

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: P484315

Luminaire Tested: **IFLD-S-SA2C-730-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484315
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-730-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

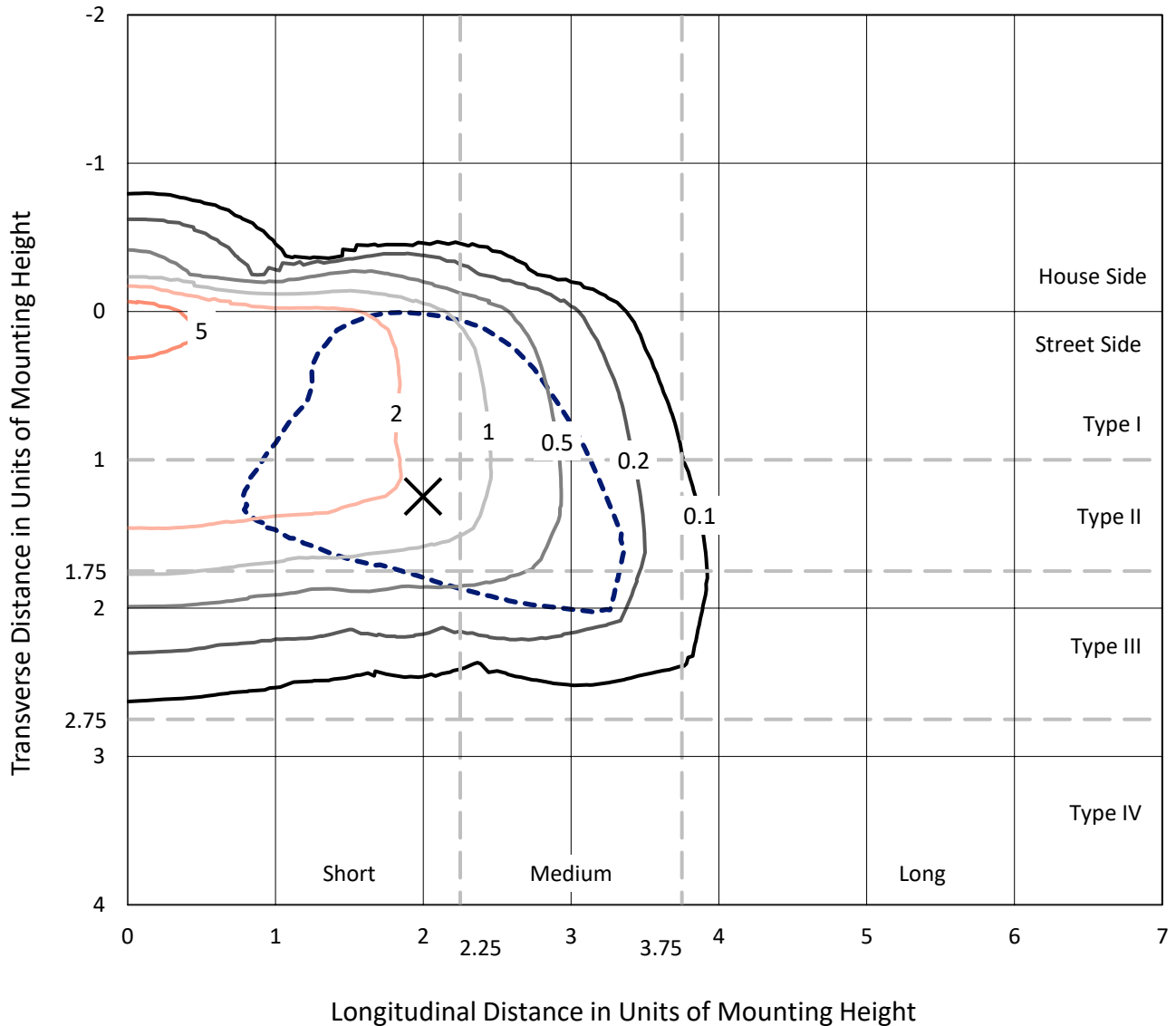
Lumens per Lamp: N/A
Luminaire Lumens: 10823.9 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
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

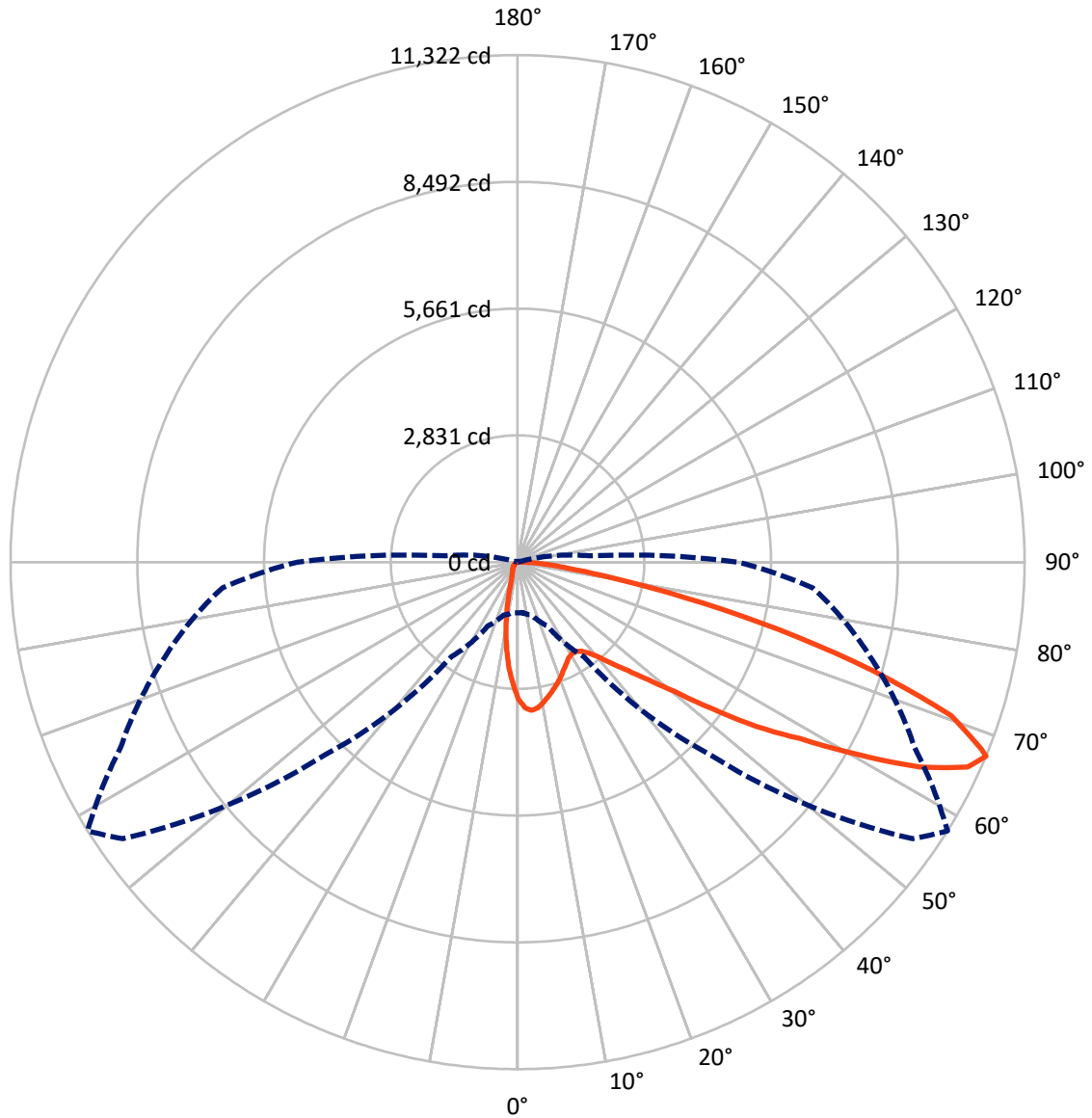
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.7 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	894.7	0.0	894.7
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	9929.3	0.0	9929.3
	% Fixture	91.7	0.0	91.7
Total	Lumens	10823.9	0.0	10823.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.3	2.2
10°-20°	504.7	4.7
20°-30°	669.6	6.2
30°-40°	927.9	8.6
40°-50°	1514.0	14.0
50°-60°	2661.1	24.6
60°-70°	2947.4	27.2
70°-80°	1221.4	11.3
80°-90°	134.5	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°	10823.9	100.0
0°-180°	10823.9	100.0

Coefficient of Utilization



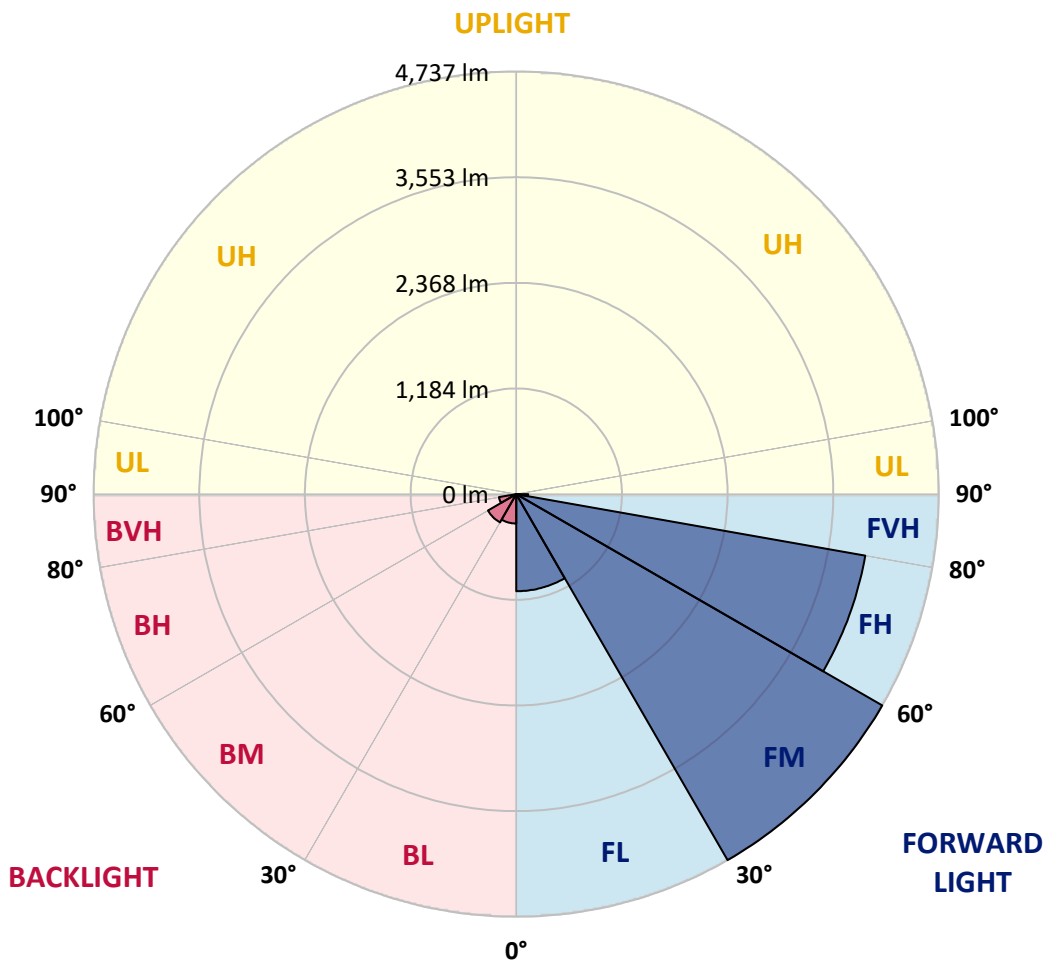
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1088.1	10.1			
FM (30°-60°)	4736.8	43.8			
FH (60°-80°)	3972.1	36.7			G2/5000
FVH (80°-90°)	132.2	1.2			G2/225
BL (0°-30°)	329.5	3.0	B1/500		
BM (30°-60°)	366.2	3.4	B1/1000		
BH (60°-80°)	196.7	1.8	B1/500		G1/500
BVH (80°-90°)	2.2	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3066.6	3066.6	3066.6	3066.6	3066.6	3066.6	3066.6	3066.6	3066.6	3066.6	3066.6
2.5°	3336.7	3348.2	3358.3	3339.6	3355.4	3332.4	3273.5	3260.6	3250.5	3162.8	3112.6
5°	3335.3	3322.4	3332.4	3341.0	3319.5	3336.7	3322.4	3323.8	3285.0	3206.0	3065.1
7.5°	3112.6	3106.8	3112.6	3154.2	3201.6	3239.0	3260.6	3282.1	3256.3	3138.4	3001.9
10°	2812.2	2841.0	2856.8	2931.5	3004.8	3073.8	3141.3	3181.5	3174.3	3126.9	2932.9
12.5°	2602.4	2593.8	2651.3	2700.1	2773.4	2912.8	3030.6	3068.0	3111.1	3045.0	2842.4
15°	2408.4	2385.4	2419.9	2504.7	2629.7	2740.4	2905.6	2961.7	3016.3	3033.5	2793.5
17.5°	2223.0	2234.5	2270.5	2346.6	2464.5	2619.7	2774.9	2855.3	2986.1	2963.1	2720.3
20°	2134.0	2158.4	2171.3	2210.1	2292.0	2447.2	2678.6	2743.2	2882.6	2961.7	2648.4
22.5°	2138.3	2138.3	2108.1	2131.1	2205.8	2326.5	2547.8	2619.7	2841.0	2886.9	2583.7
25°	2184.2	2155.5	2156.9	2129.6	2161.3	2227.4	2430.0	2517.6	2756.2	2894.1	2549.2
27.5°	2218.7	2213.0	2204.4	2197.2	2156.9	2167.0	2352.4	2424.2	2723.1	2885.5	2496.1
30°	2343.8	2317.9	2309.3	2293.5	2240.3	2191.4	2290.6	2381.1	2697.3	2905.6	2465.9
32.5°	2448.7	2453.0	2460.2	2414.2	2368.2	2247.5	2307.8	2379.7	2678.6	2951.6	2496.1
35°	2580.9	2599.5	2602.4	2588.0	2539.2	2419.9	2379.7	2441.5	2710.2	3033.5	2499.0
37.5°	2782.0	2761.9	2816.5	2822.3	2787.8	2629.7	2546.4	2570.8	2803.6	3164.3	2608.2
40°	2912.8	2937.2	3039.3	3102.5	3043.6	2899.9	2787.8	2783.5	2938.7	3369.8	2743.2
42.5°	3057.9	3112.6	3224.6	3361.2	3354.0	3220.3	3106.8	3088.1	3178.7	3667.2	2957.4
45°	3256.3	3305.1	3461.7	3667.2	3779.3	3665.8	3494.8	3457.4	3470.4	4072.5	3322.4
47.5°	3585.3	3572.4	3798.0	4000.6	4184.6	4096.9	4023.6	3914.4	3904.3	4549.6	3826.7
50°	3957.5	3954.6	4155.8	4385.7	4598.4	4769.4	4647.3	4528.0	4530.9	5197.6	4420.2
52.5°	4311.0	4367.1	4584.0	4812.5	5177.5	5361.5	5479.3	5431.9	5203.4	5776.8	5055.4
55°	4497.8	4546.7	4762.2	5156.0	5732.2	6205.0	6524.0	6483.8	6042.6	6429.2	5681.9
57.5°	4321.1	4354.1	4645.8	5161.7	6120.2	7175.0	7481.0	7430.8	6910.6	6927.8	6439.2
60°	3581.0	3632.7	4066.7	4671.7	5969.3	7922.2	8798.8	8722.6	7700.9	7558.6	6926.4
62.5°	2480.3	2514.8	2871.1	3624.1	5253.7	8182.3	10043.2	10084.9	8534.4	8050.1	7071.5
65°	1606.6	1603.7	1807.8	2317.9	3723.3	7394.8	10779.0	11037.6	9339.1	8124.8	7027.0
67°	1135.2	1130.9	1227.2	1572.1	2578.0	6092.9	10766.0	11322.2	9775.9	8146.4	6614.5
67.5°	1047.6	1043.3	1135.2	1445.6	2326.5	5666.1	10605.1	11175.6	9929.7	8116.2	6433.5
70°	813.3	801.8	836.3	995.8	1355.1	3664.4	9076.1	10266.0	9610.7	7363.2	5137.3
72.5°	587.7	600.7	655.3	817.7	1063.4	1971.6	6917.7	8301.6	8027.1	5549.7	3264.9
75°	409.5	421.0	508.7	666.8	975.7	1195.6	4677.5	6021.1	5591.4	3063.7	1391.0
77.5°	214.1	228.5	324.8	533.1	886.6	925.4	2795.0	3818.1	2963.1	1090.7	383.7
80°	99.2	106.3	162.4	377.9	741.5	813.3	1629.6	2123.9	1185.5	244.3	132.2
82.5°	43.1	47.4	74.7	217.0	525.9	711.3	1008.8	1113.7	429.7	79.0	81.9
85°	8.6	10.1	28.7	115.0	254.3	431.1	708.4	661.0	215.6	38.8	64.7
87.5°	0.0	0.0	7.2	33.1	69.0	127.9	300.3	300.3	66.1	20.1	24.4
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°	3066.6	3066.6	3066.6	3066.6	3066.6	3066.6	3066.6	3066.6	3066.6	3066.6	3066.6
2.5°	3068.0	3016.3	2902.8	2797.8	2723.1	2638.3	2526.3	2476.0	2457.3	2431.4	2392.6
5°	2987.5	2924.3	2730.3	2534.9	2320.8	2158.4	1985.9	1885.4	1809.2	1761.8	1746.0
7.5°	2874.0	2744.7	2483.1	2169.9	1892.5	1651.1	1389.6	1212.8	1099.3	1053.3	1010.2
10°	2783.5	2615.3	2217.3	1827.9	1458.6	1105.1	810.5	655.3	537.4	492.9	487.1
12.5°	2665.6	2464.5	1968.7	1478.7	1014.5	658.1	448.3	389.4	356.4	350.6	346.3
15°	2567.9	2327.9	1733.0	1145.3	656.7	411.0	349.2	334.8	326.2	323.3	324.8
17.5°	2501.8	2181.4	1491.6	833.5	432.5	336.3	321.9	313.3	309.0	307.5	303.2
20°	2371.1	2057.8	1253.1	583.4	337.7	310.4	298.9	291.7	287.4	286.0	284.5
22.5°	2296.3	1901.2	1014.5	406.7	300.3	281.7	273.0	267.3	260.1	255.8	254.3
25°	2221.6	1786.2	801.8	316.1	273.0	260.1	247.2	240.0	228.5	222.7	221.3
27.5°	2134.0	1672.7	617.9	274.5	245.7	232.8	219.9	208.4	194.0	188.2	185.4
30°	2083.7	1562.0	465.6	245.7	225.6	208.4	192.6	178.2	162.4	152.3	149.4
32.5°	2057.8	1461.4	349.2	224.2	204.1	185.4	165.3	148.0	133.6	125.0	123.6
35°	2026.2	1363.7	274.5	204.1	183.9	163.8	143.7	126.5	112.1	104.9	102.0
37.5°	2059.2	1306.2	228.5	188.2	168.1	145.1	123.6	106.3	94.8	87.7	86.2
40°	2149.8	1258.8	198.3	173.9	152.3	127.9	107.8	90.5	80.5	74.7	71.9
42.5°	2289.1	1258.8	179.6	159.5	138.0	112.1	92.0	79.0	69.0	63.2	61.8
45°	2542.1	1297.6	163.8	145.1	120.7	96.3	79.0	66.1	56.0	50.3	48.9
47.5°	2897.0	1386.7	150.9	132.2	107.8	84.8	69.0	56.0	46.0	40.2	38.8
50°	3374.1	1589.3	138.0	116.4	96.3	73.3	57.5	44.5	35.9	30.2	28.7
52.5°	3969.0	1876.7	125.0	107.8	81.9	61.8	46.0	35.9	27.3	23.0	21.6
55°	4598.4	2228.8	109.2	96.3	70.4	51.7	37.4	27.3	20.1	17.2	15.8
57.5°	5232.1	2500.4	96.3	83.3	57.5	41.7	30.2	21.6	14.4	11.5	10.1
60°	5568.4	2526.3	83.3	69.0	46.0	33.1	23.0	15.8	10.1	7.2	5.7
62.5°	5620.1	2296.3	71.9	56.0	37.4	25.9	15.8	11.5	5.7	2.9	2.9
65°	5354.3	1914.1	61.8	44.5	28.7	18.7	11.5	7.2	2.9	1.4	0.0
67°	4923.2	1603.7	53.2	37.4	23.0	14.4	8.6	4.3	1.4	0.0	0.0
67.5°	4756.5	1517.5	50.3	34.5	21.6	12.9	7.2	4.3	1.4	0.0	0.0
70°	3691.7	1083.5	37.4	24.4	15.8	10.1	5.7	2.9	0.0	0.0	0.0
72.5°	2261.8	633.7	28.7	17.2	11.5	7.2	4.3	1.4	0.0	0.0	0.0
75°	948.4	218.4	24.4	12.9	8.6	4.3	2.9	1.4	0.0	0.0	0.0
77.5°	247.2	81.9	17.2	8.6	5.7	4.3	2.9	1.4	0.0	0.0	0.0
80°	100.6	37.4	11.5	5.7	5.7	4.3	2.9	1.4	0.0	0.0	0.0
82.5°	66.1	17.2	7.2	5.7	4.3	2.9	1.4	0.0	0.0	0.0	0.0
85°	50.3	10.1	4.3	4.3	2.9	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	21.6	5.7	4.3	2.9	2.9	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)