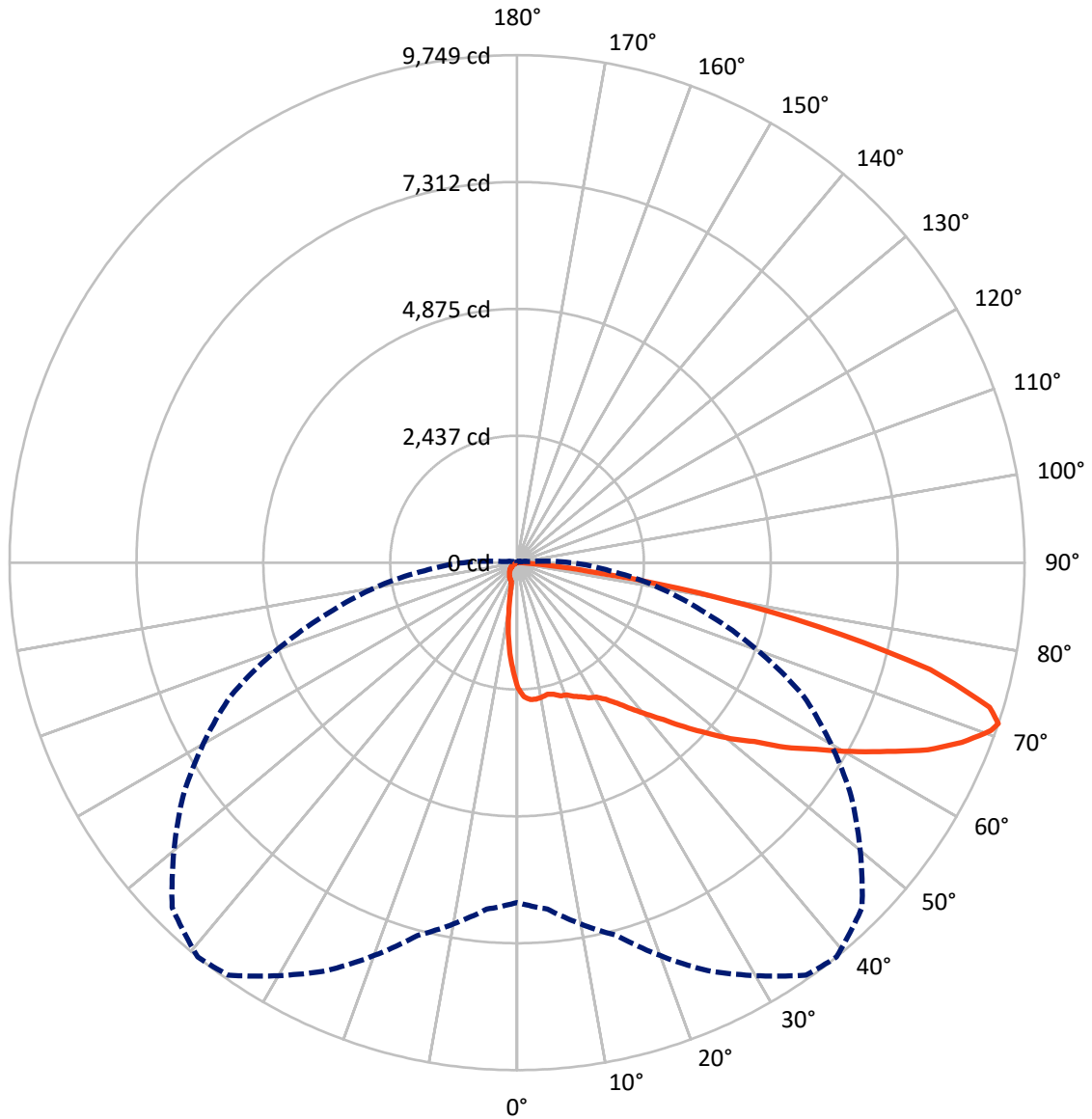
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 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	1044.2	0.0	1044.2
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	12825.7	0.0	12825.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	13869.9	0.0	13869.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.8	1.5
10°-20°	496.8	3.6
20°-30°	797.5	5.7
30°-40°	1220.8	8.8
40°-50°	1959.6	14.1
50°-60°	2878.4	20.8
60°-70°	3625.2	26.1
70°-80°	2419.4	17.4
80°-90°	270.4	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°	13869.9	100.0
0°-180°	13869.9	100.0

Coefficient of Utilization



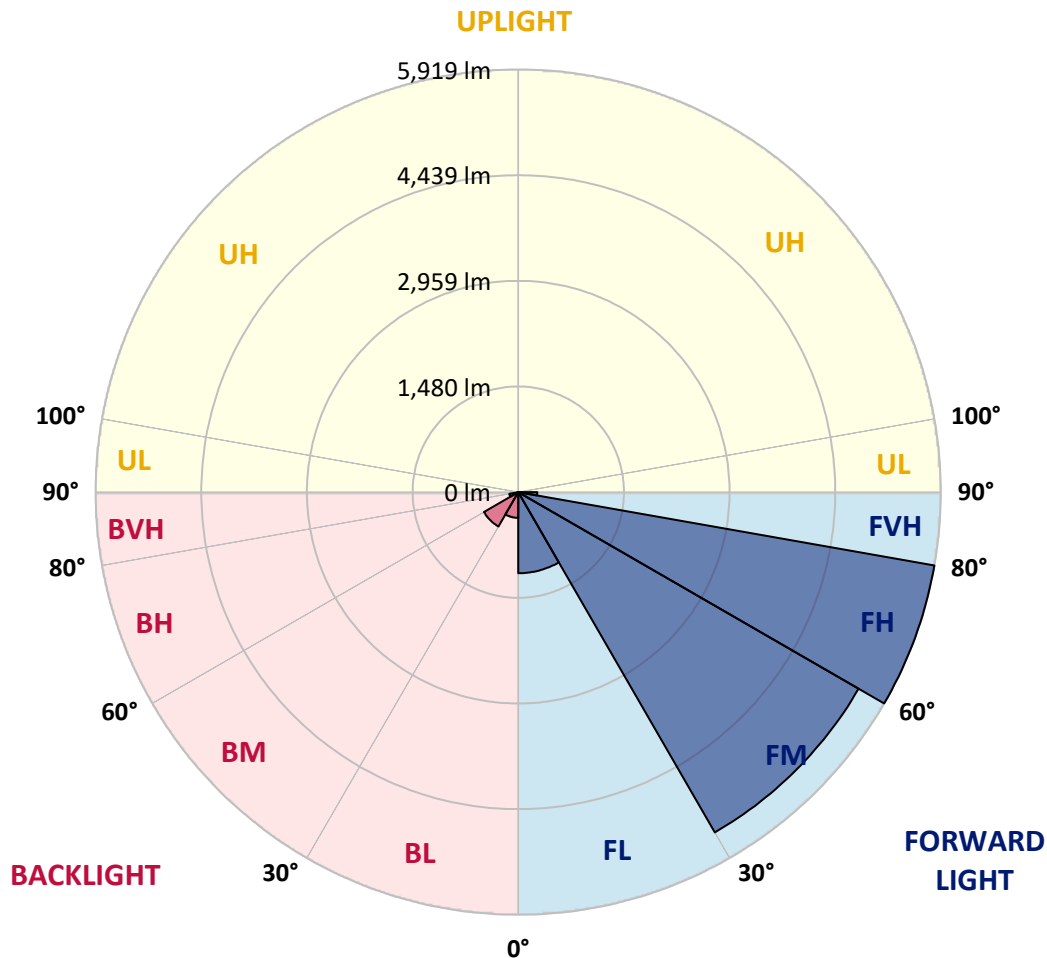
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1135.7	8.2			
FM (30°-60°)	5503.8	39.7			
FH (60°-80°)	5918.9	42.7			G3/7500
FVH (80°-90°)	267.4	1.9			G3/500
BL (0°-30°)	360.5	2.6	B1/500		
BM (30°-60°)	555.0	4.0	B1/1000		
BH (60°-80°)	125.7	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°	2414.1	2414.1	2414.1	2414.1	2414.1	2414.1	2414.1	2414.1	2414.1	2414.1	2414.1
2.5°	2601.5	2627.0	2601.5	2590.6	2579.7	2581.5	2552.4	2557.9	2523.3	2477.8	2441.4
5°	2683.4	2718.0	2690.7	2677.9	2676.1	2641.6	2627.0	2592.4	2550.6	2479.6	2436.0
7.5°	2676.1	2668.8	2681.6	2670.7	2647.0	2647.0	2630.6	2581.5	2539.7	2459.6	2385.0
10°	2621.5	2643.4	2632.5	2619.7	2625.2	2627.0	2596.1	2561.5	2548.8	2468.7	2346.8
12.5°	2616.1	2579.7	2619.7	2621.5	2597.9	2596.1	2592.4	2583.3	2543.3	2470.5	2355.9
15°	2597.9	2583.3	2623.4	2625.2	2630.6	2625.2	2630.6	2623.4	2583.3	2541.5	2396.0
17.5°	2612.4	2596.1	2652.5	2679.8	2667.0	2692.5	2683.4	2650.6	2616.1	2567.0	2434.2
20°	2616.1	2639.7	2701.6	2712.5	2752.5	2710.7	2708.9	2674.3	2652.5	2599.7	2457.8
22.5°	2683.4	2694.3	2770.7	2794.4	2796.2	2790.7	2745.3	2705.2	2696.1	2630.6	2463.3
25°	2785.3	2823.5	2858.0	2872.6	2878.1	2852.6	2805.3	2754.3	2732.5	2690.7	2519.7
27.5°	2965.4	2941.7	2972.7	2994.5	2932.6	2941.7	2881.7	2838.0	2807.1	2770.7	2585.2
30°	3125.5	3103.6	3105.5	3101.8	3049.1	2999.9	2983.6	2907.2	2869.0	2883.5	2687.0
32.5°	3269.2	3221.9	3261.9	3243.7	3145.5	3130.9	3118.2	3021.8	3029.1	3096.4	2839.9
35°	3402.0	3385.6	3418.4	3385.6	3320.1	3316.5	3303.8	3220.1	3260.1	3356.5	3101.8
37.5°	3523.9	3529.3	3569.4	3553.0	3558.5	3562.1	3554.8	3465.7	3580.3	3796.8	3407.5
40°	3636.7	3629.4	3727.6	3778.6	3789.5	3829.5	3829.5	3807.7	3984.2	4227.9	3831.3
42.5°	3756.8	3774.9	3902.3	3987.8	4091.5	4126.1	4173.4	4184.3	4457.2	4735.5	4264.3
45°	3953.2	3922.3	4084.2	4286.2	4377.1	4499.0	4571.8	4633.6	4962.9	5345.0	4697.3
47.5°	4202.5	4140.6	4282.5	4575.4	4786.5	4886.5	5017.5	5099.4	5421.4	5816.1	5106.6
50°	4479.0	4415.3	4484.5	4888.3	5133.9	5315.9	5483.2	5586.9	5976.2	6343.7	5405.0
52.5°	4791.9	4733.7	4744.6	5214.0	5576.0	5708.8	5928.9	6083.6	6471.1	6662.1	5510.5
55°	5124.8	5110.3	5075.7	5532.3	5963.5	6261.9	6394.7	6580.2	6978.6	6834.9	5625.1
57.5°	5459.6	5414.1	5463.2	5954.4	6585.7	6764.0	6947.7	7058.7	7260.6	6985.9	5581.5
60°	5774.3	5777.9	5847.1	6412.9	7115.1	7368.0	7533.5	7466.2	7549.9	7051.4	5481.4
62.5°	6039.9	6032.6	6207.3	6927.7	7815.5	7986.5	8110.2	7810.0	7684.5	7115.1	5306.8
65°	6278.2	6360.1	6634.8	7540.8	8474.1	8670.6	8596.0	8135.7	7815.5	6927.7	4815.6
67.5°	6458.3	6580.2	7056.9	8117.5	9078.1	9216.3	9112.6	8383.1	7660.9	6192.7	3922.3
70°	6563.9	6687.6	7358.9	8597.8	9560.2	9660.2	9416.4	8192.1	6758.5	4484.5	2446.9
71°	6531.1	6682.1	7417.1	8648.7	9674.8	9749.4	9371.0	7839.2	6078.1	3754.9	1784.7
72.5°	6234.6	6376.5	7175.1	8612.3	9536.5	9491.0	9016.2	6991.4	4784.6	2394.1	922.4
75°	4580.9	4733.7	6158.2	7449.8	8512.3	8199.4	7297.0	4906.5	2496.0	733.2	269.2
77.5°	2281.3	2306.8	3822.2	5408.6	6243.7	5932.6	4890.1	2736.2	933.3	216.5	134.6
80°	1051.5	1058.8	1433.6	2801.6	3774.9	3553.0	2739.8	1349.9	422.1	114.6	105.5
82.5°	716.8	727.7	864.1	1160.7	1639.1	1382.6	1109.7	864.1	242.0	69.1	103.7
85°	131.0	120.1	483.9	614.9	633.1	429.3	383.9	747.7	91.0	40.0	91.0
87.5°	0.0	1.8	67.3	251.1	225.6	100.1	131.0	181.9	9.1	12.7	16.4
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°	2414.1	2414.1	2414.1	2414.1	2414.1	2414.1	2414.1	2414.1	2414.1	2414.1	2414.1
2.5°	2410.5	2390.5	2323.2	2248.6	2181.3	2128.5	2061.2	2030.3	1981.2	1953.9	1952.1
5°	2375.9	2321.4	2204.9	2079.4	1939.3	1822.9	1693.7	1621.0	1537.3	1511.8	1506.3
7.5°	2317.7	2239.5	2068.5	1892.0	1677.4	1471.8	1313.5	1144.3	1040.6	996.9	980.6
10°	2281.3	2186.7	1953.9	1690.1	1389.9	1100.6	878.7	698.6	604.0	558.5	547.6
12.5°	2281.3	2179.5	1861.1	1497.2	1098.8	753.2	544.0	440.3	409.3	398.4	398.4
15°	2275.9	2164.9	1772.0	1298.9	813.2	505.8	405.7	383.9	380.2	378.4	376.6
17.5°	2303.2	2139.4	1681.0	1086.1	574.9	398.4	372.9	369.3	365.7	365.7	362.0
20°	2323.2	2124.9	1571.8	860.5	429.3	369.3	358.4	352.9	351.1	349.3	352.9
22.5°	2306.8	2103.1	1437.2	644.0	374.8	351.1	343.8	338.4	334.7	334.7	336.6
25°	2337.7	2083.0	1302.6	485.7	351.1	334.7	327.5	323.8	322.0	320.2	316.5
27.5°	2379.6	2092.1	1142.5	391.1	331.1	318.4	311.1	307.5	305.6	302.0	305.6
30°	2430.5	2090.3	966.0	342.0	312.9	300.2	292.9	291.1	287.4	285.6	287.4
32.5°	2517.8	2137.6	784.1	316.5	292.9	282.0	274.7	272.9	271.1	269.2	267.4
35°	2705.2	2195.8	613.1	296.5	274.7	262.0	256.5	252.9	251.1	249.2	247.4
37.5°	2936.3	2325.0	467.5	278.3	256.5	243.8	238.3	236.5	229.2	227.4	225.6
40°	3225.5	2463.3	360.2	258.3	240.1	227.4	221.9	216.5	207.4	203.8	200.1
42.5°	3585.7	2597.9	296.5	240.1	221.9	212.9	203.8	194.7	187.4	180.1	176.5
45°	3946.0	2754.3	260.2	223.8	207.4	196.5	189.2	176.5	163.7	152.8	151.0
47.5°	4246.1	2810.7	238.3	205.6	192.8	183.7	172.8	156.5	138.3	127.3	125.5
50°	4469.9	2778.0	216.5	187.4	176.5	167.4	152.8	132.8	114.6	103.7	100.1
52.5°	4513.6	2634.3	196.5	172.8	160.1	149.2	132.8	111.0	91.0	80.0	78.2
55°	4482.6	2396.0	180.1	160.1	145.5	129.2	111.0	89.1	71.0	60.0	58.2
57.5°	4419.0	2114.0	161.9	143.7	127.3	111.0	91.0	72.8	52.8	41.8	41.8
60°	4202.5	1730.1	143.7	125.5	109.2	94.6	74.6	52.8	36.4	27.3	25.5
62.5°	3900.5	1329.9	125.5	107.3	94.6	78.2	58.2	38.2	21.8	14.6	14.6
65°	3349.2	931.5	105.5	89.1	78.2	63.7	43.7	23.7	12.7	5.5	5.5
67.5°	2545.1	576.7	87.3	74.6	67.3	50.9	30.9	14.6	5.5	1.8	0.0
70°	1460.9	300.2	69.1	60.0	52.8	38.2	21.8	7.3	3.6	0.0	0.0
71°	1020.6	221.9	61.9	52.8	47.3	34.6	18.2	5.5	1.8	0.0	0.0
72.5°	511.2	147.4	52.8	43.7	38.2	27.3	14.6	5.5	1.8	0.0	0.0
75°	181.9	94.6	36.4	29.1	27.3	20.0	9.1	3.6	1.8	0.0	0.0
77.5°	125.5	76.4	25.5	18.2	18.2	12.7	5.5	1.8	1.8	0.0	0.0
80°	114.6	41.8	16.4	10.9	9.1	7.3	3.6	1.8	0.0	0.0	0.0
82.5°	114.6	30.9	9.1	7.3	5.5	3.6	1.8	0.0	0.0	0.0	0.0
85°	80.0	16.4	5.5	5.5	3.6	1.8	0.0	0.0	0.0	0.0	0.0
87.5°	12.7	5.5	3.6	1.8	1.8	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)