

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: P484925

Luminaire Tested: **IFLD-M-SA4C-827-U-SL4-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P484925  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-827-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (64) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

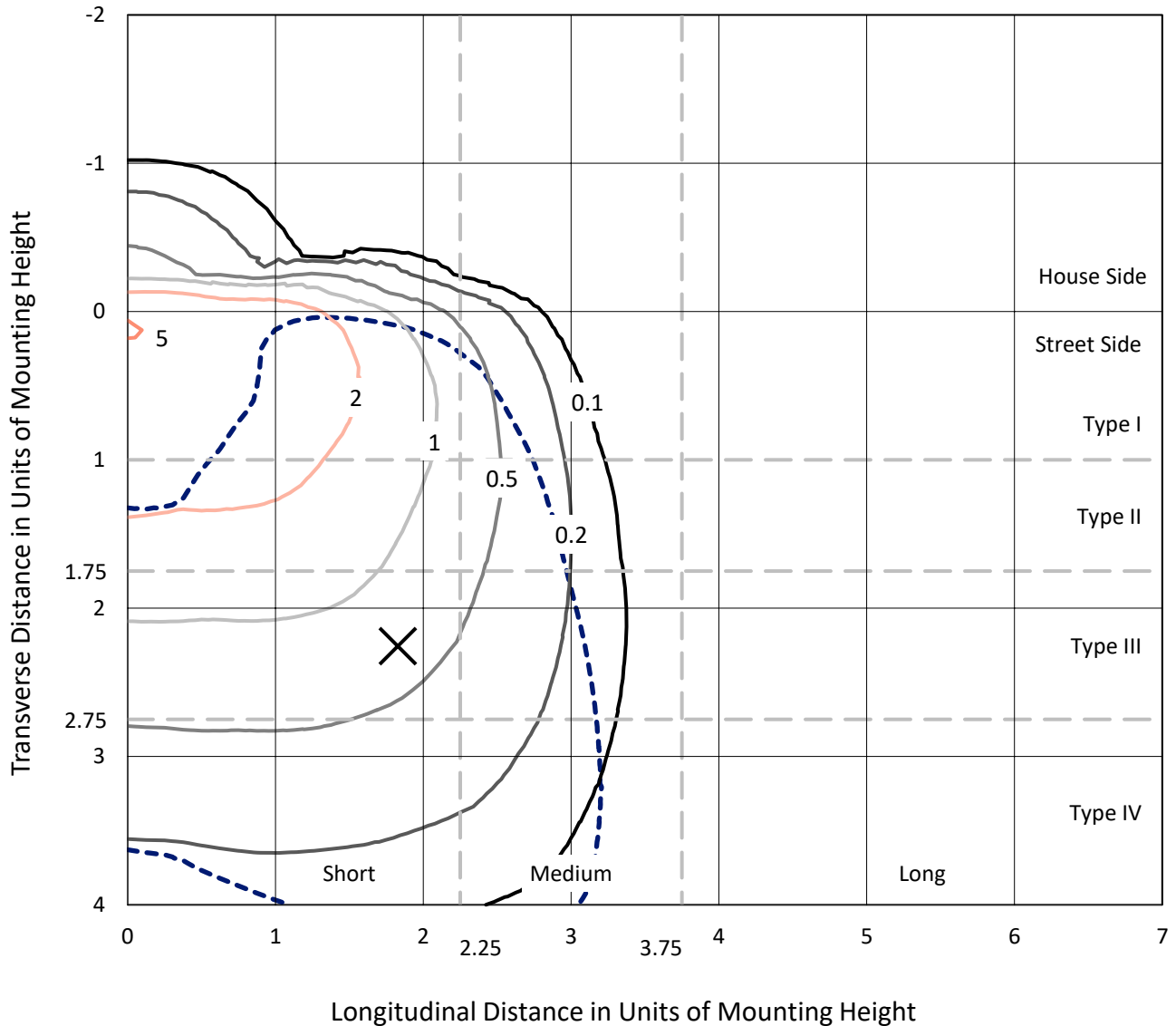
Lumens per Lamp: N/A  
Luminaire Lumens: 17266 lumens  
Efficiency: N/A  
Efficacy: 79.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 218.1  
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

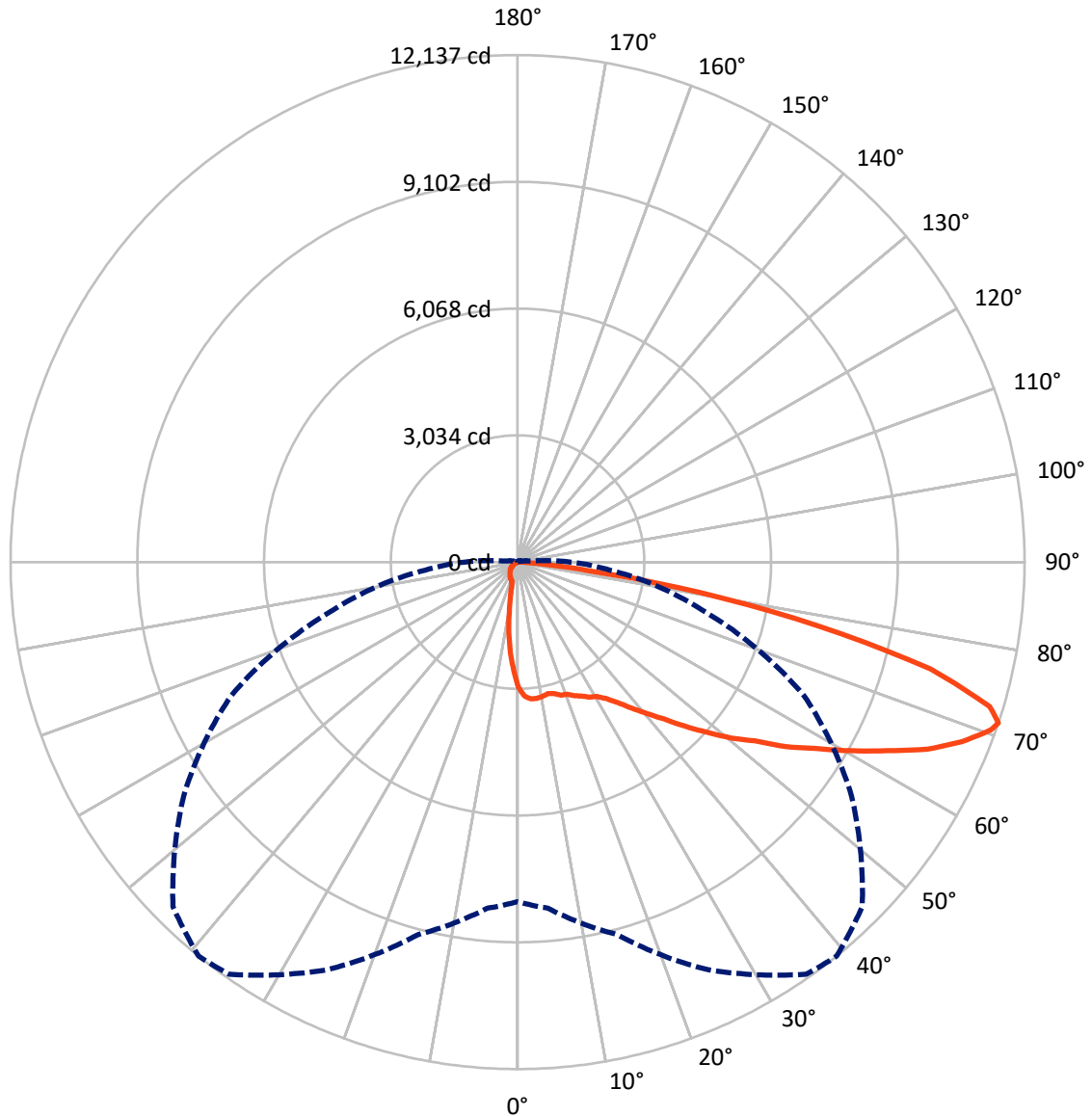
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1299.9	0.0	1299.9
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	15966.1	0.0	15966.1
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	17266.0	0.0	17266.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.3	1.5
10°-20°	618.4	3.6
20°-30°	992.8	5.7
30°-40°	1519.7	8.8
40°-50°	2439.4	14.1
50°-60°	3583.1	20.8
60°-70°	4512.8	26.1
70°-80°	3011.8	17.4
80°-90°	336.6	1.9
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°	17266.0	100.0
0°-180°	17266.0	100.0

**Coefficient of Utilization**



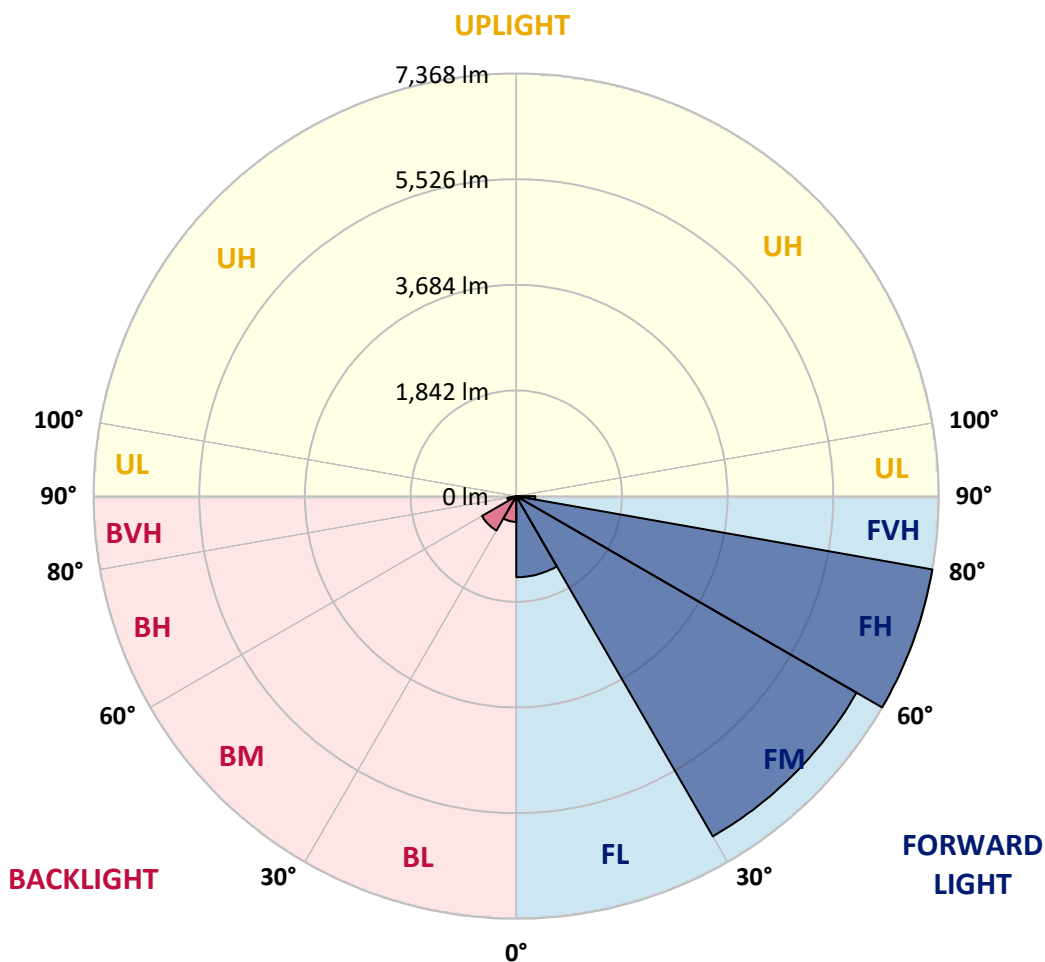
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1413.7	8.2			
FM (30°-60°)	6851.4	39.7			
FH (60°-80°)	7368.1	42.7			G3/7500
FVH (80°-90°)	332.9	1.9			G3/500
BL (0°-30°)	448.8	2.6	B1/500		
BM (30°-60°)	690.9	4.0	B1/1000		
BH (60°-80°)	156.5	0.9	B1/500		G1/500
BVH (80°-90°)	3.7	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3005.3	3005.3	3005.3	3005.3	3005.3	3005.3	3005.3	3005.3	3005.3	3005.3	3005.3
2.5°	3238.5	3270.2	3238.5	3224.9	3211.3	3213.6	3177.4	3184.2	3141.1	3084.5	3039.2
5°	3340.4	3383.5	3349.5	3333.6	3331.4	3288.3	3270.2	3227.2	3175.1	3086.8	3032.4
7.5°	3331.4	3322.3	3338.2	3324.6	3295.1	3295.1	3274.7	3213.6	3161.5	3061.9	2969.0
10°	3263.4	3290.6	3277.0	3261.2	3268.0	3270.2	3231.7	3188.7	3172.8	3073.2	2921.5
12.5°	3256.6	3211.3	3261.2	3263.4	3234.0	3231.7	3227.2	3215.9	3166.0	3075.5	2932.8
15°	3234.0	3215.9	3265.7	3268.0	3274.7	3268.0	3274.7	3265.7	3215.9	3163.8	2982.6
17.5°	3252.1	3231.7	3301.9	3335.9	3320.0	3351.7	3340.4	3299.7	3256.6	3195.5	3030.2
20°	3256.6	3286.1	3363.1	3376.7	3426.5	3374.4	3372.1	3329.1	3301.9	3236.2	3059.6
22.5°	3340.4	3354.0	3449.1	3478.6	3480.8	3474.0	3417.4	3367.6	3356.3	3274.7	3066.4
25°	3467.2	3514.8	3557.8	3576.0	3582.7	3551.0	3492.2	3428.7	3401.6	3349.5	3136.6
27.5°	3691.5	3662.0	3700.5	3727.7	3650.7	3662.0	3587.3	3532.9	3494.4	3449.1	3218.1
30°	3890.7	3863.6	3865.8	3861.3	3795.6	3734.5	3714.1	3619.0	3571.4	3589.5	3345.0
32.5°	4069.7	4010.8	4060.6	4038.0	3915.7	3897.5	3881.7	3761.7	3770.7	3854.5	3535.2
35°	4235.0	4214.6	4255.4	4214.6	4133.1	4128.5	4112.7	4008.5	4058.3	4178.4	3861.3
37.5°	4386.7	4393.5	4443.3	4423.0	4429.7	4434.3	4425.2	4314.2	4456.9	4726.4	4241.8
40°	4527.1	4518.1	4640.4	4703.8	4717.4	4767.2	4767.2	4740.0	4959.7	5263.2	4769.4
42.5°	4676.6	4699.2	4857.8	4964.2	5093.3	5136.3	5195.2	5208.8	5548.5	5895.0	5308.4
45°	4921.2	4882.7	5084.2	5335.6	5448.9	5600.6	5691.2	5768.2	6178.1	6653.7	5847.4
47.5°	5231.4	5154.4	5331.1	5695.7	5958.4	6083.0	6246.0	6347.9	6748.8	7240.2	6357.0
50°	5575.7	5496.4	5582.5	6085.2	6391.0	6617.4	6825.8	6954.9	7439.5	7897.0	6728.4
52.5°	5965.2	5892.7	5906.3	6490.6	6941.3	7106.6	7380.6	7573.1	8055.5	8293.3	6859.8
55°	6379.6	6361.5	6318.5	6886.9	7423.7	7795.1	7960.4	8191.4	8687.4	8508.5	7002.4
57.5°	6796.4	6739.7	6800.9	7412.3	8198.2	8420.1	8648.9	8787.0	9038.4	8696.4	6948.1
60°	7188.1	7192.7	7278.7	7983.1	8857.2	9172.0	9378.1	9294.3	9398.5	8778.0	6823.5
62.5°	7518.8	7509.7	7727.1	8624.0	9729.1	9942.0	10096.0	9722.3	9566.1	8857.2	6606.1
65°	7815.5	7917.4	8259.3	9387.2	10549.0	10793.5	10700.7	10127.7	9729.1	8624.0	5994.6
67.5°	8039.7	8191.4	8784.8	10105.1	11300.8	11472.9	11343.9	10435.7	9536.6	7709.0	4882.7
70°	8171.0	8325.0	9160.7	10703.0	11901.0	12025.5	11722.1	10197.9	8413.3	5582.5	3046.0
71°	8130.3	8318.2	9233.2	10766.4	12043.7	12136.5	11665.4	9758.6	7566.3	4674.3	2221.7
72.5°	7761.1	7937.8	8932.0	10721.1	11871.5	11814.9	11223.8	8703.2	5956.1	2980.3	1148.2
75°	5702.5	5892.7	7666.0	9273.9	10596.5	10207.0	9083.7	6107.9	3107.2	912.7	335.2
77.5°	2839.9	2871.6	4758.1	6732.9	7772.4	7385.2	6087.5	3406.1	1161.8	269.5	167.6
80°	1309.0	1318.1	1784.6	3487.6	4699.2	4423.0	3410.6	1680.4	525.4	142.7	131.4
82.5°	892.3	905.9	1075.7	1444.9	2040.5	1721.2	1381.5	1075.7	301.2	86.1	129.1
85°	163.1	149.5	602.4	765.5	788.1	534.5	477.9	930.8	113.2	49.8	113.2
87.5°	0.0	2.3	83.8	312.5	280.8	124.6	163.1	226.5	11.3	15.9	20.4
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°	3005.3	3005.3	3005.3	3005.3	3005.3	3005.3	3005.3	3005.3	3005.3	3005.3	3005.3
2.5°	3000.7	2975.8	2892.0	2799.2	2715.4	2649.7	2565.9	2527.4	2466.3	2432.3	2430.0
5°	2957.7	2889.8	2744.8	2588.5	2414.2	2269.2	2108.4	2017.8	1913.7	1882.0	1875.2
7.5°	2885.2	2787.8	2575.0	2355.3	2088.0	1832.1	1635.1	1424.5	1295.4	1241.1	1220.7
10°	2839.9	2722.2	2432.3	2103.9	1730.2	1370.1	1093.8	869.6	751.9	695.3	681.7
12.5°	2839.9	2713.1	2316.8	1863.8	1367.9	937.6	677.1	548.1	509.6	496.0	496.0
15°	2833.1	2695.0	2205.8	1617.0	1012.3	629.6	505.0	477.9	473.3	471.1	468.8
17.5°	2867.1	2663.3	2092.6	1352.0	715.6	496.0	464.3	459.7	455.2	455.2	450.7
20°	2892.0	2645.2	1956.7	1071.2	534.5	459.7	446.1	439.4	437.1	434.8	439.4
22.5°	2871.6	2618.0	1789.1	801.7	466.5	437.1	428.0	421.2	416.7	416.7	419.0
25°	2910.1	2593.1	1621.5	604.7	437.1	416.7	407.6	403.1	400.9	398.6	394.1
27.5°	2962.2	2604.4	1422.2	486.9	412.2	396.3	387.3	382.7	380.5	375.9	380.5
30°	3025.6	2602.1	1202.6	425.8	389.5	373.7	364.6	362.4	357.8	355.6	357.8
32.5°	3134.3	2661.0	976.1	394.1	364.6	351.0	342.0	339.7	337.4	335.2	332.9
35°	3367.6	2733.5	763.2	369.1	342.0	326.1	319.3	314.8	312.5	310.3	308.0
37.5°	3655.2	2894.3	582.0	346.5	319.3	303.5	296.7	294.4	285.4	283.1	280.8
40°	4015.3	3066.4	448.4	321.6	298.9	283.1	276.3	269.5	258.2	253.6	249.1
42.5°	4463.7	3234.0	369.1	298.9	276.3	265.0	253.6	242.3	233.3	224.2	219.7
45°	4912.1	3428.7	323.9	278.6	258.2	244.6	235.5	219.7	203.8	190.2	188.0
47.5°	5285.8	3499.0	296.7	255.9	240.1	228.7	215.1	194.8	172.1	158.5	156.3
50°	5564.4	3458.2	269.5	233.3	219.7	208.4	190.2	165.3	142.7	129.1	124.6
52.5°	5618.7	3279.3	244.6	215.1	199.3	185.7	165.3	138.1	113.2	99.6	97.4
55°	5580.2	2982.6	224.2	199.3	181.2	160.8	138.1	111.0	88.3	74.7	72.5
57.5°	5500.9	2631.6	201.6	178.9	158.5	138.1	113.2	90.6	65.7	52.1	52.1
60°	5231.4	2153.7	178.9	156.3	135.9	117.8	92.9	65.7	45.3	34.0	31.7
62.5°	4855.5	1655.5	156.3	133.6	117.8	97.4	72.5	47.6	27.2	18.1	18.1
65°	4169.3	1159.5	131.4	111.0	97.4	79.3	54.4	29.4	15.9	6.8	6.8
67.5°	3168.3	717.9	108.7	92.9	83.8	63.4	38.5	18.1	6.8	2.3	0.0
70°	1818.6	373.7	86.1	74.7	65.7	47.6	27.2	9.1	4.5	0.0	0.0
71°	1270.5	276.3	77.0	65.7	58.9	43.0	22.6	6.8	2.3	0.0	0.0
72.5°	636.4	183.4	65.7	54.4	47.6	34.0	18.1	6.8	2.3	0.0	0.0
75°	226.5	117.8	45.3	36.2	34.0	24.9	11.3	4.5	2.3	0.0	0.0
77.5°	156.3	95.1	31.7	22.6	22.6	15.9	6.8	2.3	2.3	0.0	0.0
80°	142.7	52.1	20.4	13.6	11.3	9.1	4.5	2.3	0.0	0.0	0.0
82.5°	142.7	38.5	11.3	9.1	6.8	4.5	2.3	0.0	0.0	0.0	0.0
85°	99.6	20.4	6.8	6.8	4.5	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	15.9	6.8	4.5	2.3	2.3	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)