

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: P484514

Luminaire Tested: **IFLD-S-SA3B-827-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484514
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-827-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

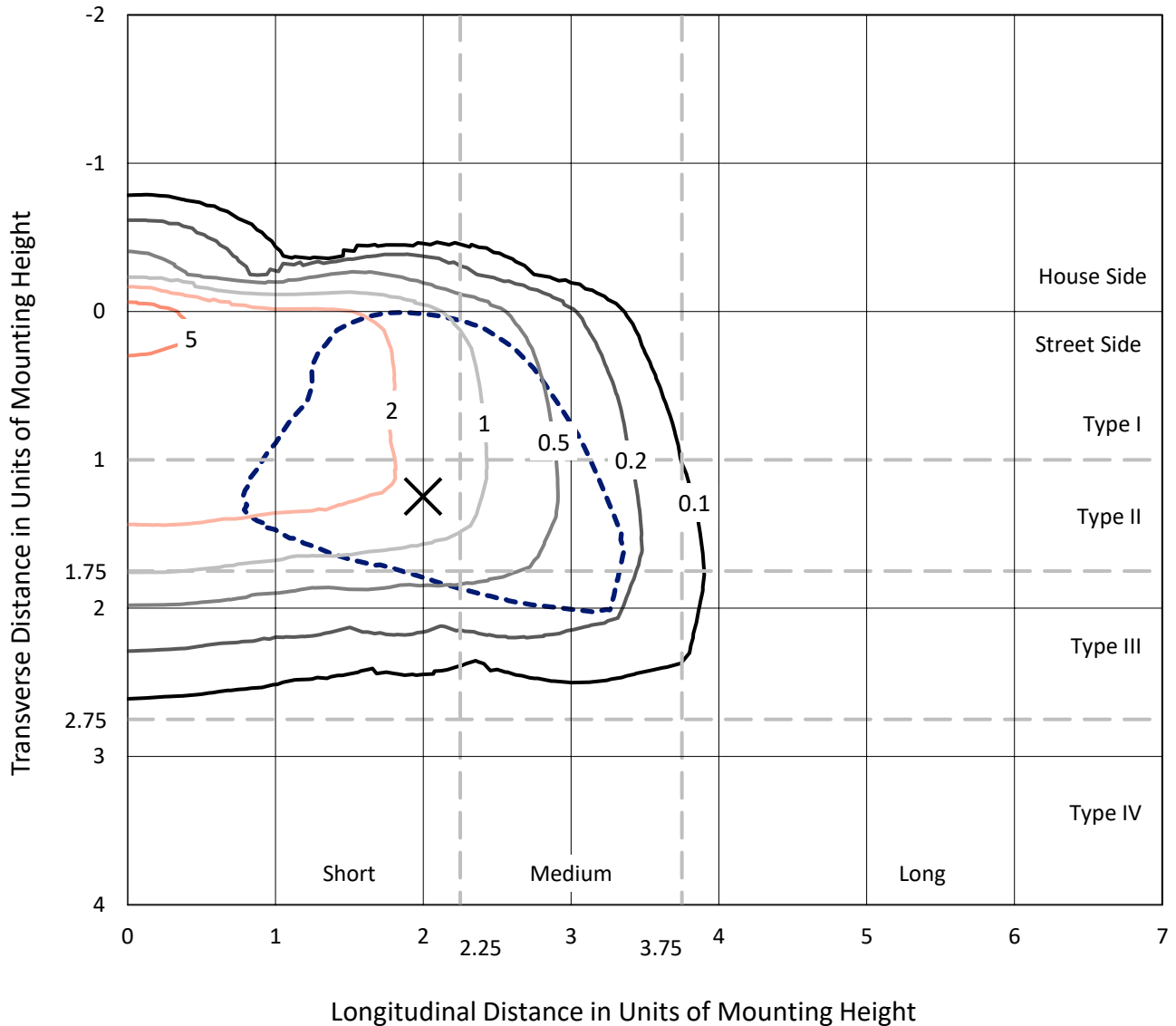
Lumens per Lamp: N/A
Luminaire Lumens: 10460.7 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4
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

REPORT NUMBER: P484514
 CATALOG NUMBER: IFLD-S-SA3B-827-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

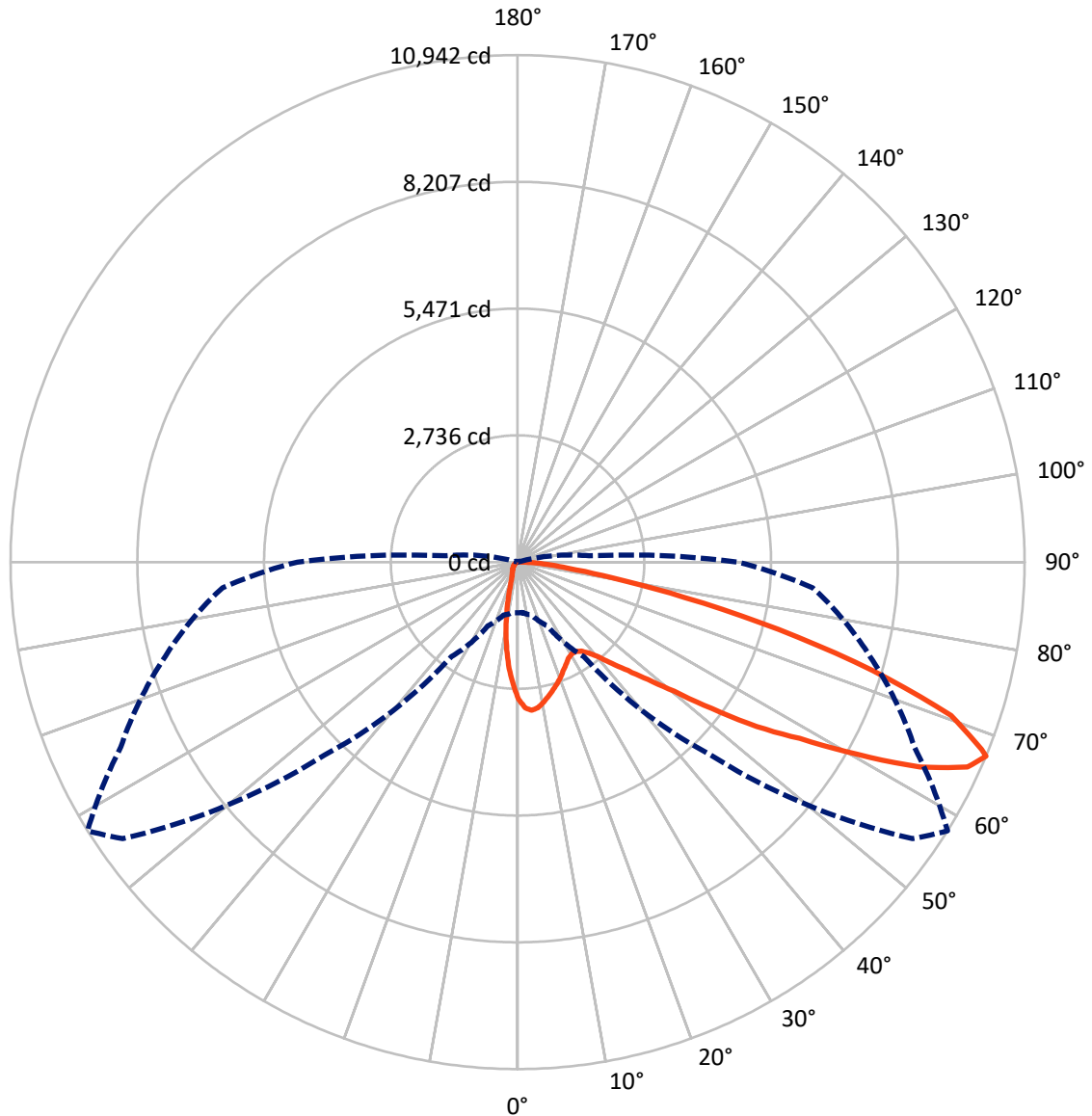
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - N/A

REPORT NUMBER: P484514
CATALOG NUMBER: IFLD-S-SA3B-827-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P484514
 CATALOG NUMBER: IFLD-S-SA3B-827-U-SL3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	864.7	0.0	864.7
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	9596.0	0.0	9596.0
	% Fixture	91.7	0.0	91.7
Total	Lumens	10460.7	0.0	10460.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.2	2.2
10°-20°	487.8	4.7
20°-30°	647.1	6.2
30°-40°	896.7	8.6
40°-50°	1463.2	14.0
50°-60°	2571.8	24.6
60°-70°	2848.5	27.2
70°-80°	1180.4	11.3
80°-90°	129.9	1.2
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°	10460.7	100.0
0°-180°	10460.7	100.0

Coefficient of Utilization



REPORT NUMBER: P484514

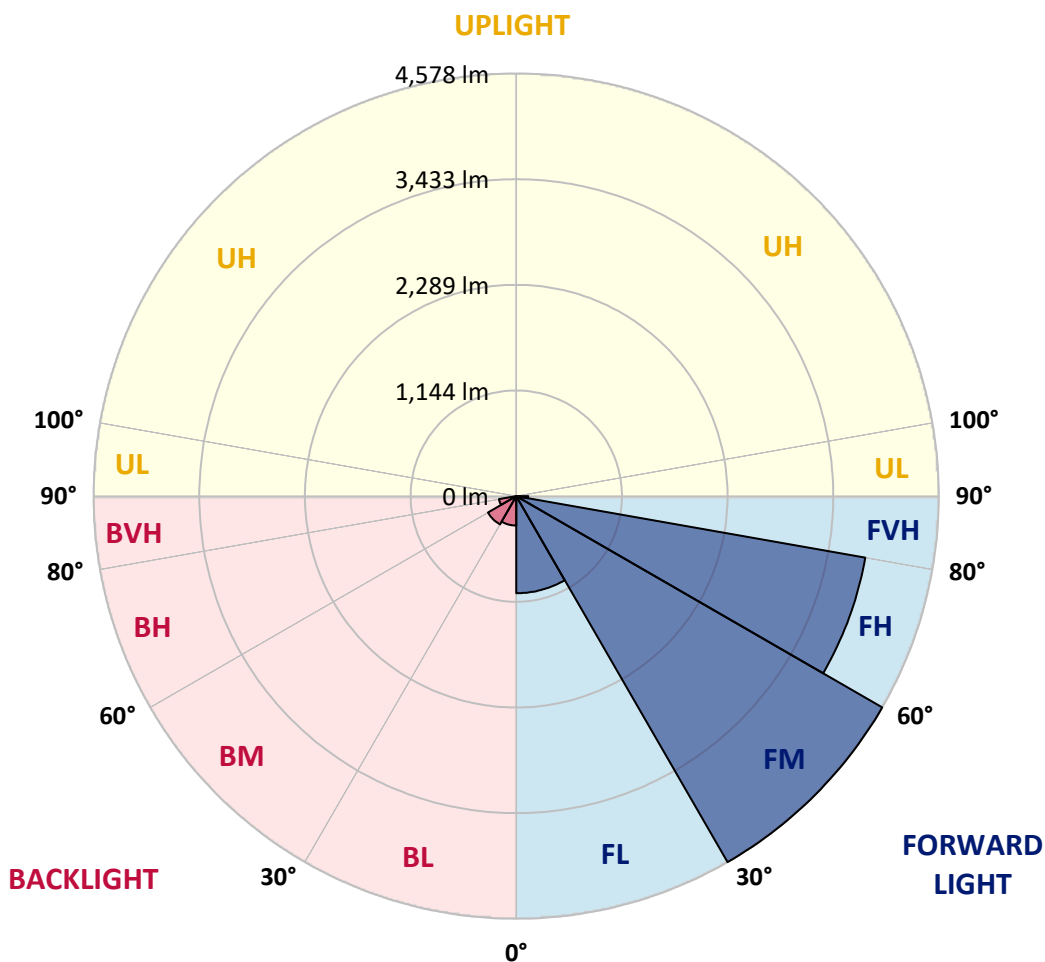
CATALOG NUMBER: IFLD-S-SA3B-827-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1051.6	10.1			
FM (30°-60°)	4577.8	43.8			
FH (60°-80°)	3838.8	36.7			G2/5000
FVH (80°-90°)	127.8	1.2			G2/225
BL (0°-30°)	318.5	3.0	B1/500		
BM (30°-60°)	354.0	3.4	B1/1000		
BH (60°-80°)	190.1	1.8	B1/500		G1/500
BVH (80°-90°)	2.1	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-G2

Type III Short





REPORT NUMBER: P484514

CATALOG NUMBER: IFLD-S-SA3B-827-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2963.7	2963.7	2963.7	2963.7	2963.7	2963.7	2963.7	2963.7	2963.7	2963.7	2963.7
2.5°	3224.7	3235.9	3245.6	3227.5	3242.8	3220.6	3163.6	3151.1	3141.4	3056.7	3008.1
5°	3223.4	3210.9	3220.6	3228.9	3208.1	3224.7	3210.9	3212.2	3174.7	3098.4	2962.3
7.5°	3008.1	3002.5	3008.1	3048.4	3094.2	3130.3	3151.1	3172.0	3147.0	3033.1	2901.2
10°	2717.8	2745.6	2760.9	2833.1	2903.9	2970.6	3035.9	3074.8	3067.8	3022.0	2834.5
12.5°	2515.1	2506.7	2562.3	2609.5	2680.3	2815.1	2928.9	2965.0	3006.7	2942.8	2747.0
15°	2327.6	2305.4	2338.7	2420.6	2541.5	2648.4	2808.1	2862.3	2915.0	2931.7	2699.8
17.5°	2148.4	2159.6	2194.3	2267.9	2381.8	2531.7	2681.7	2759.5	2885.9	2863.7	2629.0
20°	2062.3	2085.9	2098.4	2135.9	2215.1	2365.1	2588.7	2651.2	2785.9	2862.3	2559.5
22.5°	2066.5	2066.5	2037.3	2059.6	2131.8	2248.4	2462.3	2531.7	2745.6	2790.1	2497.0
25°	2110.9	2083.2	2084.6	2058.2	2088.7	2152.6	2348.4	2433.1	2663.7	2797.0	2463.7
27.5°	2144.3	2138.7	2130.4	2123.4	2084.6	2094.3	2273.4	2342.9	2631.7	2788.7	2412.3
30°	2265.1	2240.1	2231.8	2216.5	2165.1	2117.9	2213.7	2301.2	2606.7	2808.1	2383.1
32.5°	2366.5	2370.6	2377.6	2333.1	2288.7	2172.1	2230.4	2299.8	2588.7	2852.6	2412.3
35°	2494.2	2512.3	2515.1	2501.2	2454.0	2338.7	2299.8	2359.5	2619.2	2931.7	2415.1
37.5°	2688.7	2669.2	2722.0	2727.6	2694.2	2541.5	2460.9	2484.5	2709.5	3058.1	2520.6
40°	2815.1	2838.7	2937.3	2998.4	2941.4	2802.6	2694.2	2690.1	2840.1	3256.7	2651.2
42.5°	2955.3	3008.1	3116.4	3248.4	3241.4	3112.3	3002.5	2984.5	3072.0	3544.2	2858.1
45°	3147.0	3194.2	3345.6	3544.2	3652.5	3542.8	3377.5	3341.4	3353.9	3935.8	3210.9
47.5°	3465.0	3452.5	3670.5	3866.4	4044.1	3959.4	3888.6	3783.0	3773.3	4396.9	3698.3
50°	3824.7	3821.9	4016.3	4238.6	4444.1	4609.4	4491.3	4376.0	4378.8	5023.2	4271.9
52.5°	4166.3	4220.5	4430.2	4651.0	5003.8	5181.5	5295.4	5249.6	5028.8	5582.9	4885.7
55°	4346.9	4394.1	4602.4	4982.9	5539.8	5996.7	6305.1	6266.2	5839.8	6213.4	5491.2
57.5°	4176.1	4208.0	4489.9	4988.5	5914.8	6934.2	7230.0	7181.4	6678.6	6695.3	6223.1
60°	3460.8	3510.8	3930.2	4514.9	5769.0	7656.3	8503.5	8429.9	7442.5	7305.0	6693.9
62.5°	2397.0	2430.4	2774.8	3502.5	5077.4	7907.7	9706.2	9746.5	8248.0	7779.9	6834.2
65°	1552.7	1549.9	1747.1	2240.1	3598.3	7146.7	10417.2	10667.2	9025.7	7852.2	6791.1
67°	1097.1	1093.0	1186.0	1519.3	2491.5	5888.4	10404.7	10942.2	9447.9	7873.0	6392.5
67.5°	1012.4	1008.3	1097.1	1397.1	2248.4	5476.0	10249.2	10800.5	9596.5	7843.8	6217.6
70°	786.0	774.9	808.3	962.4	1309.6	3541.4	8771.5	9921.4	9288.2	7116.1	4964.9
72.5°	568.0	580.5	633.3	790.2	1027.7	1905.4	6685.6	8023.0	7757.7	5363.5	3155.3
75°	395.8	406.9	491.6	644.4	943.0	1155.5	4520.5	5819.0	5403.7	2960.9	1344.3
77.5°	206.9	220.8	313.9	515.2	856.9	894.4	2701.2	3690.0	2863.7	1054.1	370.8
80°	95.8	102.8	156.9	365.2	716.6	786.0	1574.9	2052.6	1145.7	236.1	127.8
82.5°	41.7	45.8	72.2	209.7	508.3	687.4	974.9	1076.3	415.2	76.4	79.2
85°	8.3	9.7	27.8	111.1	245.8	416.6	684.7	638.8	208.3	37.5	62.5
87.5°	0.0	0.0	6.9	31.9	66.7	123.6	290.3	290.3	63.9	19.4	23.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484514

CATALOG NUMBER: IFLD-S-SA3B-827-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2963.7	2963.7	2963.7	2963.7	2963.7	2963.7	2963.7	2963.7	2963.7	2963.7	2963.7
2.5°	2965.0	2915.0	2805.3	2704.0	2631.7	2549.8	2441.5	2392.9	2374.8	2349.8	2312.3
5°	2887.3	2826.2	2638.7	2449.8	2242.9	2085.9	1919.3	1822.1	1748.5	1702.6	1687.4
7.5°	2777.6	2652.6	2399.8	2097.1	1829.0	1595.7	1342.9	1172.1	1062.4	1018.0	976.3
10°	2690.1	2527.6	2142.9	1766.5	1409.6	1068.0	783.3	633.3	519.4	476.4	470.8
12.5°	2576.2	2381.8	1902.6	1429.1	980.5	636.1	433.3	376.4	344.4	338.9	334.7
15°	2481.7	2249.8	1674.9	1106.9	634.7	397.2	337.5	323.6	315.3	312.5	313.9
17.5°	2417.9	2108.2	1441.6	805.5	418.0	325.0	311.1	302.8	298.6	297.2	293.0
20°	2291.5	1988.7	1211.0	563.8	326.4	300.0	288.9	281.9	277.8	276.4	275.0
22.5°	2219.3	1837.4	980.5	393.0	290.3	272.2	263.9	258.3	251.4	247.2	245.8
25°	2147.1	1726.3	774.9	305.5	263.9	251.4	238.9	231.9	220.8	215.3	213.9
27.5°	2062.3	1616.5	597.2	265.3	237.5	225.0	212.5	201.4	187.5	181.9	179.2
30°	2013.7	1509.6	450.0	237.5	218.0	201.4	186.1	172.2	156.9	147.2	144.4
32.5°	1988.7	1412.4	337.5	216.6	197.2	179.2	159.7	143.0	129.2	120.8	119.4
35°	1958.2	1318.0	265.3	197.2	177.8	158.3	138.9	122.2	108.3	101.4	98.6
37.5°	1990.1	1262.4	220.8	181.9	162.5	140.3	119.4	102.8	91.7	84.7	83.3
40°	2077.6	1216.6	191.7	168.0	147.2	123.6	104.2	87.5	77.8	72.2	69.4
42.5°	2212.3	1216.6	173.6	154.2	133.3	108.3	88.9	76.4	66.7	61.1	59.7
45°	2456.7	1254.1	158.3	140.3	116.7	93.0	76.4	63.9	54.2	48.6	47.2
47.5°	2799.8	1340.2	145.8	127.8	104.2	81.9	66.7	54.2	44.4	38.9	37.5
50°	3260.9	1536.0	133.3	112.5	93.0	70.8	55.6	43.1	34.7	29.2	27.8
52.5°	3835.8	1813.7	120.8	104.2	79.2	59.7	44.4	34.7	26.4	22.2	20.8
55°	4444.1	2154.0	105.5	93.0	68.1	50.0	36.1	26.4	19.4	16.7	15.3
57.5°	5056.5	2416.5	93.0	80.5	55.6	40.3	29.2	20.8	13.9	11.1	9.7
60°	5381.5	2441.5	80.5	66.7	44.4	31.9	22.2	15.3	9.7	6.9	5.6
62.5°	5431.5	2219.3	69.4	54.2	36.1	25.0	15.3	11.1	5.6	2.8	2.8
65°	5174.6	1849.9	59.7	43.1	27.8	18.1	11.1	6.9	2.8	1.4	0.0
67°	4758.0	1549.9	51.4	36.1	22.2	13.9	8.3	4.2	1.4	0.0	0.0
67.5°	4596.9	1466.6	48.6	33.3	20.8	12.5	6.9	4.2	1.4	0.0	0.0
70°	3567.8	1047.1	36.1	23.6	15.3	9.7	5.6	2.8	0.0	0.0	0.0
72.5°	2185.9	612.5	27.8	16.7	11.1	6.9	4.2	1.4	0.0	0.0	0.0
75°	916.6	211.1	23.6	12.5	8.3	4.2	2.8	1.4	0.0	0.0	0.0
77.5°	238.9	79.2	16.7	8.3	5.6	4.2	2.8	1.4	0.0	0.0	0.0
80°	97.2	36.1	11.1	5.6	5.6	4.2	2.8	1.4	0.0	0.0	0.0
82.5°	63.9	16.7	6.9	5.6	4.2	2.8	1.4	0.0	0.0	0.0	0.0
85°	48.6	9.7	4.2	4.2	2.8	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	20.8	5.6	4.2	2.8	2.8	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)