

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: P484319

Luminaire Tested: **IFLD-S-SA3B-730-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484319  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-730-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (48) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

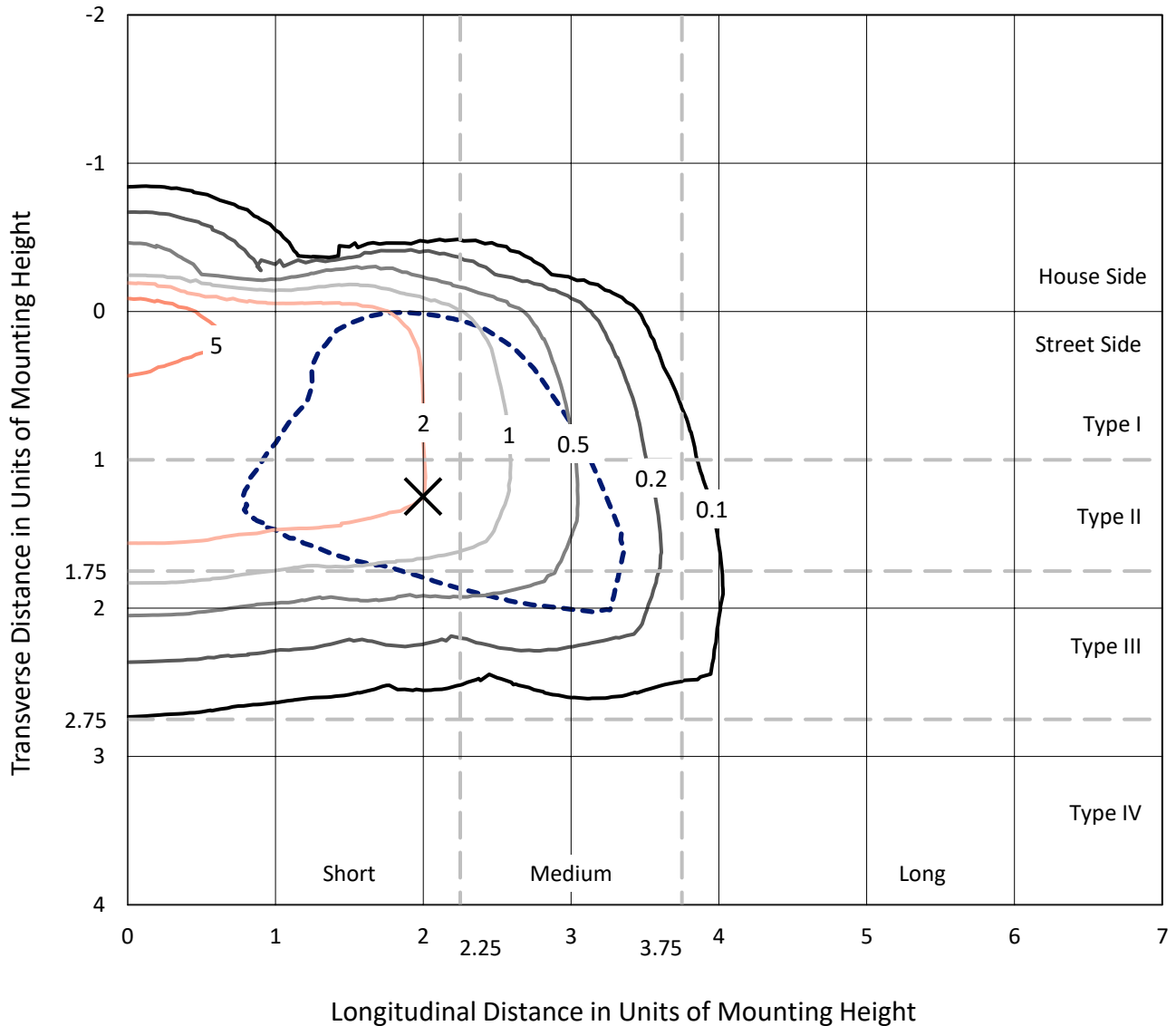
Lumens per Lamp: N/A  
Luminaire Lumens: 12958.1 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

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

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### Iso-Footcandle Lines of Horizontal Illumination

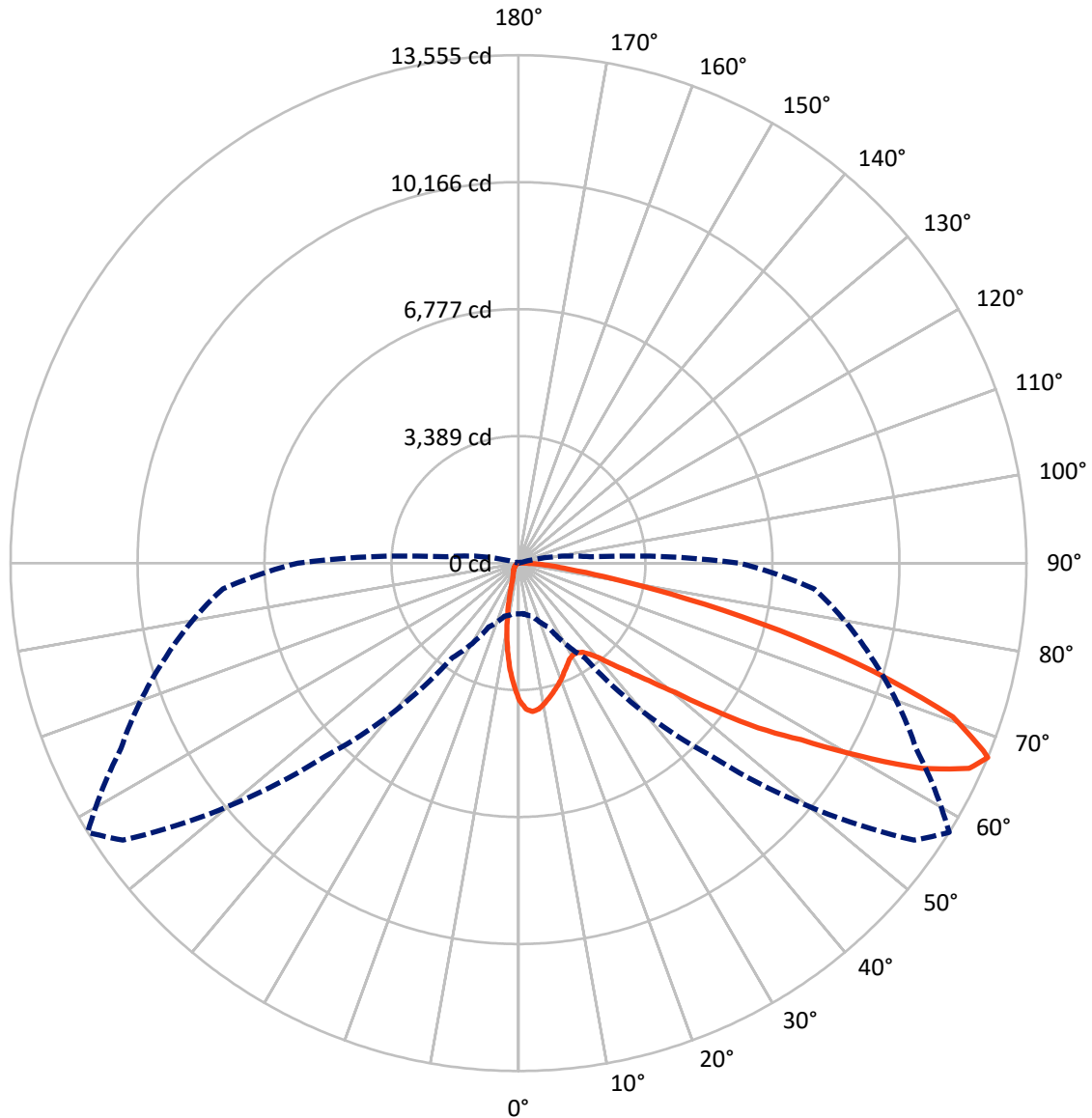
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.2 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
<b>House Side</b>	Lumens	1071.1	0.0	1071.1
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	11887.0	0.0	11887.0
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	12958.1	0.0	12958.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	291.3	2.2
10°-20°	604.2	4.7
20°-30°	801.6	6.2
30°-40°	1110.8	8.6
40°-50°	1812.5	14.0
50°-60°	3185.8	24.6
60°-70°	3528.6	27.2
70°-80°	1462.2	11.3
80°-90°	161.0	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°	12958.1	100.0
0°-180°	12958.1	100.0

**Coefficient of Utilization**

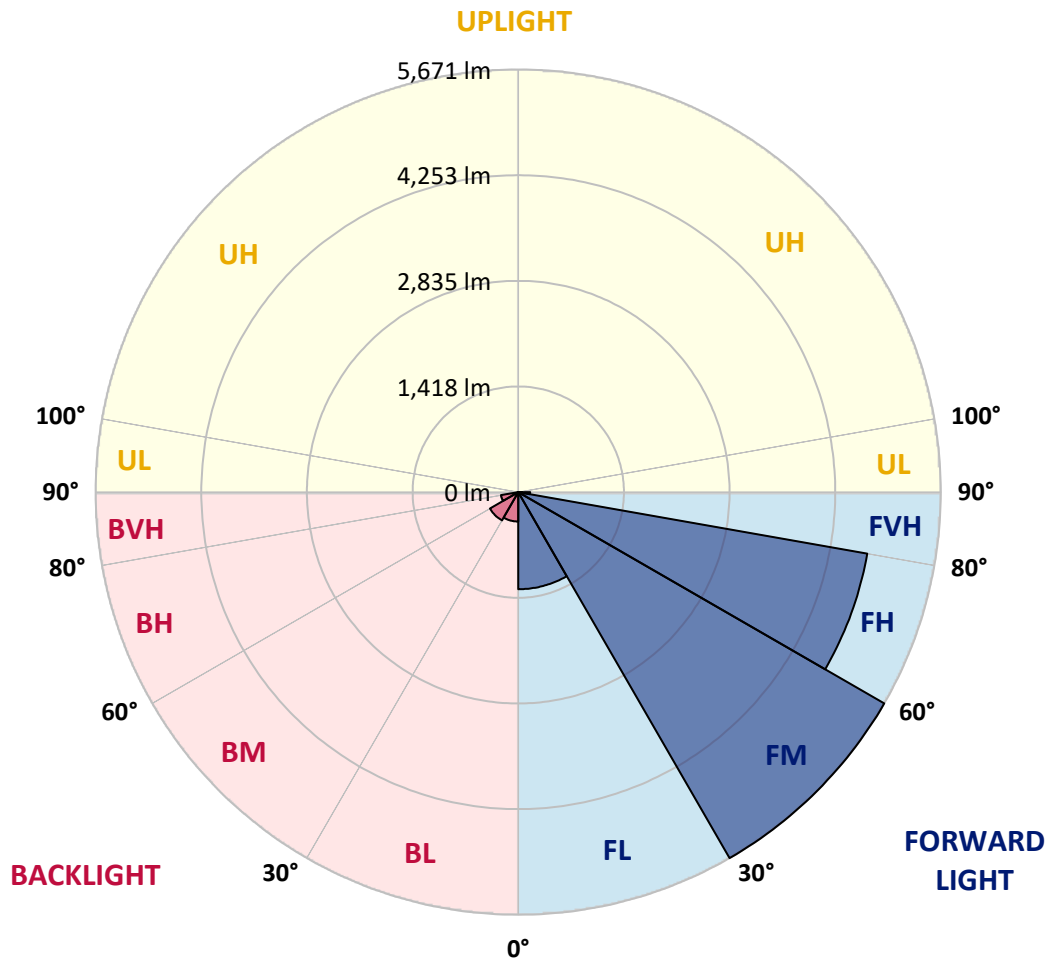


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1302.6	10.1			
FM (30°-60°)	5670.7	43.8			
FH (60°-80°)	4755.3	36.7			G2/5000
FVH (80°-90°)	158.3	1.2			G2/225
BL (0°-30°)	394.5	3.0	B1/500		
BM (30°-60°)	438.5	3.4	B1/1000		
BH (60°-80°)	235.5	1.8	B1/500		G1/500
BVH (80°-90°)	2.6	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°	3671.2	3671.2	3671.2	3671.2	3671.2	3671.2	3671.2	3671.2	3671.2	3671.2	3671.2
2.5°	3994.6	4008.4	4020.4	3998.1	4017.0	3989.5	3918.9	3903.5	3891.4	3786.5	3726.3
5°	3992.9	3977.4	3989.5	3999.8	3974.0	3994.6	3977.4	3979.1	3932.7	3838.1	3669.5
7.5°	3726.3	3719.4	3726.3	3776.1	3832.9	3877.6	3903.5	3929.3	3898.3	3757.2	3593.8
10°	3366.7	3401.1	3420.0	3509.5	3597.2	3679.8	3760.7	3808.8	3800.2	3743.5	3511.2
12.5°	3115.5	3105.2	3174.0	3232.5	3320.3	3487.1	3628.2	3672.9	3724.5	3645.4	3402.8
15°	2883.3	2855.8	2897.1	2998.6	3148.2	3280.7	3478.5	3545.6	3611.0	3631.6	3344.3
17.5°	2661.4	2675.1	2718.1	2809.3	2950.4	3136.2	3322.0	3418.3	3574.9	3547.3	3256.6
20°	2554.7	2584.0	2599.4	2645.9	2743.9	2929.7	3206.7	3284.1	3451.0	3545.6	3170.6
22.5°	2559.9	2559.9	2523.7	2551.3	2640.7	2785.2	3050.2	3136.2	3401.1	3456.2	3093.2
25°	2614.9	2580.5	2582.2	2549.5	2587.4	2666.5	2909.1	3014.0	3299.6	3464.8	3051.9
27.5°	2656.2	2649.3	2639.0	2630.4	2582.2	2594.3	2816.2	2902.2	3260.0	3454.4	2988.2
30°	2805.9	2774.9	2764.6	2745.7	2682.0	2623.5	2742.2	2850.6	3229.1	3478.5	2952.1
32.5°	2931.5	2936.6	2945.2	2890.2	2835.1	2690.6	2762.9	2848.9	3206.7	3533.6	2988.2
35°	3089.7	3112.1	3115.5	3098.3	3039.8	2897.1	2848.9	2922.9	3244.6	3631.6	2991.7
37.5°	3330.6	3306.5	3371.9	3378.7	3337.5	3148.2	3048.4	3077.7	3356.4	3788.2	3122.4
40°	3487.1	3516.4	3638.5	3714.2	3643.7	3471.6	3337.5	3332.3	3518.1	4034.2	3284.1
42.5°	3660.9	3726.3	3860.4	4023.9	4015.3	3855.3	3719.4	3697.0	3805.4	4390.3	3540.5
45°	3898.3	3956.8	4144.3	4390.3	4524.5	4388.6	4183.9	4139.1	4154.6	4875.4	3977.4
47.5°	4292.2	4276.8	4546.9	4789.4	5009.6	4904.7	4817.0	4686.2	4674.2	5446.6	4581.3
50°	4737.8	4734.4	4975.2	5250.5	5505.1	5709.8	5563.6	5420.8	5424.2	6222.5	5291.8
52.5°	5161.0	5228.1	5487.9	5761.4	6198.4	6418.6	6559.7	6502.9	6229.4	6915.8	6052.2
55°	5384.7	5443.2	5701.2	6172.6	6862.4	7428.4	7810.3	7762.2	7234.0	7696.8	6802.2
57.5°	5173.1	5212.6	5561.9	6179.5	7326.9	8589.7	8956.1	8895.9	8273.1	8293.8	7708.8
60°	4287.1	4349.0	4868.6	5592.8	7146.3	9484.2	10533.6	10442.5	9219.3	9049.0	8292.0
62.5°	2969.3	3010.6	3437.2	4338.7	6289.6	9795.6	12023.5	12073.3	10217.1	9637.3	8465.8
65°	1923.3	1919.9	2164.2	2774.9	4457.4	8852.9	12904.3	13213.9	11180.5	9726.8	8412.5
67°	1359.1	1353.9	1469.2	1882.1	3086.3	7294.2	12888.8	13554.6	11703.5	9752.6	7918.7
67.5°	1254.1	1249.0	1359.1	1730.7	2785.2	6783.3	12696.1	13379.1	11887.6	9716.5	7702.0
70°	973.7	959.9	1001.2	1192.2	1622.3	4386.9	10865.7	12290.1	11505.6	8815.0	6150.2
72.5°	703.6	719.1	784.5	978.9	1273.1	2360.3	8281.7	9938.4	9609.8	6644.0	3908.6
75°	490.3	504.1	609.0	798.2	1168.1	1431.3	5599.7	7208.2	6693.8	3667.8	1665.3
77.5°	256.3	273.5	388.8	638.2	1061.4	1107.9	3346.1	4570.9	3547.3	1305.7	459.3
80°	118.7	127.3	194.4	452.4	887.7	973.7	1950.9	2542.7	1419.3	292.5	158.3
82.5°	51.6	56.8	89.5	259.8	629.6	851.6	1207.7	1333.3	514.4	94.6	98.1
85°	10.3	12.0	34.4	137.6	304.5	516.1	848.1	791.4	258.1	46.4	77.4
87.5°	0.0	0.0	8.6	39.6	82.6	153.1	359.6	359.6	79.1	24.1	29.2
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°	3671.2	3671.2	3671.2	3671.2	3671.2	3671.2	3671.2	3671.2	3671.2	3671.2	3671.2
2.5°	3672.9	3611.0	3475.1	3349.5	3260.0	3158.5	3024.4	2964.1	2941.8	2910.8	2864.4
5°	3576.6	3500.9	3268.6	3034.7	2778.3	2584.0	2377.5	2257.1	2165.9	2109.1	2090.2
7.5°	3440.7	3285.8	2972.7	2597.7	2265.7	1976.7	1663.6	1452.0	1316.1	1261.0	1209.4
10°	3332.3	3131.0	2654.5	2188.3	1746.1	1322.9	970.3	784.5	643.4	590.1	583.2
12.5°	3191.2	2950.4	2356.9	1770.2	1214.6	787.9	536.7	466.2	426.6	419.8	414.6
15°	3074.2	2787.0	2074.7	1371.1	786.2	492.0	418.0	400.8	390.5	387.1	388.8
17.5°	2995.1	2611.5	1785.7	997.8	517.8	402.6	385.4	375.0	369.9	368.2	363.0
20°	2838.6	2463.5	1500.1	698.5	404.3	371.6	357.8	349.2	344.1	342.3	340.6
22.5°	2749.1	2276.0	1214.6	486.9	359.6	337.2	326.9	320.0	311.4	306.2	304.5
25°	2659.6	2138.4	959.9	378.5	326.9	311.4	295.9	287.3	273.5	266.7	264.9
27.5°	2554.7	2002.5	739.7	328.6	294.2	278.7	263.2	249.4	232.2	225.4	221.9
30°	2494.5	1870.0	557.4	294.2	270.1	249.4	230.5	213.3	194.4	182.4	178.9
32.5°	2463.5	1749.6	418.0	268.4	244.3	221.9	197.8	177.2	160.0	149.7	147.9
35°	2425.7	1632.6	328.6	244.3	220.2	196.1	172.0	151.4	134.2	125.6	122.1
37.5°	2465.2	1563.8	273.5	225.4	201.3	173.8	147.9	127.3	113.5	104.9	103.2
40°	2573.6	1507.0	237.4	208.2	182.4	153.1	129.0	108.4	96.3	89.5	86.0
42.5°	2740.5	1507.0	215.0	191.0	165.2	134.2	110.1	94.6	82.6	75.7	74.0
45°	3043.3	1553.5	196.1	173.8	144.5	115.3	94.6	79.1	67.1	60.2	58.5
47.5°	3468.2	1660.1	180.6	158.3	129.0	101.5	82.6	67.1	55.1	48.2	46.4
50°	4039.4	1902.7	165.2	139.3	115.3	87.7	68.8	53.3	43.0	36.1	34.4
52.5°	4751.6	2246.8	149.7	129.0	98.1	74.0	55.1	43.0	32.7	27.5	25.8
55°	5505.1	2668.2	130.7	115.3	84.3	61.9	44.7	32.7	24.1	20.6	18.9
57.5°	6263.8	2993.4	115.3	99.8	68.8	49.9	36.1	25.8	17.2	13.8	12.0
60°	6666.3	3024.4	99.8	82.6	55.1	39.6	27.5	18.9	12.0	8.6	6.9
62.5°	6728.3	2749.1	86.0	67.1	44.7	31.0	18.9	13.8	6.9	3.4	3.4
65°	6410.0	2291.5	74.0	53.3	34.4	22.4	13.8	8.6	3.4	1.7	0.0
67°	5893.9	1919.9	63.7	44.7	27.5	17.2	10.3	5.2	1.7	0.0	0.0
67.5°	5694.3	1816.7	60.2	41.3	25.8	15.5	8.6	5.2	1.7	0.0	0.0
70°	4419.6	1297.1	44.7	29.2	18.9	12.0	6.9	3.4	0.0	0.0	0.0
72.5°	2707.8	758.7	34.4	20.6	13.8	8.6	5.2	1.7	0.0	0.0	0.0
75°	1135.4	261.5	29.2	15.5	10.3	5.2	3.4	1.7	0.0	0.0	0.0
77.5°	295.9	98.1	20.6	10.3	6.9	5.2	3.4	1.7	0.0	0.0	0.0
80°	120.4	44.7	13.8	6.9	6.9	5.2	3.4	1.7	0.0	0.0	0.0
82.5°	79.1	20.6	8.6	6.9	5.2	3.4	1.7	0.0	0.0	0.0	0.0
85°	60.2	12.0	5.2	5.2	3.4	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	25.8	6.9	5.2	3.4	3.4	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)