

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: P484380

Luminaire Tested: **IFLD-M-SA4D-735-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484380  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-735-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

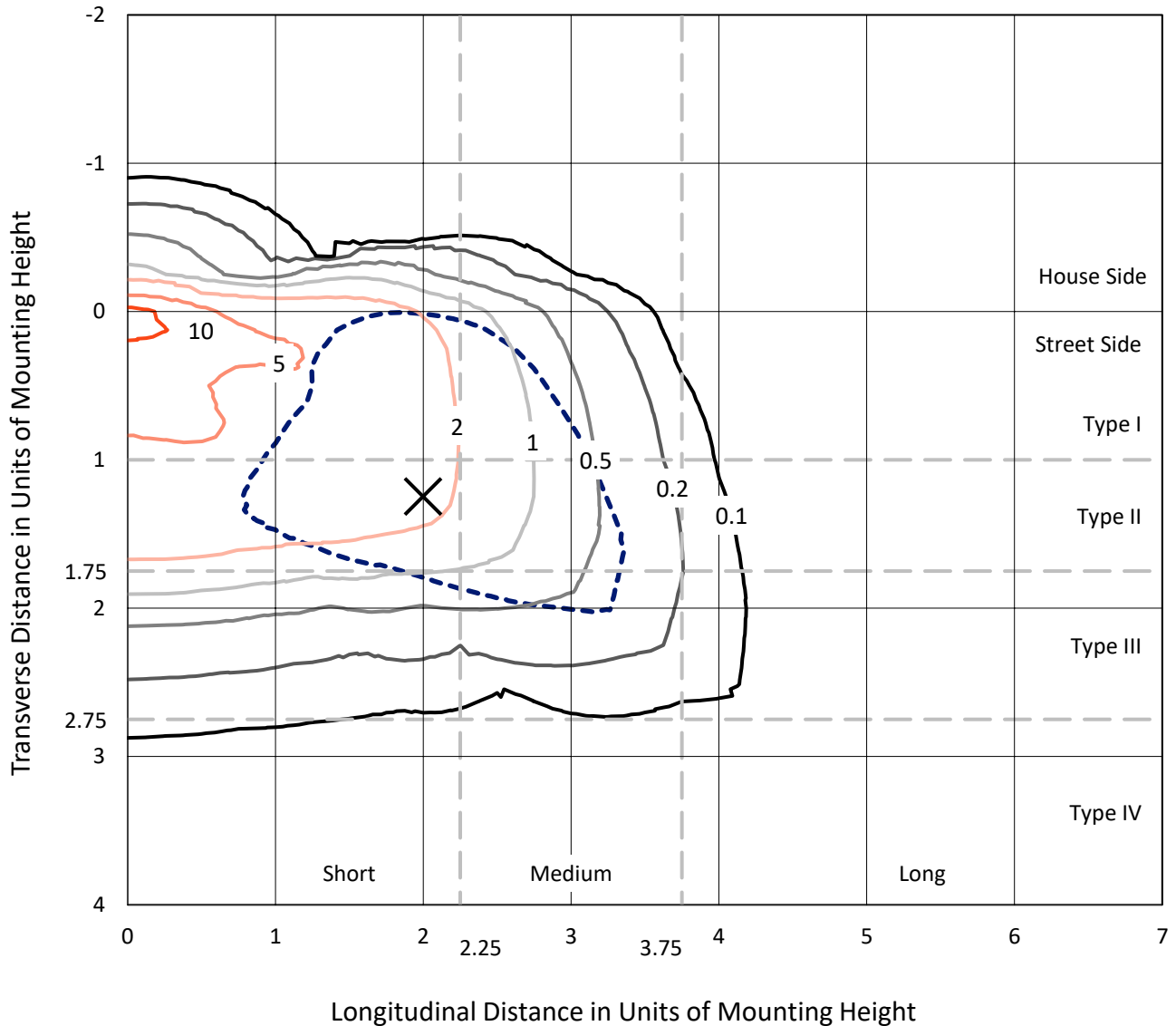
Lumens per Lamp: N/A  
Luminaire Lumens: 25804.2 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7  
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

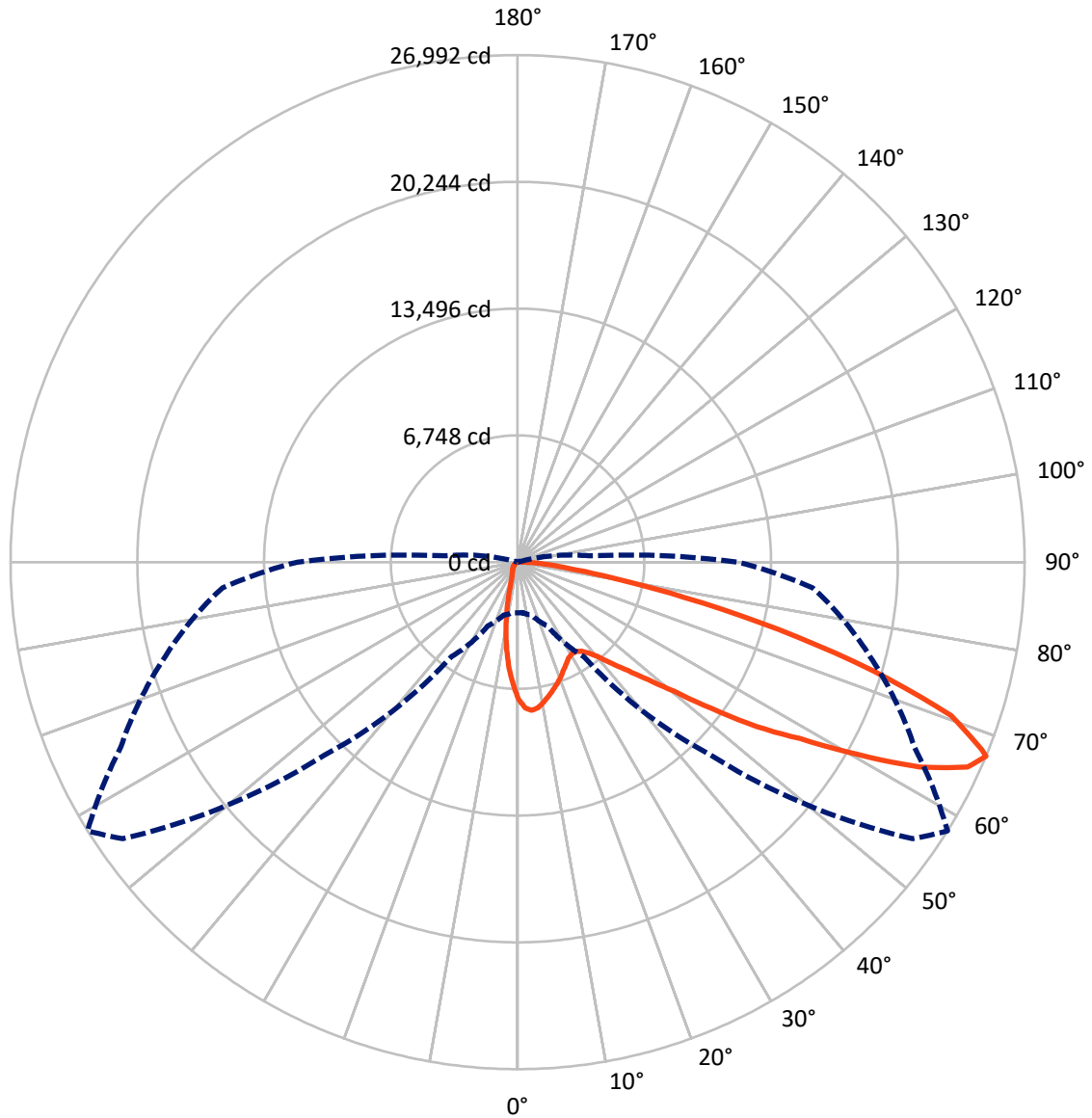
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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
<b>House Side</b>	Lumens	2132.9	0.0	2132.9
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	23671.3	0.0	23671.3
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	25804.2	0.0	25804.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	580.1	2.2
10°-20°	1203.2	4.7
20°-30°	1596.3	6.2
30°-40°	2212.0	8.6
40°-50°	3609.4	14.0
50°-60°	6344.1	24.6
60°-70°	7026.7	27.2
70°-80°	2911.8	11.3
80°-90°	320.5	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°	25804.2	100.0
0°-180°	25804.2	100.0



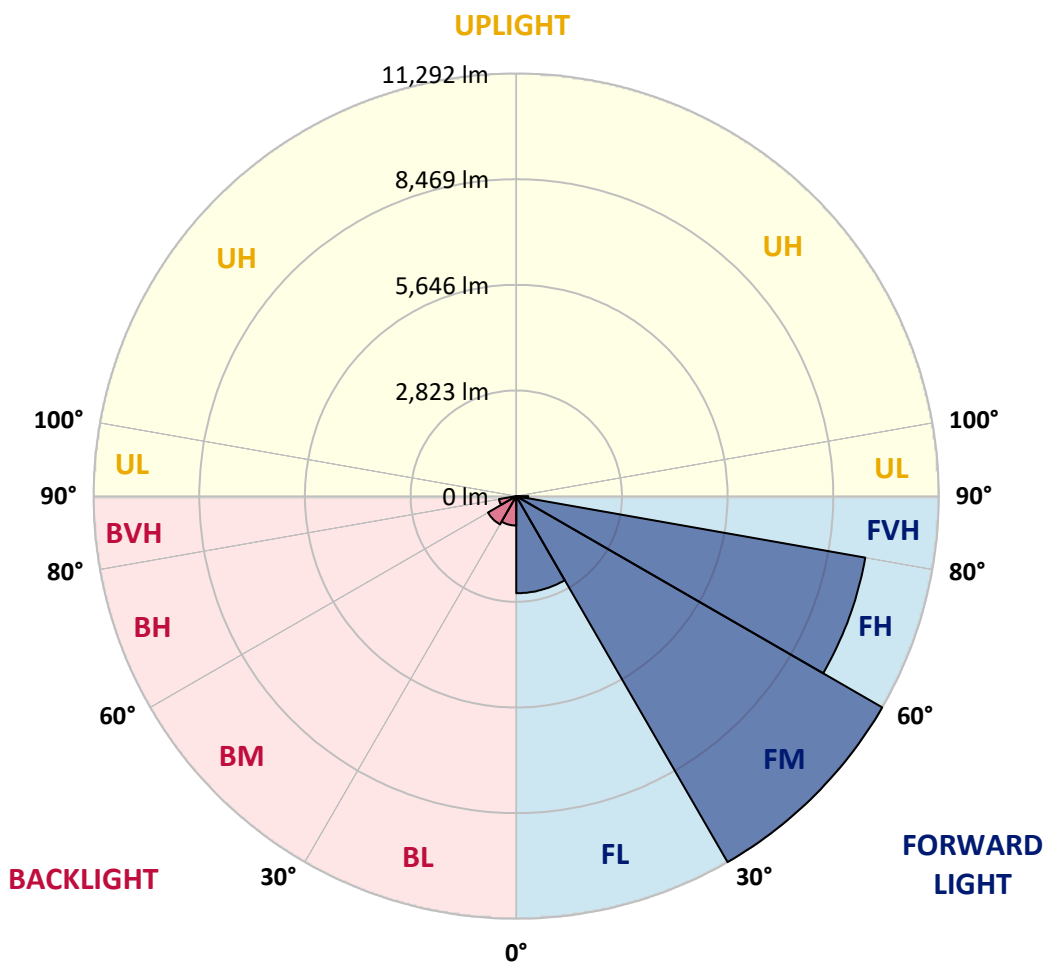
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2594.0	10.1			
FM (30°-60°)	11292.4	43.8			
FH (60°-80°)	9469.5	36.7			G4/12000
FVH (80°-90°)	315.3	1.2			G3/500
BL (0°-30°)	785.6	3.0	B2/1000		
BM (30°-60°)	873.1	3.4	B1/1000		
BH (60°-80°)	468.9	1.8	B1/500		G1/500
BVH (80°-90°)	5.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7
2.5°	7954.7	7982.1	8006.1	7961.6	7999.3	7944.4	7804.0	7773.2	7749.2	7540.2	7420.3
5°	7951.3	7920.5	7944.4	7965.0	7913.6	7954.7	7920.5	7923.9	7831.4	7643.0	7307.2
7.5°	7420.3	7406.6	7420.3	7519.6	7632.7	7721.8	7773.2	7824.5	7762.9	7482.0	7156.5
10°	6704.3	6772.8	6810.5	6988.6	7163.4	7327.8	7488.8	7584.7	7567.6	7454.6	6992.1
12.5°	6204.1	6183.6	6320.6	6437.1	6611.8	6944.1	7225.0	7314.1	7416.9	7259.3	6776.2
15°	5741.7	5686.8	5769.1	5971.2	6269.2	6533.0	6927.0	7060.6	7190.8	7231.9	6659.8
17.5°	5299.7	5327.1	5412.8	5594.3	5875.3	6245.2	6615.2	6807.1	7118.8	7064.0	6485.1
20°	5087.3	5145.6	5176.4	5268.9	5464.2	5834.2	6385.7	6539.9	6872.2	7060.6	6313.8
22.5°	5097.6	5097.6	5025.7	5080.5	5258.6	5546.4	6074.0	6245.2	6772.8	6882.4	6159.6
25°	5207.2	5138.7	5142.1	5077.0	5152.4	5310.0	5793.0	6002.0	6570.7	6899.6	6077.4
27.5°	5289.4	5275.7	5255.2	5238.1	5142.1	5166.1	5608.0	5779.3	6491.9	6879.0	5950.6
30°	5587.5	5525.8	5505.3	5467.6	5340.8	5224.4	5460.7	5676.6	6430.2	6927.0	5878.7
32.5°	5837.6	5847.9	5865.0	5755.4	5645.7	5358.0	5501.8	5673.1	6385.7	7036.6	5950.6
35°	6152.8	6197.3	6204.1	6169.9	6053.4	5769.1	5673.1	5820.4	6461.1	7231.9	5957.5
37.5°	6632.4	6584.4	6714.6	6728.3	6646.1	6269.2	6070.5	6128.8	6683.8	7543.6	6217.8
40°	6944.1	7002.4	7245.6	7396.3	7255.9	6913.3	6646.1	6635.8	7005.8	8033.5	6539.9
42.5°	7290.1	7420.3	7687.5	8013.0	7995.8	7677.2	7406.6	7362.1	7577.9	8742.7	7050.3
45°	7762.9	7879.4	8252.8	8742.7	9009.9	8739.2	8331.6	8242.5	8273.3	9708.7	7920.5
47.5°	8547.4	8516.6	9054.4	9537.4	9976.0	9767.0	9592.3	9331.9	9307.9	10846.1	9122.9
50°	9434.7	9427.8	9907.4	10455.6	10962.6	11370.3	11079.1	10794.7	10801.6	12391.1	10537.8
52.5°	10277.4	10411.0	10928.3	11473.0	12343.2	12781.7	13062.6	12949.6	12404.9	13771.7	12052.0
55°	10722.8	10839.3	11353.1	12291.8	13665.5	14792.6	15553.2	15457.2	14405.5	15327.1	13545.6
57.5°	10301.4	10380.2	11075.6	12305.5	14590.5	17105.1	17834.8	17714.9	16474.7	16515.8	15351.0
60°	8537.1	8660.4	9695.0	11137.3	14230.8	18886.5	20976.2	20794.7	18358.9	18019.7	16512.4
62.5°	5912.9	5995.2	6844.8	8639.9	12524.8	19506.5	23943.0	24042.3	20345.9	19191.4	16858.4
65°	3830.1	3823.2	4309.7	5525.8	8876.3	17629.2	25697.0	26313.6	22264.3	19369.5	16752.2
67°	2706.4	2696.1	2925.6	3747.8	6145.9	14525.4	25666.2	26991.9	23305.8	19420.9	15769.0
67.5°	2497.4	2487.1	2706.4	3446.4	5546.4	13508.0	25282.5	26642.5	23672.3	19349.0	15337.3
70°	1939.0	1911.6	1993.8	2374.1	3230.5	8735.8	21637.4	24474.0	22911.8	17553.8	12247.3
72.5°	1401.2	1432.0	1562.2	1949.3	2535.1	4700.2	16491.8	19790.9	19136.6	13230.5	7783.4
75°	976.4	1003.8	1212.7	1589.6	2326.1	2850.3	11151.0	14354.1	13329.8	7303.8	3316.2
77.5°	510.4	544.7	774.2	1271.0	2113.7	2206.2	6663.2	9102.4	7064.0	2600.2	914.7
80°	236.4	253.5	387.1	901.0	1767.7	1939.0	3884.9	5063.3	2826.3	582.4	315.2
82.5°	102.8	113.1	178.1	517.3	1253.8	1695.8	2404.9	2655.0	1024.3	188.4	195.3
85°	20.6	24.0	68.5	274.1	606.4	1027.7	1688.9	1575.9	513.9	92.5	154.2
87.5°	0.0	0.0	17.1	78.8	164.4	304.9	716.0	716.0	157.6	48.0	58.2
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°	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7	7310.7
2.5°	7314.1	7190.8	6920.1	6670.0	6491.9	6289.8	6022.6	5902.7	5858.1	5796.5	5704.0
5°	7122.3	6971.5	6509.0	6043.1	5532.7	5145.6	4734.5	4494.7	4313.1	4200.0	4162.4
7.5°	6851.6	6543.3	5919.8	5173.0	4511.8	3936.3	3312.8	2891.4	2620.7	2511.1	2408.3
10°	6635.8	6235.0	5286.0	4357.6	3477.2	2634.4	1932.2	1562.2	1281.3	1175.1	1161.3
12.5°	6354.9	5875.3	4693.4	3525.2	2418.6	1569.0	1068.9	928.4	849.6	835.9	825.6
15°	6121.9	5549.8	4131.5	2730.4	1565.6	979.8	832.5	798.2	777.7	770.8	774.2
17.5°	5964.3	5200.4	3556.0	1987.0	1031.2	801.6	767.4	746.8	736.5	733.1	722.8
20°	5652.6	4905.8	2987.3	1390.9	805.1	740.0	712.6	695.4	685.2	681.7	678.3
22.5°	5474.4	4532.3	2418.6	969.5	716.0	671.5	650.9	637.2	620.1	609.8	606.4
25°	5296.3	4258.3	1911.6	753.7	650.9	620.1	589.2	572.1	544.7	531.0	527.6
27.5°	5087.3	3987.6	1473.1	654.3	585.8	555.0	524.1	496.7	462.5	448.8	441.9
30°	4967.4	3723.9	1110.0	585.8	537.9	496.7	459.1	424.8	387.1	363.1	356.3
32.5°	4905.8	3484.0	832.5	534.4	486.5	441.9	394.0	352.9	318.6	298.0	294.6
35°	4830.4	3251.1	654.3	486.5	438.5	390.5	342.6	301.5	267.2	250.1	243.2
37.5°	4909.2	3114.1	544.7	448.8	400.8	346.0	294.6	253.5	226.1	209.0	205.5
40°	5125.0	3001.0	472.8	414.5	363.1	304.9	256.9	215.8	191.8	178.1	171.3
42.5°	5457.3	3001.0	428.2	380.3	328.9	267.2	219.3	188.4	164.4	150.7	147.3
45°	6060.3	3093.5	390.5	346.0	287.8	229.5	188.4	157.6	133.6	119.9	116.5
47.5°	6906.4	3305.9	359.7	315.2	256.9	202.1	164.4	133.6	109.6	95.9	92.5
50°	8043.8	3788.9	328.9	277.5	229.5	174.7	137.0	106.2	85.6	71.9	68.5
52.5°	9462.1	4474.1	298.0	256.9	195.3	147.3	109.6	85.6	65.1	54.8	51.4
55°	10962.6	5313.4	260.4	229.5	167.9	123.3	89.1	65.1	48.0	41.1	37.7
57.5°	12473.4	5960.9	229.5	198.7	137.0	99.3	71.9	51.4	34.3	27.4	24.0
60°	13275.0	6022.6	198.7	164.4	109.6	78.8	54.8	37.7	24.0	17.1	13.7
62.5°	13398.3	5474.4	171.3	133.6	89.1	61.7	37.7	27.4	13.7	6.9	6.9
65°	12764.6	4563.2	147.3	106.2	68.5	44.5	27.4	17.1	6.9	3.4	0.0
67°	11736.8	3823.2	126.8	89.1	54.8	34.3	20.6	10.3	3.4	0.0	0.0
67.5°	11339.4	3617.7	119.9	82.2	51.4	30.8	17.1	10.3	3.4	0.0	0.0
70°	8800.9	2583.1	89.1	58.2	37.7	24.0	13.7	6.9	0.0	0.0	0.0
72.5°	5392.2	1510.8	68.5	41.1	27.4	17.1	10.3	3.4	0.0	0.0	0.0
75°	2261.0	520.7	58.2	30.8	20.6	10.3	6.9	3.4	0.0	0.0	0.0
77.5°	589.2	195.3	41.1	20.6	13.7	10.3	6.9	3.4	0.0	0.0	0.0
80°	239.8	89.1	27.4	13.7	13.7	10.3	6.9	3.4	0.0	0.0	0.0
82.5°	157.6	41.1	17.1	13.7	10.3	6.9	3.4	0.0	0.0	0.0	0.0
85°	119.9	24.0	10.3	10.3	6.9	3.4	0.0	0.0	0.0	0.0	0.0
87.5°	51.4	13.7	10.3	6.9	6.9	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)