

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: P484533

Luminaire Tested: **IFLD-M-SA4A-827-U-SL3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484533
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-827-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

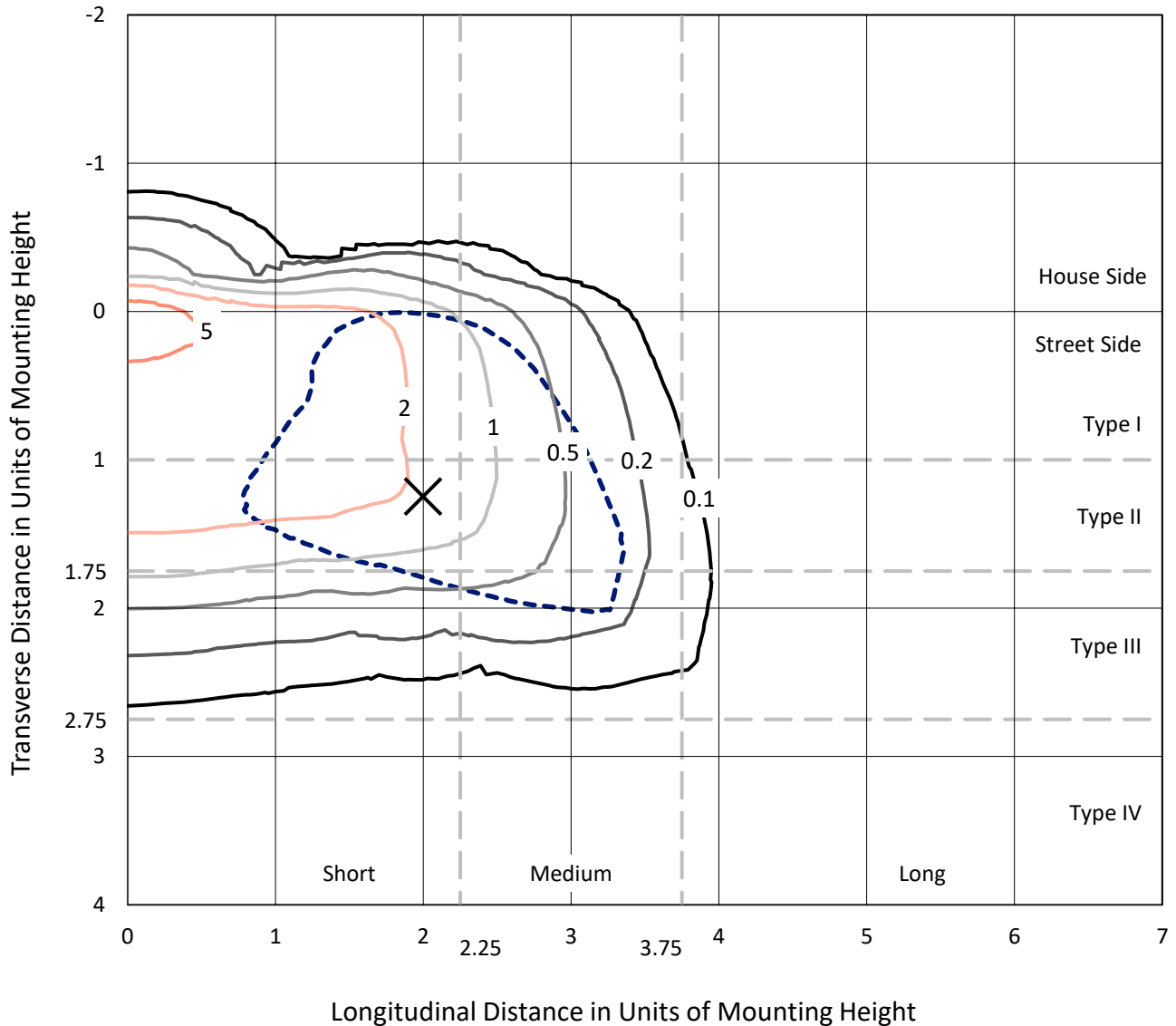
Lumens per Lamp: N/A
Luminaire Lumens: 11353 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

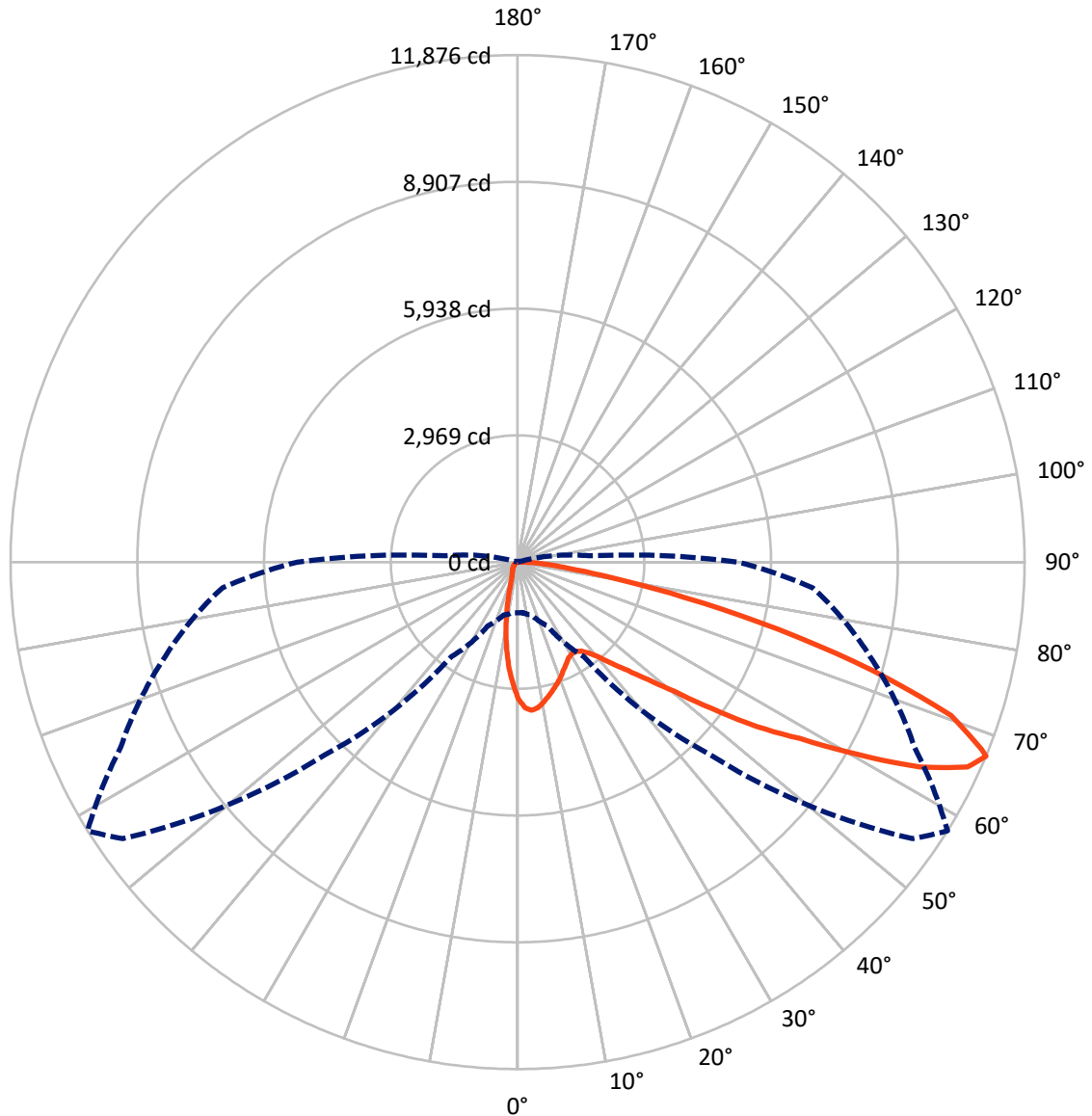
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	938.4	0.0	938.4
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	10414.6	0.0	10414.6
	% Fixture	91.7	0.0	91.7
Total	Lumens	11353.0	0.0	11353.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.2	2.2
10°-20°	529.4	4.7
20°-30°	702.3	6.2
30°-40°	973.2	8.6
40°-50°	1588.0	14.0
50°-60°	2791.2	24.6
60°-70°	3091.5	27.2
70°-80°	1281.1	11.3
80°-90°	141.0	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°	11353.0	100.0
0°-180°	11353.0	100.0

Coefficient of Utilization



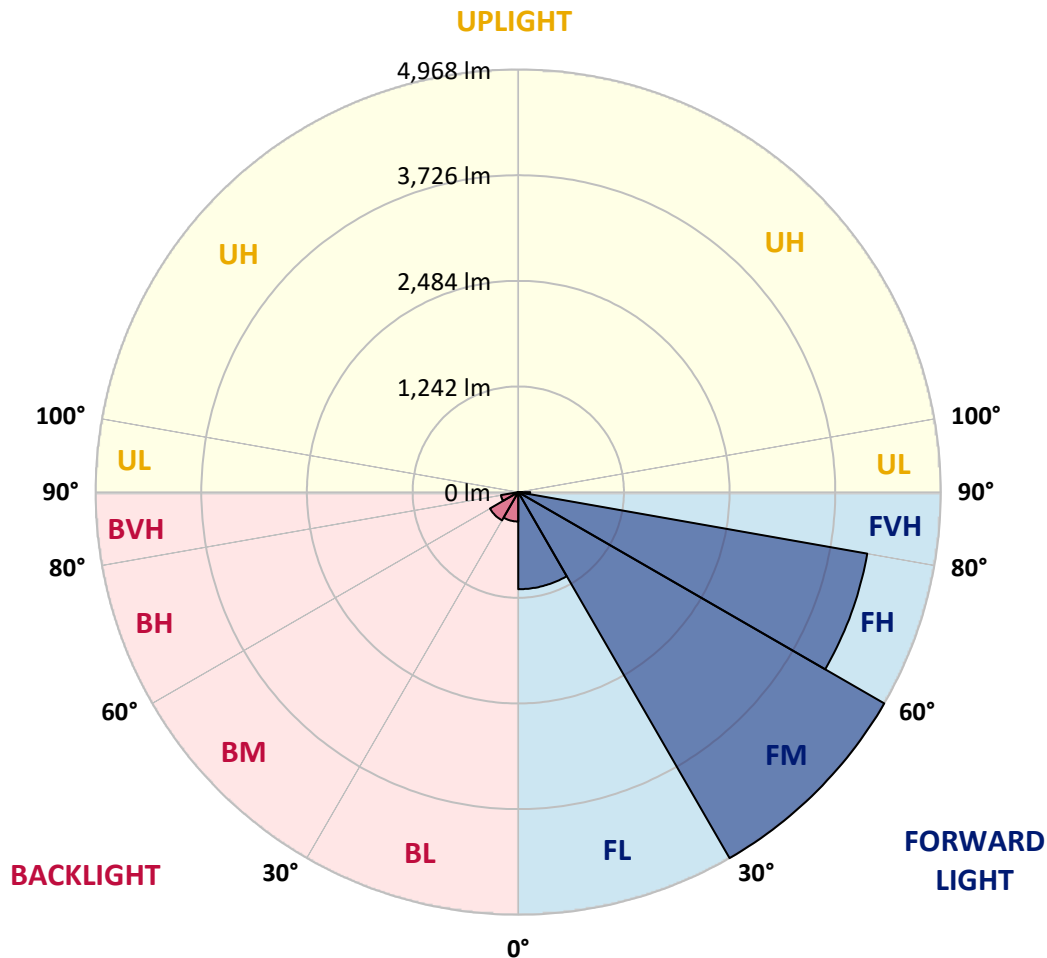
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1141.3	10.1			
FM	(30°-60°)	4968.3	43.8			
FH	(60°-80°)	4166.3	36.7			G2/5000
FVH	(80°-90°)	138.7	1.2			G2/225
BL	(0°-30°)	345.6	3.0	B1/500		
BM	(30°-60°)	384.1	3.4	B1/1000		
BH	(60°-80°)	206.3	1.8	B1/500		G1/500
BVH	(80°-90°)	2.3	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3216.5	3216.5	3216.5	3216.5	3216.5	3216.5	3216.5	3216.5	3216.5	3216.5	3216.5
2.5°	3499.8	3511.9	3522.4	3502.8	3519.4	3495.3	3433.5	3419.9	3409.4	3317.4	3264.7
5°	3498.3	3484.8	3495.3	3504.3	3481.7	3499.8	3484.8	3486.3	3445.6	3362.7	3215.0
7.5°	3264.7	3258.7	3264.7	3308.4	3358.1	3397.3	3419.9	3442.5	3415.4	3291.8	3148.6
10°	2949.7	2979.8	2996.4	3074.8	3151.7	3224.0	3294.8	3337.0	3329.5	3279.8	3076.3
12.5°	2729.6	2720.6	2780.9	2832.1	2909.0	3055.2	3178.8	3218.0	3263.2	3193.9	2981.3
15°	2526.1	2502.0	2538.2	2627.1	2758.3	2874.3	3047.7	3106.4	3163.7	3181.8	2930.1
17.5°	2331.7	2343.8	2381.4	2461.3	2584.9	2747.7	2910.5	2994.9	3132.1	3107.9	2853.2
20°	2238.3	2263.9	2277.4	2318.1	2404.1	2566.8	2809.5	2877.3	3023.5	3106.4	2777.9
22.5°	2242.8	2242.8	2211.1	2235.2	2313.6	2440.2	2672.3	2747.7	2979.8	3028.1	2710.0
25°	2291.0	2260.9	2262.4	2233.7	2266.9	2336.2	2548.8	2640.7	2890.9	3035.6	2673.9
27.5°	2327.2	2321.2	2312.1	2304.6	2262.4	2272.9	2467.4	2542.7	2856.2	3026.5	2618.1
30°	2458.3	2431.2	2422.1	2405.6	2349.8	2298.5	2402.5	2497.5	2829.1	3047.7	2586.4
32.5°	2568.3	2572.9	2580.4	2532.2	2483.9	2357.3	2420.6	2496.0	2809.5	3095.9	2618.1
35°	2707.0	2726.6	2729.6	2714.5	2663.3	2538.2	2496.0	2560.8	2842.7	3181.8	2621.1
37.5°	2918.0	2896.9	2954.2	2960.2	2924.1	2758.3	2670.8	2696.5	2940.6	3319.0	2735.7
40°	3055.2	3080.8	3187.8	3254.1	3192.3	3041.6	2924.1	2919.5	3082.3	3534.5	2877.3
42.5°	3207.4	3264.7	3382.3	3525.4	3517.9	3377.7	3258.7	3239.1	3334.0	3846.5	3101.9
45°	3415.4	3466.7	3631.0	3846.5	3964.1	3845.0	3665.6	3626.4	3640.0	4271.5	3484.8
47.5°	3760.6	3747.0	3983.7	4196.2	4389.1	4297.2	4220.3	4105.7	4095.2	4771.9	4013.8
50°	4151.0	4147.9	4359.0	4600.1	4823.2	5002.5	4874.4	4749.3	4752.3	5451.7	4636.3
52.5°	4521.7	4580.5	4808.1	5047.8	5430.6	5623.5	5747.1	5697.4	5457.7	6059.1	5302.5
55°	4717.7	4768.9	4995.0	5408.0	6012.4	6508.3	6842.9	6800.7	6338.0	6743.4	5959.6
57.5°	4532.3	4567.0	4872.9	5414.0	6419.4	7525.7	7846.7	7794.0	7248.3	7266.4	6754.0
60°	3756.1	3810.3	4265.5	4900.1	6261.1	8309.4	9228.9	9149.0	8077.3	7928.1	7264.9
62.5°	2601.5	2637.7	3011.5	3801.3	5510.5	8582.3	10534.1	10577.9	8951.5	8443.6	7417.2
65°	1685.1	1682.1	1896.1	2431.2	3905.3	7756.3	11305.9	11577.2	9795.6	8522.0	7370.4
67°	1190.7	1186.2	1287.2	1648.9	2704.0	6390.7	11292.3	11875.6	10253.8	8544.6	6937.9
67.5°	1098.8	1094.3	1190.7	1516.3	2440.2	5943.1	11123.5	11721.9	10415.1	8512.9	6747.9
70°	853.1	841.0	877.2	1044.5	1421.3	3843.5	9519.8	10767.8	10080.5	7723.1	5388.4
72.5°	616.5	630.0	687.3	857.6	1115.4	2067.9	7255.9	8707.4	8419.5	5821.0	3424.5
75°	429.6	441.6	533.6	699.4	1023.4	1254.0	4906.1	6315.4	5864.7	3213.4	1459.0
77.5°	224.6	239.7	340.6	559.2	930.0	970.7	2931.6	4004.8	3107.9	1144.0	402.4
80°	104.0	111.5	170.3	396.4	777.7	853.1	1709.2	2227.7	1243.5	256.2	138.7
82.5°	45.2	49.7	78.4	227.6	551.7	746.1	1058.1	1168.1	450.7	82.9	85.9
85°	9.0	10.6	30.1	120.6	266.8	452.2	743.1	693.3	226.1	40.7	67.8
87.5°	0.0	0.0	7.5	34.7	72.3	134.1	315.0	315.0	69.3	21.1	25.6
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°	3216.5	3216.5	3216.5	3216.5	3216.5	3216.5	3216.5	3216.5	3216.5	3216.5	3216.5
2.5°	3218.0	3163.7	3044.6	2934.6	2856.2	2767.3	2649.7	2597.0	2577.4	2550.3	2509.6
5°	3133.6	3067.2	2863.8	2658.8	2434.2	2263.9	2083.0	1977.5	1897.6	1847.9	1831.3
7.5°	3014.5	2878.8	2604.5	2275.9	1985.0	1731.8	1457.5	1272.1	1153.0	1104.8	1059.6
10°	2919.5	2743.2	2325.7	1917.2	1529.9	1159.1	850.1	687.3	563.7	517.0	511.0
12.5°	2795.9	2584.9	2064.9	1551.0	1064.1	690.3	470.3	408.5	373.8	367.8	363.2
15°	2693.4	2441.7	1817.7	1201.3	688.8	431.1	366.3	351.2	342.1	339.1	340.6
17.5°	2624.1	2288.0	1564.5	874.2	453.7	352.7	337.6	328.6	324.1	322.6	318.0
20°	2487.0	2158.4	1314.3	611.9	354.2	325.6	313.5	306.0	301.4	299.9	298.4
22.5°	2408.6	1994.1	1064.1	426.6	315.0	295.4	286.4	280.3	272.8	268.3	266.8
25°	2330.2	1873.5	841.0	331.6	286.4	272.8	259.2	251.7	239.7	233.6	232.1
27.5°	2238.3	1754.4	648.1	287.9	257.7	244.2	230.6	218.6	203.5	197.4	194.4
30°	2185.5	1638.4	488.3	257.7	236.6	218.6	202.0	186.9	170.3	159.8	156.8
32.5°	2158.4	1532.9	366.3	235.1	214.0	194.4	173.3	155.2	140.2	131.1	129.6
35°	2125.2	1430.4	287.9	214.0	192.9	171.8	150.7	132.6	117.6	110.0	107.0
37.5°	2159.9	1370.1	239.7	197.4	176.3	152.2	129.6	111.5	99.5	91.9	90.4
40°	2254.8	1320.3	208.0	182.4	159.8	134.1	113.0	95.0	84.4	78.4	75.4
42.5°	2401.0	1320.3	188.4	167.3	144.7	117.6	96.5	82.9	72.3	66.3	64.8
45°	2666.3	1361.0	171.8	152.2	126.6	101.0	82.9	69.3	58.8	52.8	51.2
47.5°	3038.6	1454.5	158.3	138.7	113.0	88.9	72.3	58.8	48.2	42.2	40.7
50°	3539.0	1667.0	144.7	122.1	101.0	76.9	60.3	46.7	37.7	31.7	30.1
52.5°	4163.0	1968.5	131.1	113.0	85.9	64.8	48.2	37.7	28.6	24.1	22.6
55°	4823.2	2337.7	114.6	101.0	73.9	54.3	39.2	28.6	21.1	18.1	16.6
57.5°	5487.9	2622.6	101.0	87.4	60.3	43.7	31.7	22.6	15.1	12.1	10.6
60°	5840.6	2649.7	87.4	72.3	48.2	34.7	24.1	16.6	10.6	7.5	6.0
62.5°	5894.8	2408.6	75.4	58.8	39.2	27.1	16.6	12.1	6.0	3.0	3.0
65°	5616.0	2007.7	64.8	46.7	30.1	19.6	12.1	7.5	3.0	1.5	0.0
67°	5163.8	1682.1	55.8	39.2	24.1	15.1	9.0	4.5	1.5	0.0	0.0
67.5°	4989.0	1591.7	52.8	36.2	22.6	13.6	7.5	4.5	1.5	0.0	0.0
70°	3872.1	1136.5	39.2	25.6	16.6	10.6	6.0	3.0	0.0	0.0	0.0
72.5°	2372.4	664.7	30.1	18.1	12.1	7.5	4.5	1.5	0.0	0.0	0.0
75°	994.8	229.1	25.6	13.6	9.0	4.5	3.0	1.5	0.0	0.0	0.0
77.5°	259.2	85.9	18.1	9.0	6.0	4.5	3.0	1.5	0.0	0.0	0.0
80°	105.5	39.2	12.1	6.0	6.0	4.5	3.0	1.5	0.0	0.0	0.0
82.5°	69.3	18.1	7.5	6.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0
85°	52.8	10.6	4.5	4.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	22.6	6.0	4.5	3.0	3.0	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)