

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: P484689

Luminaire Tested: **IFLD-M-SA4A-727-U-SL4-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484689
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-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

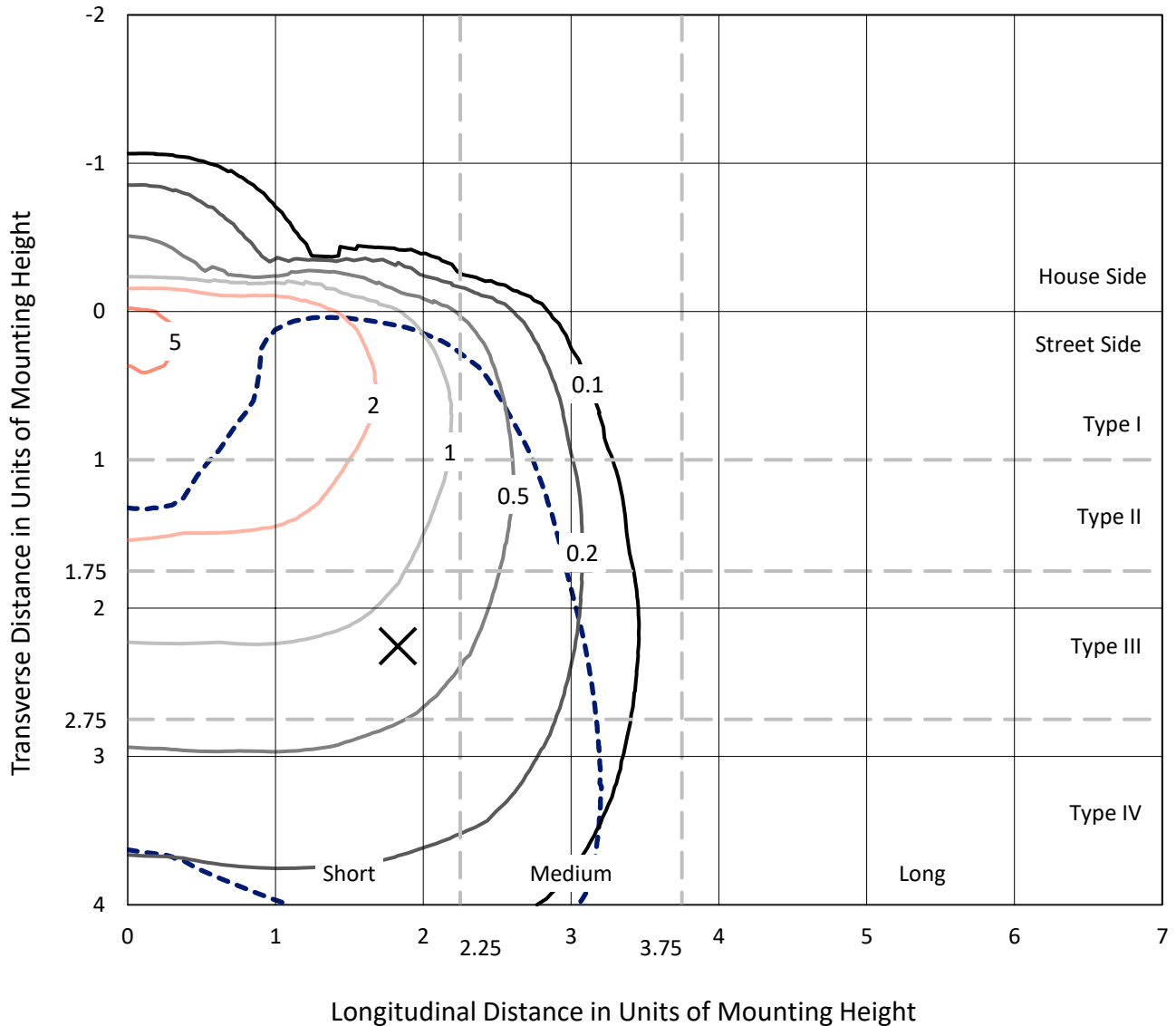
Lumens per Lamp: N/A
Luminaire Lumens: 12758.8 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 128.6
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

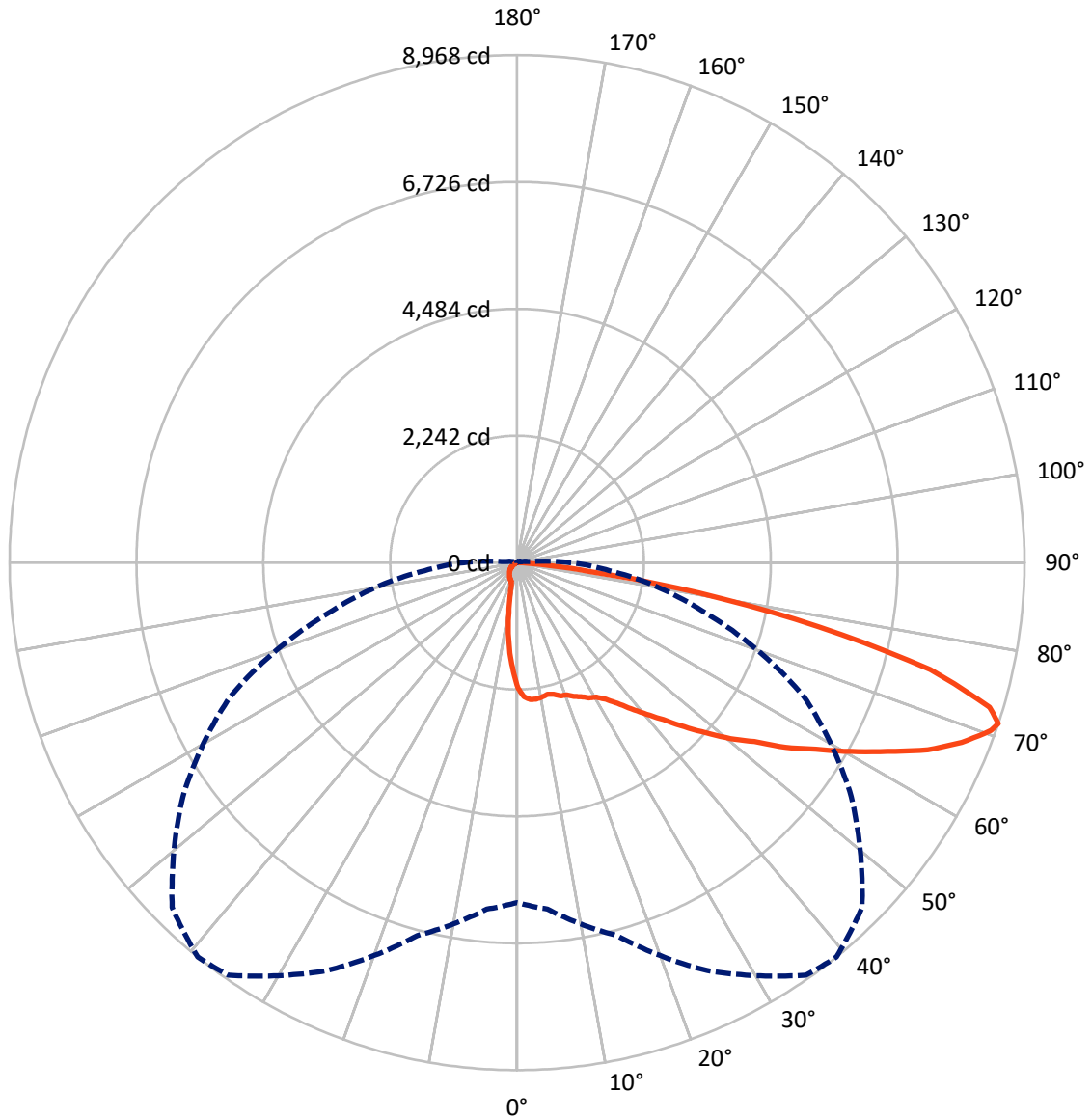
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 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	960.5	0.0	960.5
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	11798.2	0.0	11798.2
	% Fixture	92.5	0.0	92.5
Total	Lumens	12758.8	0.0	12758.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.7	1.5
10°-20°	457.0	3.6
20°-30°	733.6	5.8
30°-40°	1123.0	8.8
40°-50°	1802.6	14.1
50°-60°	2647.8	20.8
60°-70°	3334.8	26.1
70°-80°	2225.5	17.4
80°-90°	248.7	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°	12758.8	100.0
0°-180°	12758.8	100.0

Coefficient of Utilization



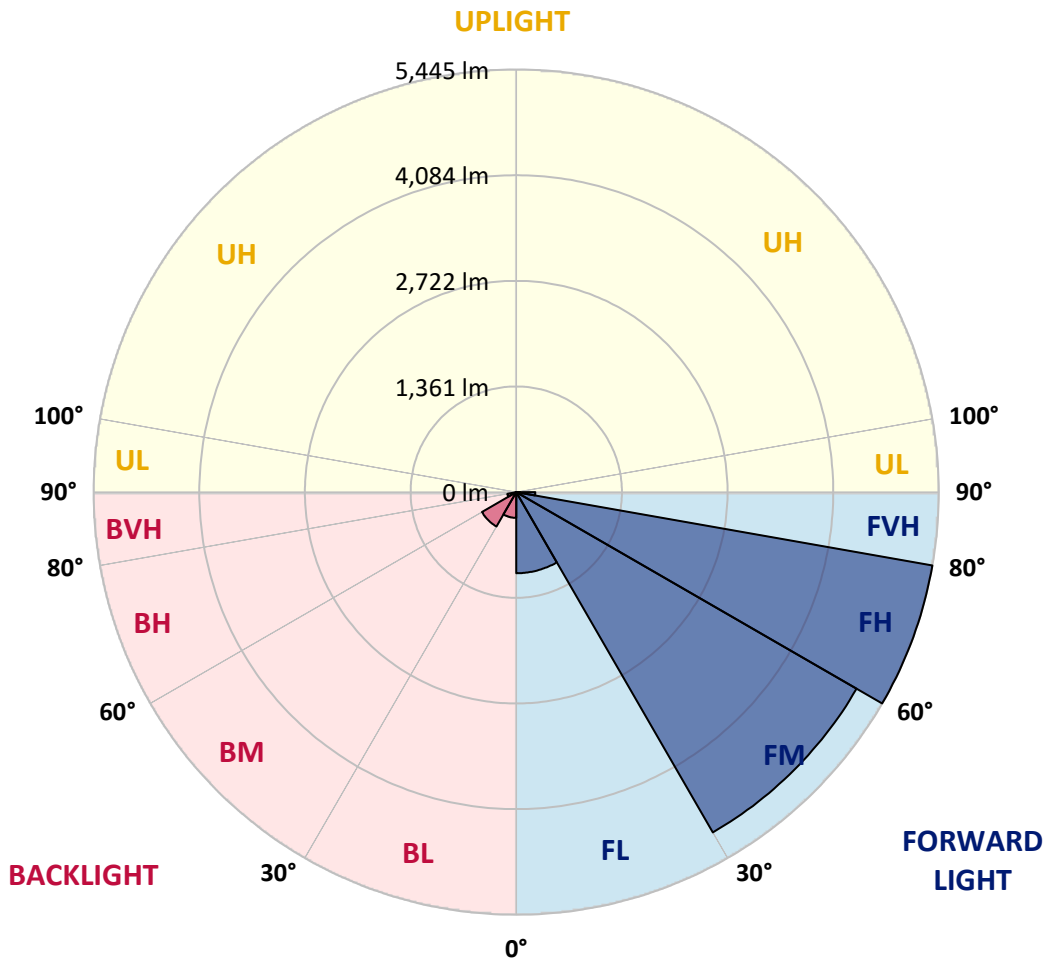
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1044.7	8.2			
FM (30°-60°)	5062.9	39.7			
FH (60°-80°)	5444.7	42.7			G3/7500
FVH (80°-90°)	246.0	1.9			G3/500
BL (0°-30°)	331.6	2.6	B1/500		
BM (30°-60°)	510.6	4.0	B1/1000		
BH (60°-80°)	115.6	0.9	B1/500		G1/500
BVH (80°-90°)	2.7	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°	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7
2.5°	2393.1	2416.5	2393.1	2383.1	2373.0	2374.7	2347.9	2353.0	2321.2	2279.3	2245.8
5°	2468.4	2500.2	2475.1	2463.4	2461.7	2429.9	2416.5	2384.7	2346.3	2281.0	2240.8
7.5°	2461.7	2455.0	2466.8	2456.7	2435.0	2435.0	2419.9	2374.7	2336.2	2262.6	2194.0
10°	2411.5	2431.6	2421.6	2409.9	2414.9	2416.5	2388.1	2356.3	2344.6	2271.0	2158.8
12.5°	2406.5	2373.0	2409.9	2411.5	2389.8	2388.1	2384.7	2376.4	2339.6	2272.6	2167.2
15°	2389.8	2376.4	2413.2	2414.9	2419.9	2414.9	2419.9	2413.2	2376.4	2337.9	2204.0
17.5°	2403.2	2388.1	2440.0	2465.1	2453.4	2476.8	2468.4	2438.3	2406.5	2361.3	2239.2
20°	2406.5	2428.3	2485.2	2495.2	2532.0	2493.5	2491.9	2460.1	2440.0	2391.4	2260.9
22.5°	2468.4	2478.5	2548.8	2570.5	2572.2	2567.2	2525.3	2488.5	2480.1	2419.9	2265.9
25°	2562.1	2597.3	2629.1	2642.5	2647.5	2624.1	2580.6	2533.7	2513.6	2475.1	2317.8
27.5°	2727.8	2706.1	2734.5	2754.6	2697.7	2706.1	2650.8	2610.7	2582.2	2548.8	2378.1
30°	2875.1	2855.0	2856.7	2853.3	2804.8	2759.6	2744.6	2674.3	2639.1	2652.5	2471.8
32.5°	3007.3	2963.8	3000.6	2983.9	2893.5	2880.1	2868.4	2779.7	2786.4	2848.3	2612.3
35°	3129.5	3114.4	3144.5	3114.4	3054.2	3050.8	3039.1	2962.1	2998.9	3087.6	2853.3
37.5°	3241.6	3246.6	3283.4	3268.4	3273.4	3276.7	3270.0	3188.0	3293.5	3492.6	3134.5
40°	3345.3	3338.6	3429.0	3475.9	3485.9	3522.7	3522.7	3502.7	3665.0	3889.2	3524.4
42.5°	3455.8	3472.5	3589.7	3668.3	3763.7	3795.5	3839.0	3849.1	4100.1	4356.1	3922.7
45°	3636.5	3608.1	3757.0	3942.8	4026.5	4138.6	4205.5	4262.4	4565.3	4916.8	4321.0
47.5°	3865.8	3808.9	3939.4	4208.9	4403.0	4495.0	4615.5	4690.8	4987.1	5350.2	4697.5
50°	4120.2	4061.6	4125.2	4496.7	4722.6	4890.0	5044.0	5139.3	5497.5	5835.5	4972.0
52.5°	4408.0	4354.5	4364.5	4796.3	5129.3	5251.5	5454.0	5596.2	5952.7	6128.4	5069.1
55°	4714.3	4700.9	4669.1	5089.1	5485.8	5760.2	5882.4	6053.1	6419.6	6287.4	5174.5
57.5°	5022.2	4980.4	5025.5	5477.4	6058.1	6222.1	6391.1	6493.2	6679.0	6426.3	5134.3
60°	5311.7	5315.1	5378.7	5899.1	6545.1	6777.7	6930.0	6868.1	6945.1	6486.5	5042.3
62.5°	5556.0	5549.4	5710.0	6372.7	7189.4	7346.7	7460.5	7184.4	7068.9	6545.1	4881.6
65°	5775.3	5850.6	6103.3	6936.7	7795.2	7975.9	7907.3	7483.9	7189.4	6372.7	4429.8
67.5°	5941.0	6053.1	6491.5	7467.2	8350.8	8478.0	8382.6	7711.5	7047.1	5696.6	3608.1
70°	6038.0	6151.8	6769.3	7909.0	8794.3	8886.3	8662.1	7535.8	6217.1	4125.2	2250.9
71°	6007.9	6146.8	6822.9	7955.9	8899.7	8968.3	8620.2	7211.1	5591.2	3454.1	1641.7
72.5°	5735.1	5865.6	6600.3	7922.4	8772.5	8730.7	8293.9	6431.3	4401.3	2202.3	848.5
75°	4213.9	4354.5	5664.8	6853.0	7830.3	7542.5	6712.4	4513.5	2296.1	674.4	247.7
77.5°	2098.6	2122.0	3516.0	4975.3	5743.5	5457.3	4498.4	2517.0	858.5	199.1	123.8
80°	967.3	974.0	1318.7	2577.2	3472.5	3268.4	2520.3	1241.7	388.3	105.4	97.1
82.5°	659.4	669.4	794.9	1067.7	1507.8	1271.9	1020.8	794.9	222.6	63.6	95.4
85°	120.5	110.5	445.2	565.6	582.4	394.9	353.1	687.8	83.7	36.8	83.7
87.5°	0.0	1.7	61.9	230.9	207.5	92.0	120.5	167.4	8.4	11.7	15.1
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°	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7	2220.7
2.5°	2217.4	2199.0	2137.1	2068.5	2006.5	1958.0	1896.1	1867.6	1822.5	1797.3	1795.7
5°	2185.6	2135.4	2028.3	1912.8	1784.0	1676.9	1558.0	1491.1	1414.1	1390.7	1385.7
7.5°	2132.0	2060.1	1902.8	1740.4	1543.0	1353.9	1208.3	1052.6	957.2	917.1	902.0
10°	2098.6	2011.6	1797.3	1554.7	1278.6	1012.5	808.3	642.6	555.6	513.8	503.7
12.5°	2098.6	2004.9	1712.0	1377.3	1010.8	692.8	500.4	405.0	376.5	366.5	366.5
15°	2093.6	1991.5	1630.0	1194.9	748.1	465.2	373.2	353.1	349.8	348.1	346.4
17.5°	2118.7	1968.0	1546.3	999.1	528.8	366.5	343.1	339.7	336.4	336.4	333.0
20°	2137.1	1954.7	1445.9	791.6	394.9	339.7	329.7	324.7	323.0	321.3	324.7
22.5°	2122.0	1934.6	1322.1	592.4	344.7	323.0	316.3	311.3	307.9	307.9	309.6
25°	2150.5	1916.2	1198.2	446.8	323.0	307.9	301.2	297.9	296.2	294.5	291.2
27.5°	2188.9	1924.5	1051.0	359.8	304.6	292.9	286.2	282.8	281.1	277.8	281.1
30°	2235.8	1922.9	888.6	314.6	287.8	276.1	269.4	267.8	264.4	262.7	264.4
32.5°	2316.1	1966.4	721.3	291.2	269.4	259.4	252.7	251.0	249.4	247.7	246.0
35°	2488.5	2019.9	564.0	272.8	252.7	241.0	236.0	232.6	230.9	229.3	227.6
37.5°	2701.0	2138.7	430.1	256.0	236.0	224.3	219.2	217.6	210.9	209.2	207.5
40°	2967.1	2265.9	331.4	237.6	220.9	209.2	204.2	199.1	190.8	187.4	184.1
42.5°	3298.5	2389.8	272.8	220.9	204.2	195.8	187.4	179.1	172.4	165.7	162.3
45°	3629.8	2533.7	239.3	205.8	190.8	180.7	174.0	162.3	150.6	140.6	138.9
47.5°	3906.0	2585.6	219.2	189.1	177.4	169.0	159.0	143.9	127.2	117.1	115.5
50°	4111.8	2555.4	199.1	172.4	162.3	154.0	140.6	122.2	105.4	95.4	92.0
52.5°	4152.0	2423.2	180.7	159.0	147.3	137.2	122.2	102.1	83.7	73.6	72.0
55°	4123.5	2204.0	165.7	147.3	133.9	118.8	102.1	82.0	65.3	55.2	53.6
57.5°	4065.0	1944.6	148.9	132.2	117.1	102.1	83.7	66.9	48.5	38.5	38.5
60°	3865.8	1591.5	132.2	115.5	100.4	87.0	68.6	48.5	33.5	25.1	23.4
62.5°	3588.0	1223.3	115.5	98.7	87.0	72.0	53.6	35.1	20.1	13.4	13.4
65°	3080.9	856.8	97.1	82.0	72.0	58.6	40.2	21.8	11.7	5.0	5.0
67.5°	2341.2	530.5	80.3	68.6	61.9	46.9	28.4	13.4	5.0	1.7	0.0
70°	1343.8	276.1	63.6	55.2	48.5	35.1	20.1	6.7	3.3	0.0	0.0
71°	938.8	204.2	56.9	48.5	43.5	31.8	16.7	5.0	1.7	0.0	0.0
72.5°	470.3	135.6	48.5	40.2	35.1	25.1	13.4	5.0	1.7	0.0	0.0
75°	167.4	87.0	33.5	26.8	25.1	18.4	8.4	3.3	1.7	0.0	0.0
77.5°	115.5	70.3	23.4	16.7	16.7	11.7	5.0	1.7	1.7	0.0	0.0
80°	105.4	38.5	15.1	10.0	8.4	6.7	3.3	1.7	0.0	0.0	0.0
82.5°	105.4	28.4	8.4	6.7	5.0	3.3	1.7	0.0	0.0	0.0	0.0
85°	73.6	15.1	5.0	5.0	3.3	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	11.7	5.0	3.3	1.7	1.7	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)