

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: P484316

Luminaire Tested: **IFLD-S-SA2D-730-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484316
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-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

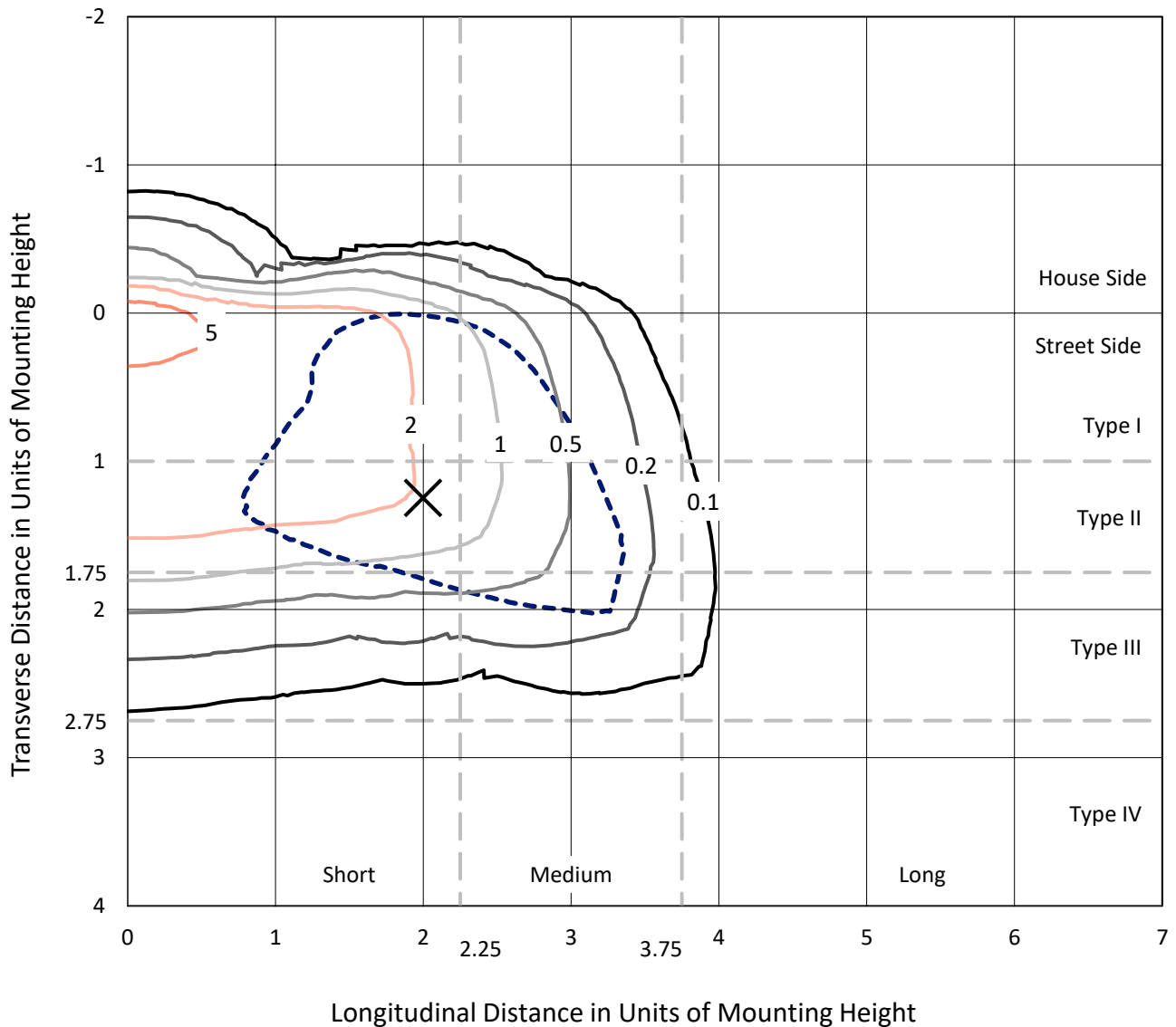
Lumens per Lamp: N/A
Luminaire Lumens: 11910 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
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

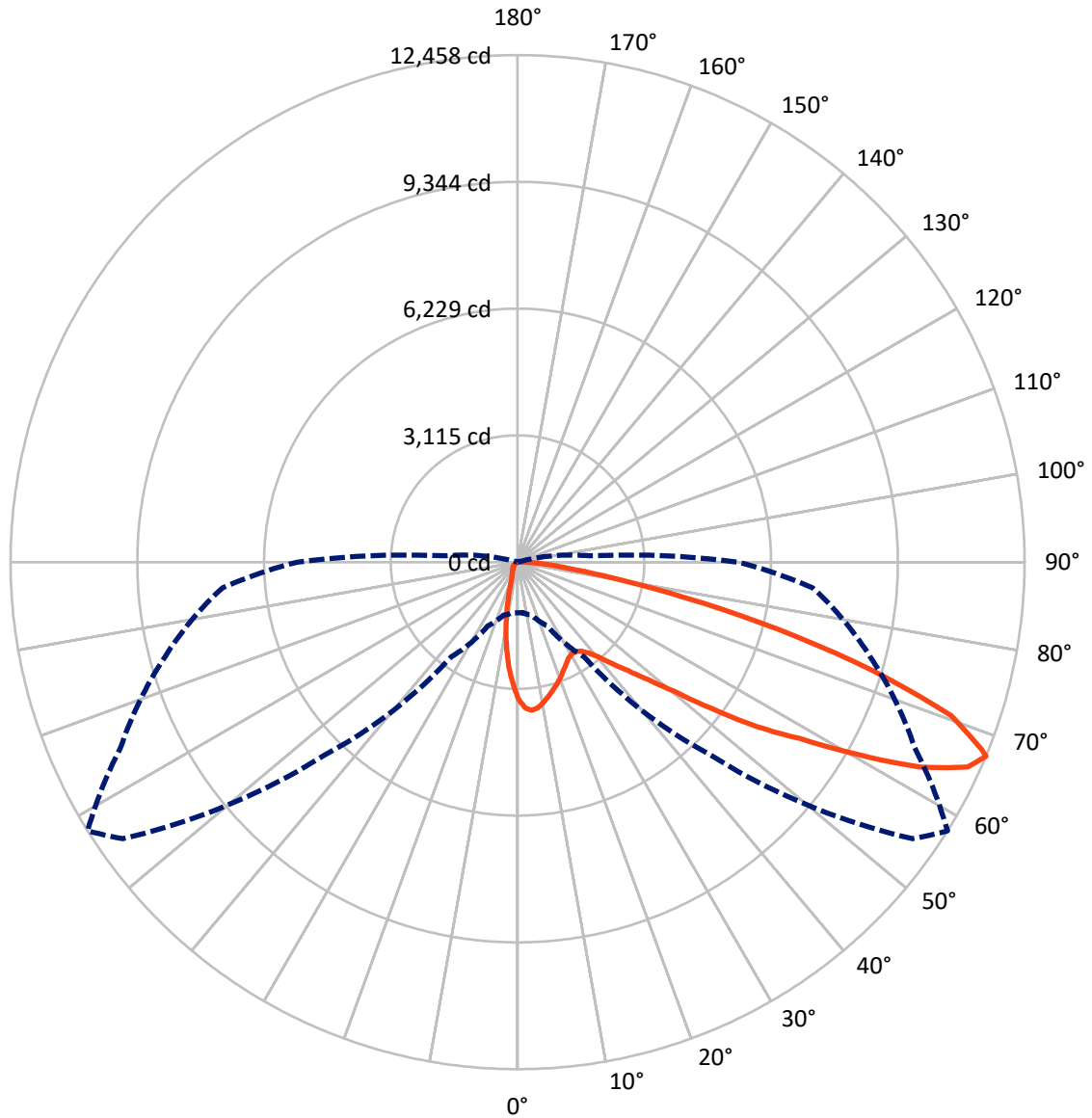
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.5 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	984.4	0.0	984.4
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	10925.5	0.0	10925.5
	% Fixture	91.7	0.0	91.7
Total	Lumens	11910.0	0.0	11910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.7	2.2
10°-20°	555.3	4.7
20°-30°	736.8	6.2
30°-40°	1021.0	8.6
40°-50°	1665.9	14.0
50°-60°	2928.1	24.6
60°-70°	3243.2	27.2
70°-80°	1344.0	11.3
80°-90°	147.9	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°	11910.0	100.0
0°-180°	11910.0	100.0

Coefficient of Utilization



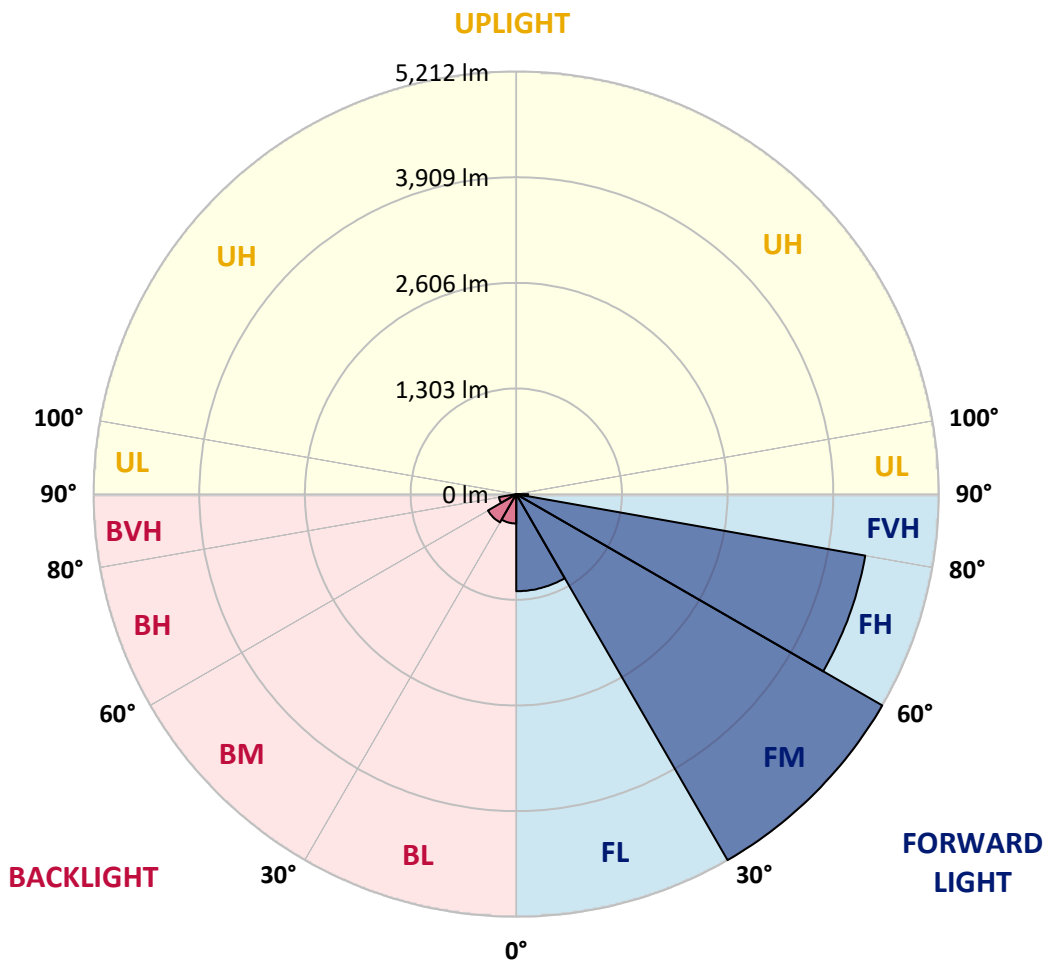
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1197.3	10.1			
FM (30°-60°)	5212.0	43.8			
FH (60°-80°)	4370.7	36.7			G2/5000
FVH (80°-90°)	145.5	1.2			G2/225
BL (0°-30°)	362.6	3.0	B1/500		
BM (30°-60°)	403.0	3.4	B1/1000		
BH (60°-80°)	216.4	1.8	B1/500		G1/500
BVH (80°-90°)	2.4	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°	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3
2.5°	3671.5	3684.2	3695.2	3674.7	3692.1	3666.8	3601.9	3587.7	3576.7	3480.2	3424.9
5°	3669.9	3655.7	3666.8	3676.3	3652.5	3671.5	3655.7	3657.3	3614.6	3527.6	3372.7
7.5°	3424.9	3418.5	3424.9	3470.7	3522.9	3564.0	3587.7	3611.4	3583.0	3453.3	3303.1
10°	3094.4	3126.0	3143.4	3225.6	3306.3	3382.2	3456.5	3500.8	3492.8	3440.7	3227.2
12.5°	2863.5	2854.0	2917.3	2971.1	3051.7	3205.1	3334.7	3375.8	3423.3	3350.5	3127.6
15°	2650.1	2624.8	2662.7	2756.0	2893.6	3015.3	3197.2	3258.8	3318.9	3337.9	3073.8
17.5°	2446.1	2458.7	2498.3	2582.1	2711.7	2882.5	3053.3	3141.8	3285.7	3260.4	2993.2
20°	2348.1	2374.9	2389.2	2431.9	2522.0	2692.8	2947.3	3018.5	3171.9	3258.8	2914.1
22.5°	2352.8	2352.8	2319.6	2344.9	2427.1	2559.9	2803.4	2882.5	3126.0	3176.6	2843.0
25°	2403.4	2371.8	2373.4	2343.3	2378.1	2450.8	2673.8	2770.2	3032.7	3184.5	2805.0
27.5°	2441.4	2435.0	2425.5	2417.6	2373.4	2384.4	2588.4	2667.5	2996.4	3175.0	2746.5
30°	2578.9	2550.5	2541.0	2523.6	2465.1	2411.3	2520.4	2620.0	2967.9	3197.2	2713.3
32.5°	2694.3	2699.1	2707.0	2656.4	2605.8	2473.0	2539.4	2618.4	2947.3	3247.8	2746.5
35°	2839.8	2860.4	2863.5	2847.7	2794.0	2662.7	2618.4	2686.4	2982.1	3337.9	2749.7
37.5°	3061.2	3039.0	3099.1	3105.5	3067.5	2893.6	2801.9	2828.7	3084.9	3481.8	2869.9
40°	3205.1	3232.0	3344.2	3413.8	3349.0	3190.8	3067.5	3062.8	3233.5	3707.9	3018.5
42.5°	3364.8	3424.9	3548.2	3698.4	3690.5	3543.4	3418.5	3398.0	3497.6	4035.2	3254.1
45°	3583.0	3636.7	3809.1	4035.2	4158.5	4033.6	3845.5	3804.3	3818.6	4481.1	3655.7
47.5°	3945.1	3930.8	4179.1	4402.0	4604.4	4508.0	4427.3	4307.2	4296.1	5006.0	4210.7
50°	4354.6	4351.4	4572.8	4825.8	5059.8	5248.0	5113.6	4982.3	4985.5	5719.2	4863.7
52.5°	4743.6	4805.2	5044.0	5295.4	5697.0	5899.4	6029.1	5976.9	5725.5	6356.4	5562.6
55°	4949.1	5002.9	5240.1	5673.3	6307.4	6827.6	7178.6	7134.3	6648.9	7074.2	6252.0
57.5°	4754.6	4791.0	5112.0	5679.6	6734.3	7894.9	8231.7	8176.3	7603.9	7622.9	7085.3
60°	3940.3	3997.2	4474.8	5140.4	6568.3	8717.1	9681.6	9597.8	8473.6	8317.1	7621.3
62.5°	2729.1	2767.1	3159.2	3987.8	5780.8	9003.3	11050.9	11096.8	9390.7	8857.8	7781.0
65°	1767.8	1764.6	1989.1	2550.5	4096.9	8136.8	11860.5	12145.1	10276.1	8940.0	7732.0
67°	1249.1	1244.4	1350.3	1729.8	2836.7	6704.2	11846.3	12458.2	10756.8	8963.8	7278.2
67.5°	1152.7	1147.9	1249.1	1590.7	2559.9	6234.6	11669.2	12296.9	10926.0	8930.6	7079.0
70°	895.0	882.3	920.3	1095.8	1491.1	4032.0	9986.8	11296.0	10575.0	8102.0	5652.8
72.5°	646.7	660.9	721.0	899.7	1170.1	2169.4	7611.8	9134.5	8832.5	6106.6	3592.5
75°	450.6	463.3	559.7	733.7	1073.6	1315.5	5146.8	6625.2	6152.4	3371.1	1530.6
77.5°	235.6	251.4	357.3	586.6	975.6	1018.3	3075.4	4201.2	3260.4	1200.1	422.2
80°	109.1	117.0	178.7	415.9	815.9	895.0	1793.1	2337.0	1304.5	268.8	145.5
82.5°	47.4	52.2	82.2	238.8	578.7	782.7	1110.0	1225.4	472.8	87.0	90.1
85°	9.5	11.1	31.6	126.5	279.9	474.4	779.5	727.3	237.2	42.7	71.2
87.5°	0.0	0.0	7.9	36.4	75.9	140.7	330.5	330.5	72.7	22.1	26.9
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°	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3	3374.3
2.5°	3375.8	3318.9	3194.0	3078.6	2996.4	2903.1	2779.7	2724.4	2703.8	2675.4	2632.7
5°	3287.3	3217.7	3004.3	2789.2	2553.6	2374.9	2185.2	2074.5	1990.7	1938.5	1921.1
7.5°	3162.4	3020.1	2732.3	2387.6	2082.4	1816.8	1529.0	1334.5	1209.6	1159.0	1111.6
10°	3062.8	2877.8	2439.8	2011.3	1604.9	1215.9	891.8	721.0	591.4	542.3	536.0
12.5°	2933.1	2711.7	2166.2	1627.0	1116.3	724.2	493.3	428.5	392.1	385.8	381.1
15°	2825.6	2561.5	1906.9	1260.2	722.6	452.2	384.2	368.4	358.9	355.8	357.3
17.5°	2752.9	2400.2	1641.3	917.1	475.9	370.0	354.2	344.7	340.0	338.4	333.6
20°	2609.0	2264.3	1378.8	642.0	371.6	341.5	328.9	321.0	316.2	314.7	313.1
22.5°	2526.7	2091.9	1116.3	447.5	330.5	309.9	300.4	294.1	286.2	281.5	279.9
25°	2444.5	1965.4	882.3	347.9	300.4	286.2	272.0	264.1	251.4	245.1	243.5
27.5°	2348.1	1840.5	679.9	302.0	270.4	256.2	241.9	229.3	213.5	207.1	204.0
30°	2292.7	1718.8	512.3	270.4	248.2	229.3	211.9	196.1	178.7	167.6	164.4
32.5°	2264.3	1608.1	384.2	246.7	224.5	204.0	181.8	162.9	147.1	137.6	136.0
35°	2229.5	1500.5	302.0	224.5	202.4	180.3	158.1	139.1	123.3	115.4	112.3
37.5°	2265.8	1437.3	251.4	207.1	185.0	159.7	136.0	117.0	104.4	96.5	94.9
40°	2365.5	1385.1	218.2	191.3	167.6	140.7	118.6	99.6	88.5	82.2	79.1
42.5°	2518.8	1385.1	197.6	175.5	151.8	123.3	101.2	87.0	75.9	69.6	68.0
45°	2797.1	1427.8	180.3	159.7	132.8	105.9	87.0	72.7	61.7	55.3	53.8
47.5°	3187.7	1525.8	166.0	145.5	118.6	93.3	75.9	61.7	50.6	44.3	42.7
50°	3712.6	1748.8	151.8	128.1	105.9	80.6	63.2	49.0	39.5	33.2	31.6
52.5°	4367.2	2065.0	137.6	118.6	90.1	68.0	50.6	39.5	30.0	25.3	23.7
55°	5059.8	2452.4	120.2	105.9	77.5	56.9	41.1	30.0	22.1	19.0	17.4
57.5°	5757.1	2751.3	105.9	91.7	63.2	45.9	33.2	23.7	15.8	12.6	11.1
60°	6127.1	2779.7	91.7	75.9	50.6	36.4	25.3	17.4	11.1	7.9	6.3
62.5°	6184.0	2526.7	79.1	61.7	41.1	28.5	17.4	12.6	6.3	3.2	3.2
65°	5891.5	2106.1	68.0	49.0	31.6	20.6	12.6	7.9	3.2	1.6	0.0
67°	5417.2	1764.6	58.5	41.1	25.3	15.8	9.5	4.7	1.6	0.0	0.0
67.5°	5233.7	1669.7	55.3	37.9	23.7	14.2	7.9	4.7	1.6	0.0	0.0
70°	4062.1	1192.2	41.1	26.9	17.4	11.1	6.3	3.2	0.0	0.0	0.0
72.5°	2488.8	697.3	31.6	19.0	12.6	7.9	4.7	1.6	0.0	0.0	0.0
75°	1043.6	240.3	26.9	14.2	9.5	4.7	3.2	1.6	0.0	0.0	0.0
77.5°	272.0	90.1	19.0	9.5	6.3	4.7	3.2	1.6	0.0	0.0	0.0
80°	110.7	41.1	12.6	6.3	6.3	4.7	3.2	1.6	0.0	0.0	0.0
82.5°	72.7	19.0	7.9	6.3	4.7	3.2	1.6	0.0	0.0	0.0	0.0
85°	55.3	11.1	4.7	4.7	3.2	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	23.7	6.3	4.7	3.2	3.2	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)