

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: P484457

Luminaire Tested: **IFLD-M-SA4C-750-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484457  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-750-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

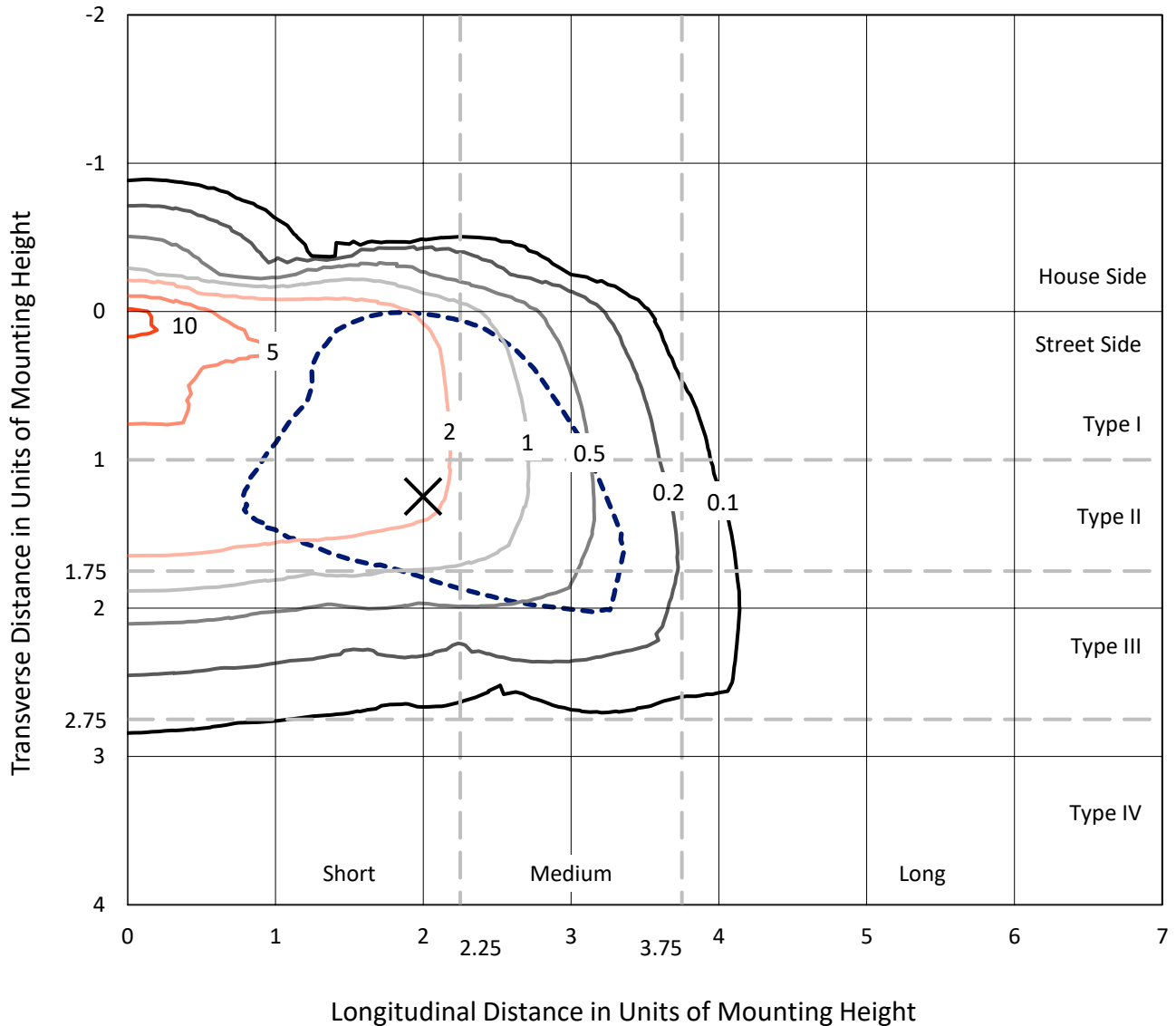
Lumens per Lamp: N/A  
Luminaire Lumens: 24321.8 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

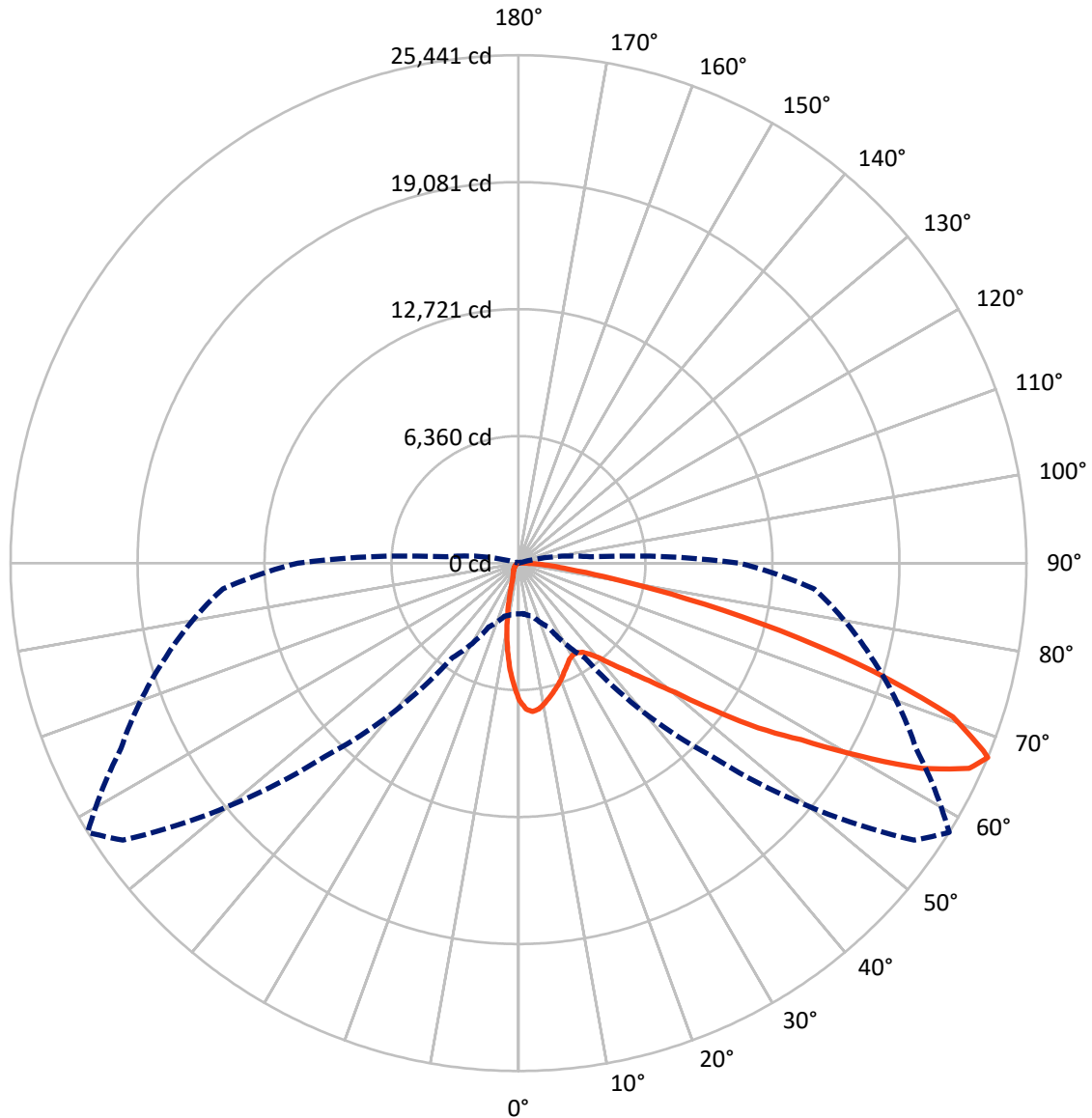
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	2010.4	0.0	2010.4
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	22311.4	0.0	22311.4
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	24321.8	0.0	24321.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	546.7	2.2
10°-20°	1134.1	4.7
20°-30°	1504.6	6.2
30°-40°	2084.9	8.6
40°-50°	3402.0	14.0
50°-60°	5979.7	24.6
60°-70°	6623.0	27.2
70°-80°	2744.6	11.3
80°-90°	302.1	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°	24321.8	100.0
0°-180°	24321.8	100.0

**Coefficient of Utilization**



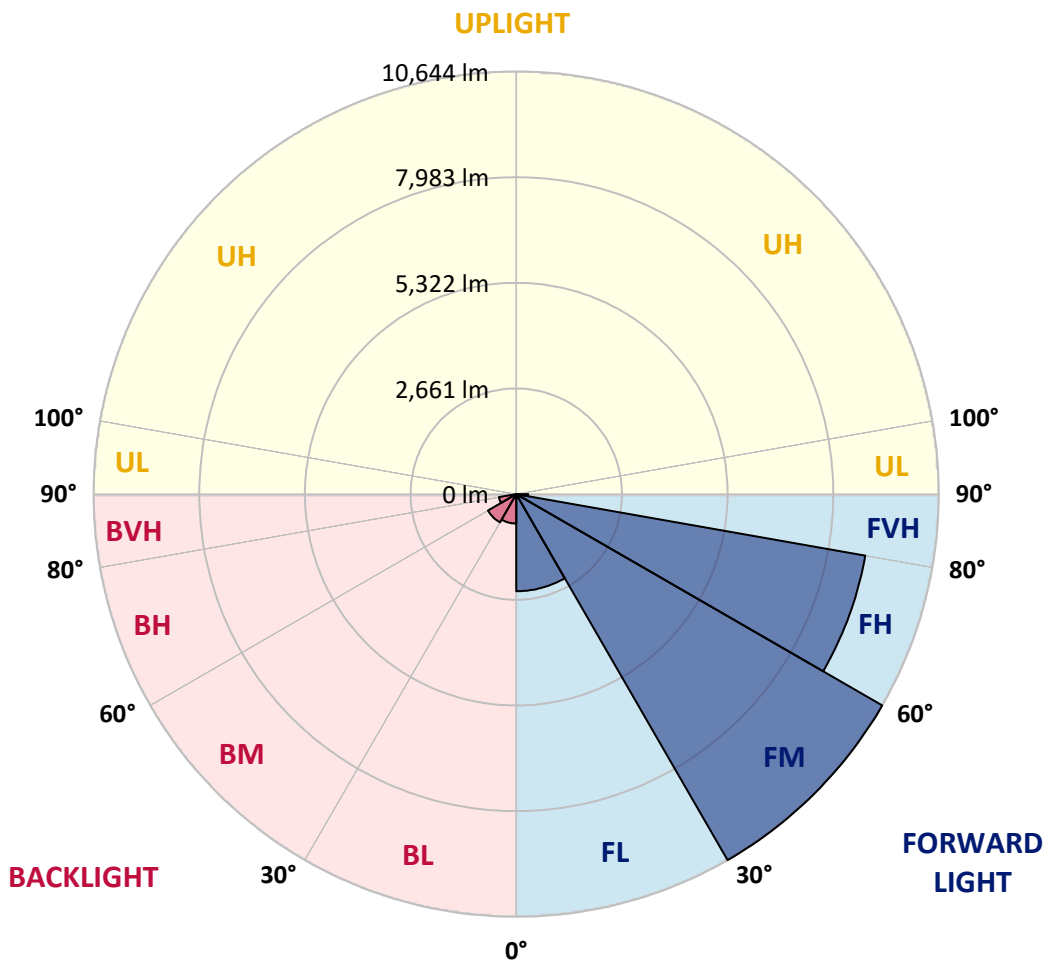
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2445.0	10.1			
FM (30°-60°)	10643.7	43.8			
FH (60°-80°)	8925.5	36.7			G4/12000
FVH (80°-90°)	297.2	1.2			G3/500
BL (0°-30°)	740.4	3.0	B2/1000		
BM (30°-60°)	823.0	3.4	B1/1000		
BH (60°-80°)	442.0	1.8	B1/500		G1/500
BVH (80°-90°)	5.0	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°	6890.7	6890.7	6890.7	6890.7	6890.7	6890.7	6890.7	6890.7	6890.7	6890.7	6890.7
2.5°	7497.7	7523.6	7546.2	7504.2	7539.7	7488.1	7355.7	7326.6	7304.0	7107.0	6994.0
5°	7494.5	7465.5	7488.1	7507.4	7459.0	7497.7	7465.5	7468.7	7381.5	7203.9	6887.5
7.5°	6994.0	6981.1	6994.0	7087.7	7194.2	7278.2	7326.6	7375.0	7316.9	7052.1	6745.4
10°	6319.2	6383.7	6419.3	6587.2	6751.8	6906.8	7058.6	7149.0	7132.9	7026.3	6590.4
12.5°	5847.7	5828.4	5957.5	6067.3	6232.0	6545.2	6810.0	6893.9	6990.8	6842.3	6387.0
15°	5411.8	5360.1	5437.6	5628.2	5909.1	6157.7	6529.0	6655.0	6777.7	6816.4	6277.2
17.5°	4995.3	5021.1	5101.8	5273.0	5537.7	5886.5	6235.2	6416.0	6709.9	6658.2	6112.5
20°	4795.1	4850.0	4879.0	4966.2	5150.3	5499.0	6018.9	6164.2	6477.4	6655.0	5951.1
22.5°	4804.8	4804.8	4736.9	4788.6	4956.5	5227.8	5725.0	5886.5	6383.7	6487.1	5805.7
25°	4908.1	4843.5	4846.7	4785.4	4856.4	5005.0	5460.2	5657.2	6193.2	6503.2	5728.3
27.5°	4985.6	4972.7	4953.3	4937.1	4846.7	4869.3	5285.9	5447.3	6119.0	6483.8	5608.8
30°	5266.5	5208.4	5189.0	5153.5	5034.0	4924.2	5147.0	5350.5	6060.8	6529.0	5541.0
32.5°	5502.2	5511.9	5528.1	5424.7	5321.4	5050.2	5185.8	5347.2	6018.9	6632.4	5608.8
35°	5799.3	5841.3	5847.7	5815.4	5705.6	5437.6	5347.2	5486.1	6089.9	6816.4	5615.2
37.5°	6251.3	6206.1	6328.8	6341.8	6264.3	5909.1	5721.8	5776.7	6299.8	7110.3	5860.6
40°	6545.2	6600.1	6829.3	6971.4	6839.0	6516.1	6264.3	6254.6	6603.3	7572.0	6164.2
42.5°	6871.3	6994.0	7245.9	7552.6	7536.5	7236.2	6981.1	6939.1	7142.6	8240.4	6645.3
45°	7316.9	7426.7	7778.7	8240.4	8492.3	8237.2	7852.9	7769.0	7798.0	9151.0	7465.5
47.5°	8056.4	8027.3	8534.3	8989.5	9402.9	9205.9	9041.2	8795.8	8773.2	10223.0	8598.8
50°	8892.7	8886.2	9338.3	9854.9	10332.8	10717.1	10442.6	10174.6	10181.0	11679.3	9932.4
52.5°	9687.0	9812.9	10300.5	10813.9	11634.1	12047.4	12312.2	12205.6	11692.2	12980.6	11359.6
55°	10106.8	10216.6	10700.9	11585.7	12880.5	13942.8	14659.7	14569.3	13578.0	14446.6	12767.5
57.5°	9709.6	9783.9	10439.4	11598.6	13752.3	16122.4	16810.2	16697.2	15528.3	15567.0	14469.2
60°	8046.7	8162.9	9138.1	10497.5	13413.3	17801.5	19771.2	19600.0	17304.2	16984.6	15563.8
62.5°	5573.3	5650.8	6451.5	8143.5	11805.2	18385.9	22567.5	22661.1	19177.0	18088.9	15889.9
65°	3610.0	3603.6	4062.1	5208.4	8366.3	16616.4	24220.7	24802.0	20985.3	18256.8	15789.8
67°	2550.9	2541.2	2757.6	3532.5	5792.8	13691.0	24191.7	25441.3	21966.9	18305.2	14863.1
67.5°	2353.9	2344.3	2550.9	3248.4	5227.8	12732.0	23830.0	25112.0	22312.4	18237.4	14456.2
70°	1827.6	1801.8	1879.3	2237.7	3044.9	8234.0	20394.4	23068.0	21595.6	16545.4	11543.7
72.5°	1320.7	1349.7	1472.4	1837.3	2389.5	4430.2	15544.4	18653.9	18037.2	12470.4	7336.3
75°	920.3	946.1	1143.1	1498.3	2192.5	2686.5	10510.4	13529.5	12564.0	6884.2	3125.7
77.5°	481.1	513.4	729.8	1198.0	1992.3	2079.5	6280.4	8579.5	6658.2	2450.8	862.1
80°	222.8	238.9	364.9	849.2	1666.2	1827.6	3661.7	4772.5	2663.9	548.9	297.1
82.5°	96.9	106.6	167.9	487.6	1181.8	1598.4	2266.8	2502.5	965.5	177.6	184.1
85°	19.4	22.6	64.6	258.3	571.5	968.7	1591.9	1485.3	484.4	87.2	145.3
87.5°	0.0	0.0	16.1	74.3	155.0	287.4	674.9	674.9	148.5	45.2	54.9
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°	6890.7	6890.7	6890.7	6890.7	6890.7	6890.7	6890.7	6890.7	6890.7	6890.7	6890.7
2.5°	6893.9	6777.7	6522.6	6286.9	6119.0	5928.4	5676.6	5563.6	5521.6	5463.5	5376.3
5°	6713.1	6571.0	6135.1	5696.0	5214.8	4850.0	4462.5	4236.5	4065.3	3958.8	3923.2
7.5°	6458.0	6167.4	5579.7	4875.8	4252.6	3710.1	3122.4	2725.3	2470.2	2366.9	2270.0
10°	6254.6	5876.8	4982.4	4107.3	3277.4	2483.1	1821.2	1472.4	1207.6	1107.5	1094.6
12.5°	5989.8	5537.7	4423.7	3322.6	2279.7	1478.9	1007.4	875.1	800.8	787.9	778.2
15°	5770.2	5231.0	3894.2	2573.5	1475.7	923.5	784.6	752.4	733.0	726.5	729.8
17.5°	5621.7	4901.6	3351.7	1872.8	971.9	755.6	723.3	703.9	694.2	691.0	681.3
20°	5327.9	4623.9	2815.7	1311.0	758.8	697.5	671.6	655.5	645.8	642.6	639.3
22.5°	5159.9	4272.0	2279.7	913.8	674.9	632.9	613.5	600.6	584.4	574.8	571.5
25°	4992.0	4013.7	1801.8	710.4	613.5	584.4	555.4	539.2	513.4	500.5	497.3
27.5°	4795.1	3758.6	1388.5	616.7	552.2	523.1	494.0	468.2	435.9	423.0	416.5
30°	4682.1	3509.9	1046.2	552.2	507.0	468.2	432.7	400.4	364.9	342.3	335.8
32.5°	4623.9	3283.9	784.6	503.7	458.5	416.5	371.3	332.6	300.3	280.9	277.7
35°	4552.9	3064.3	616.7	458.5	413.3	368.1	322.9	284.2	251.9	235.7	229.3
37.5°	4627.2	2935.2	513.4	423.0	377.8	326.1	277.7	238.9	213.1	197.0	193.7
40°	4830.6	2828.6	445.6	390.7	342.3	287.4	242.2	203.4	180.8	167.9	161.5
42.5°	5143.8	2828.6	403.6	358.4	310.0	251.9	206.7	177.6	155.0	142.1	138.8
45°	5712.1	2915.8	368.1	326.1	271.2	216.3	177.6	148.5	125.9	113.0	109.8
47.5°	6509.7	3116.0	339.0	297.1	242.2	190.5	155.0	125.9	103.3	90.4	87.2
50°	7581.7	3571.3	310.0	261.5	216.3	164.7	129.2	100.1	80.7	67.8	64.6
52.5°	8918.5	4217.1	280.9	242.2	184.1	138.8	103.3	80.7	61.4	51.7	48.4
55°	10332.8	5008.2	245.4	216.3	158.2	116.2	84.0	61.4	45.2	38.7	35.5
57.5°	11756.8	5618.5	216.3	187.3	129.2	93.6	67.8	48.4	32.3	25.8	22.6
60°	12512.4	5676.6	187.3	155.0	103.3	74.3	51.7	35.5	22.6	16.1	12.9
62.5°	12628.6	5159.9	161.5	125.9	84.0	58.1	35.5	25.8	12.9	6.5	6.5
65°	12031.3	4301.0	138.8	100.1	64.6	42.0	25.8	16.1	6.5	3.2	0.0
67°	11062.6	3603.6	119.5	84.0	51.7	32.3	19.4	9.7	3.2	0.0	0.0
67.5°	10688.0	3409.8	113.0	77.5	48.4	29.1	16.1	9.7	3.2	0.0	0.0
70°	8295.3	2434.7	84.0	54.9	35.5	22.6	12.9	6.5	0.0	0.0	0.0
72.5°	5082.5	1424.0	64.6	38.7	25.8	16.1	9.7	3.2	0.0	0.0	0.0
75°	2131.1	490.8	54.9	29.1	19.4	9.7	6.5	3.2	0.0	0.0	0.0
77.5°	555.4	184.1	38.7	19.4	12.9	9.7	6.5	3.2	0.0	0.0	0.0
80°	226.0	84.0	25.8	12.9	12.9	9.7	6.5	3.2	0.0	0.0	0.0
82.5°	148.5	38.7	16.1	12.9	9.7	6.5	3.2	0.0	0.0	0.0	0.0
85°	113.0	22.6	9.7	9.7	6.5	3.2	0.0	0.0	0.0	0.0	0.0
87.5°	48.4	12.9	9.7	6.5	6.5	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)