

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: P484809

Luminaire Tested: **IFLD-M-SA4D-740-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484809  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-740-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

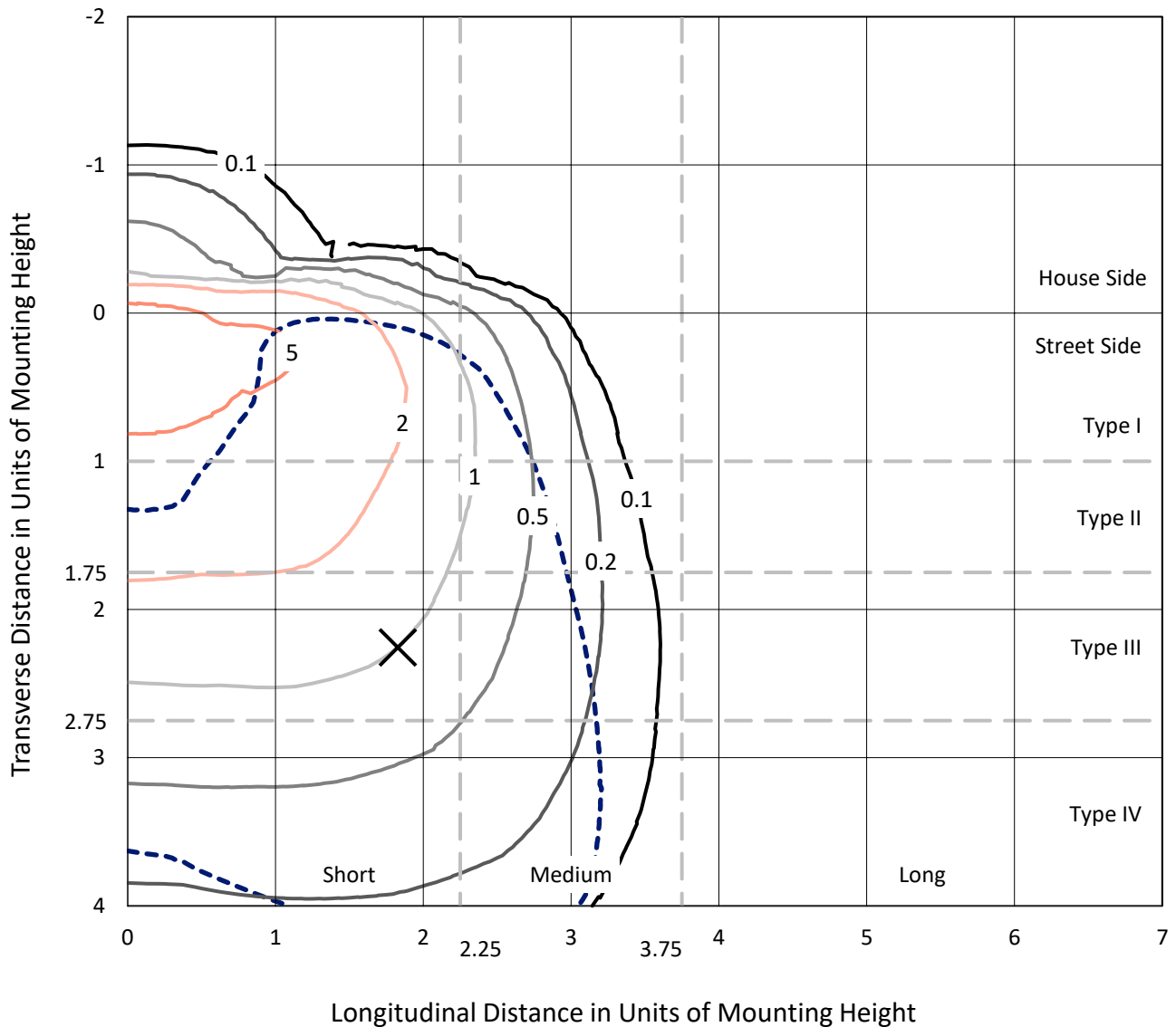
Lumens per Lamp: N/A  
Luminaire Lumens: 25844.2 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

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

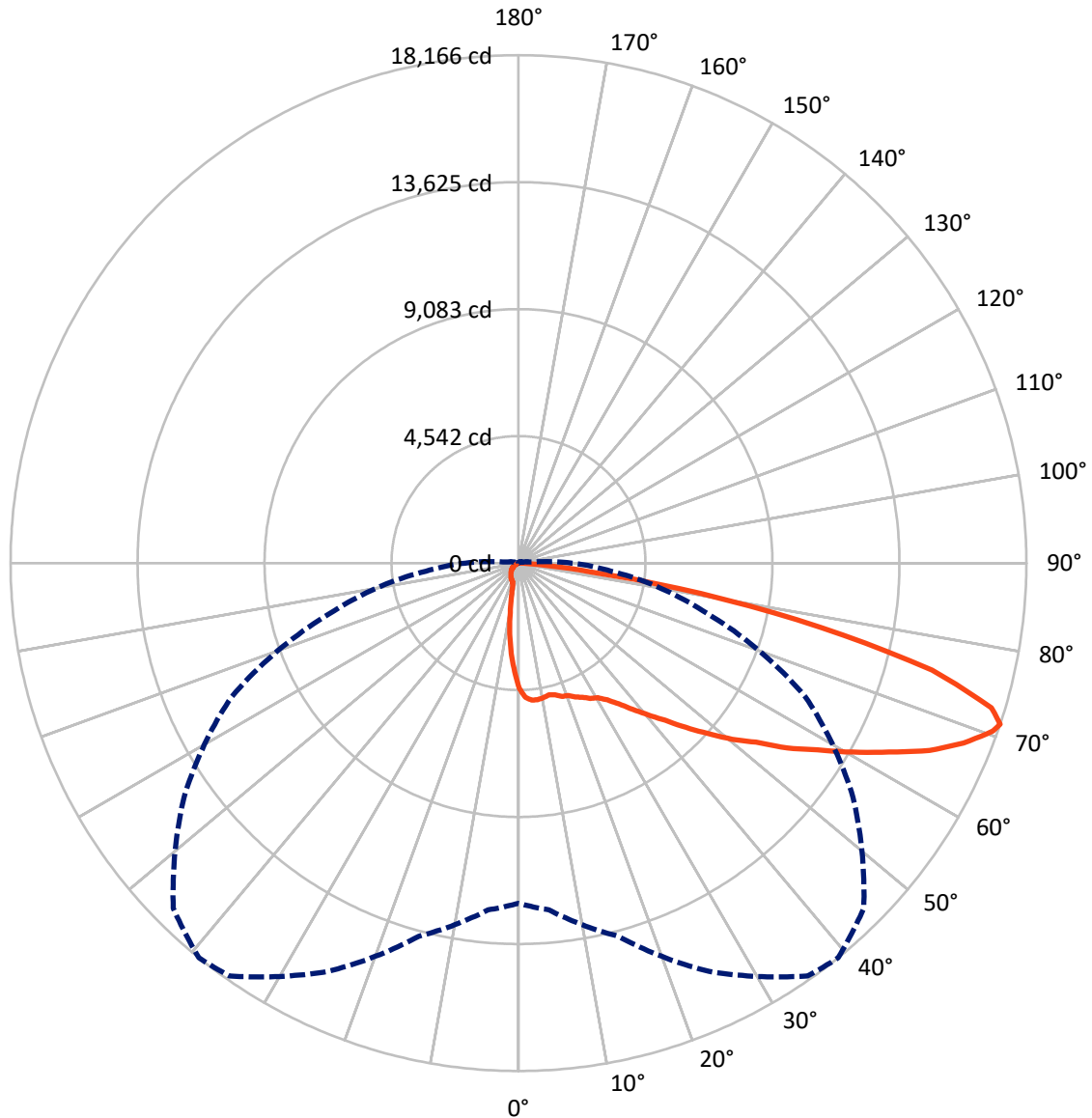
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	1945.7	0.0	1945.7
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	23898.5	0.0	23898.5
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	25844.2	0.0	25844.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	376.1	1.5
10°-20°	925.7	3.6
20°-30°	1486.0	5.8
30°-40°	2274.8	8.8
40°-50°	3651.4	14.1
50°-60°	5363.4	20.8
60°-70°	6754.9	26.1
70°-80°	4508.1	17.4
80°-90°	503.8	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°	25844.2	100.0
0°-180°	25844.2	100.0

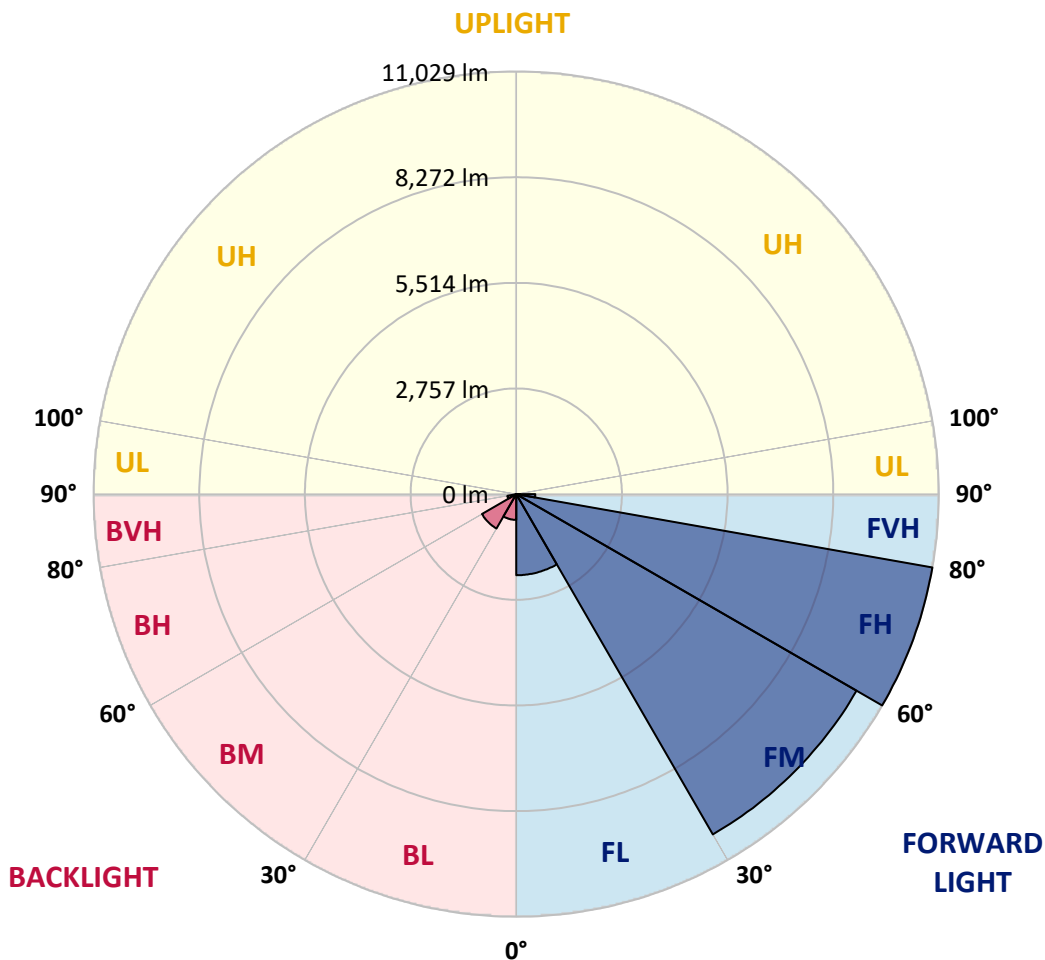


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2116.1	8.2			
FM (30°-60°)	10255.4	39.7			
FH (60°-80°)	11028.8	42.7			G4/12000
FVH (80°-90°)	498.3	1.9			G3/500
BL (0°-30°)	671.7	2.6	B2/1000		
BM (30°-60°)	1034.2	4.0	B2/2500		
BH (60°-80°)	234.2	0.9	B1/500		G1/500
BVH (80°-90°)	5.5	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4498.3	4498.3	4498.3	4498.3	4498.3	4498.3	4498.3	4498.3	4498.3	4498.3	4498.3
2.5°	4847.5	4895.0	4847.5	4827.2	4806.8	4810.2	4756.0	4766.1	4701.7	4617.0	4549.2
5°	5000.0	5064.5	5013.6	4989.9	4986.5	4922.1	4895.0	4830.6	4752.6	4620.4	4539.0
7.5°	4986.5	4972.9	4996.7	4976.3	4932.3	4932.3	4901.7	4810.2	4732.2	4583.1	4444.1
10°	4884.8	4925.5	4905.1	4881.4	4891.6	4895.0	4837.3	4772.9	4749.2	4600.0	4372.9
12.5°	4874.6	4806.8	4881.4	4884.8	4840.7	4837.3	4830.6	4813.6	4739.0	4603.4	4389.9
15°	4840.7	4813.6	4888.2	4891.6	4901.7	4891.6	4901.7	4888.2	4813.6	4735.6	4464.4
17.5°	4867.8	4837.3	4942.4	4993.3	4969.5	5017.0	5000.0	4939.0	4874.6	4783.1	4535.6
20°	4874.6	4918.7	5033.9	5054.3	5128.9	5050.9	5047.5	4983.1	4942.4	4844.1	4579.7
22.5°	5000.0	5020.4	5162.8	5206.8	5210.2	5200.0	5115.3	5040.7	5023.8	4901.7	4589.9
25°	5189.9	5261.1	5325.5	5352.6	5362.8	5315.3	5227.2	5132.3	5091.6	5013.6	4695.0
27.5°	5525.5	5481.4	5539.0	5579.7	5464.5	5481.4	5369.5	5288.2	5230.6	5162.8	4817.0
30°	5823.8	5783.1	5786.5	5779.7	5681.4	5589.9	5559.4	5417.0	5345.8	5372.9	5006.8
32.5°	6091.6	6003.4	6078.0	6044.1	5861.1	5834.0	5810.2	5630.6	5644.1	5769.5	5291.6
35°	6339.0	6308.5	6369.6	6308.5	6186.5	6179.7	6156.0	6000.1	6074.6	6254.3	5779.7
37.5°	6566.2	6576.3	6650.9	6620.4	6630.6	6637.4	6623.8	6457.7	6671.2	7074.6	6349.2
40°	6776.3	6762.8	6945.8	7040.7	7061.1	7135.7	7135.7	7095.0	7423.8	7878.0	7139.1
42.5°	7000.1	7034.0	7271.3	7430.6	7623.8	7688.2	7776.3	7796.7	8305.2	8823.8	7945.8
45°	7366.2	7308.5	7610.2	7986.5	8156.0	8383.1	8518.7	8634.0	9247.5	9959.4	8752.6
47.5°	7830.6	7715.3	7979.7	8525.5	8918.7	9105.2	9349.2	9501.8	10101.8	10837.4	9515.3
50°	8345.8	8227.2	8356.0	9108.6	9566.2	9905.2	10217.0	10410.3	11135.7	11820.5	10071.3
52.5°	8928.9	8820.4	8840.8	9715.3	10389.9	10637.4	11047.6	11335.7	12057.7	12413.7	10267.9
55°	9549.2	9522.1	9457.7	10308.6	11112.0	11667.9	11915.4	12261.1	13003.5	12735.7	10481.5
57.5°	10173.0	10088.2	10179.8	11095.0	12271.3	12603.5	12945.9	13152.7	13528.9	13017.1	10400.1
60°	10759.4	10766.2	10895.0	11949.3	13257.8	13728.9	14037.4	13912.0	14067.9	13139.1	10213.7
62.5°	11254.3	11240.8	11566.2	12908.6	14562.9	14881.5	15112.0	14552.7	14318.8	13257.8	9888.2
65°	11698.4	11851.0	12362.8	14051.0	15790.0	16156.1	16017.1	15159.5	14562.9	12908.6	8973.0
67.5°	12034.0	12261.1	13149.3	15125.6	16915.4	17173.0	16979.8	15620.5	14274.7	11539.1	7308.5
70°	12230.6	12461.1	13712.0	16020.5	17813.7	18000.2	17545.9	15264.6	12593.3	8356.0	4559.4
71°	12169.6	12451.0	13820.5	16115.4	18027.3	18166.3	17461.2	14606.9	11325.5	6996.7	3325.5
72.5°	11617.1	11881.5	13369.6	16047.6	17769.7	17684.9	16800.2	13027.2	8915.3	4461.1	1718.7
75°	8535.7	8820.4	11474.7	13881.5	15861.2	15278.1	13596.7	9142.5	4650.9	1366.1	501.7
77.5°	4250.9	4298.3	7122.1	10078.1	11634.0	11054.3	9112.0	5098.4	1739.0	403.4	250.8
80°	1959.3	1972.9	2671.2	5220.4	7034.0	6620.4	5105.1	2515.3	786.4	213.6	196.6
82.5°	1335.6	1355.9	1610.2	2162.7	3054.3	2576.3	2067.8	1610.2	450.9	128.8	193.2
85°	244.1	223.7	901.7	1145.8	1179.7	800.0	715.3	1393.2	169.5	74.6	169.5
87.5°	0.0	3.4	125.4	467.8	420.3	186.4	244.1	339.0	16.9	23.7	30.5
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°	4498.3	4498.3	4498.3	4498.3	4498.3	4498.3	4498.3	4498.3	4498.3	4498.3	4498.3
2.5°	4491.6	4454.3	4328.9	4189.9	4064.4	3966.1	3840.7	3783.1	3691.6	3640.7	3637.3
5°	4427.2	4325.5	4108.5	3874.6	3613.6	3396.6	3156.0	3020.4	2864.4	2817.0	2806.8
7.5°	4318.7	4172.9	3854.3	3525.5	3125.5	2742.4	2447.5	2132.2	1939.0	1857.6	1827.1
10°	4250.9	4074.6	3640.7	3149.2	2589.9	2050.9	1637.3	1301.7	1125.4	1040.7	1020.3
12.5°	4250.9	4061.1	3467.8	2789.9	2047.5	1403.4	1013.6	820.3	762.7	742.4	742.4
15°	4240.7	4033.9	3301.7	2420.4	1515.3	942.4	755.9	715.3	708.5	705.1	701.7
17.5°	4291.6	3986.5	3132.2	2023.7	1071.2	742.4	694.9	688.1	681.4	681.4	674.6
20°	4328.9	3959.4	2928.8	1603.4	800.0	688.1	667.8	657.6	654.2	650.9	657.6
22.5°	4298.3	3918.7	2678.0	1200.0	698.3	654.2	640.7	630.5	623.7	623.7	627.1
25°	4356.0	3881.4	2427.1	905.1	654.2	623.7	610.2	603.4	600.0	596.6	589.8
27.5°	4433.9	3898.3	2128.8	728.8	617.0	593.2	579.7	572.9	569.5	562.7	569.5
30°	4528.9	3895.0	1800.0	637.3	583.1	559.3	545.8	542.4	535.6	532.2	535.6
32.5°	4691.6	3983.1	1461.0	589.8	545.8	525.4	511.9	508.5	505.1	501.7	498.3
35°	5040.7	4091.6	1142.4	552.5	511.9	488.1	478.0	471.2	467.8	464.4	461.0
37.5°	5471.2	4332.2	871.2	518.6	478.0	454.2	444.1	440.7	427.1	423.7	420.3
40°	6010.2	4589.9	671.2	481.4	447.5	423.7	413.6	403.4	386.4	379.7	372.9
42.5°	6681.4	4840.7	552.5	447.5	413.6	396.6	379.7	362.7	349.2	335.6	328.8
45°	7352.6	5132.3	484.8	417.0	386.4	366.1	352.5	328.8	305.1	284.7	281.4
47.5°	7911.9	5237.3	444.1	383.1	359.3	342.4	322.0	291.5	257.6	237.3	233.9
50°	8328.9	5176.3	403.4	349.2	328.8	311.9	284.7	247.5	213.6	193.2	186.4
52.5°	8410.2	4908.5	366.1	322.0	298.3	278.0	247.5	206.8	169.5	149.2	145.8
55°	8352.6	4464.4	335.6	298.3	271.2	240.7	206.8	166.1	132.2	111.9	108.5
57.5°	8234.0	3939.0	301.7	267.8	237.3	206.8	169.5	135.6	98.3	78.0	78.0
60°	7830.6	3223.8	267.8	233.9	203.4	176.3	139.0	98.3	67.8	50.8	47.5
62.5°	7267.9	2478.0	233.9	200.0	176.3	145.8	108.5	71.2	40.7	27.1	27.1
65°	6240.7	1735.6	196.6	166.1	145.8	118.6	81.4	44.1	23.7	10.2	10.2
67.5°	4742.4	1074.6	162.7	139.0	125.4	94.9	57.6	27.1	10.2	3.4	0.0
70°	2722.1	559.3	128.8	111.9	98.3	71.2	40.7	13.6	6.8	0.0	0.0
71°	1901.7	413.6	115.3	98.3	88.1	64.4	33.9	10.2	3.4	0.0	0.0
72.5°	952.6	274.6	98.3	81.4	71.2	50.8	27.1	10.2	3.4	0.0	0.0
75°	339.0	176.3	67.8	54.2	50.8	37.3	16.9	6.8	3.4	0.0	0.0
77.5°	233.9	142.4	47.5	33.9	33.9	23.7	10.2	3.4	3.4	0.0	0.0
80°	213.6	78.0	30.5	20.3	16.9	13.6	6.8	3.4	0.0	0.0	0.0
82.5°	213.6	57.6	16.9	13.6	10.2	6.8	3.4	0.0	0.0	0.0	0.0
85°	149.2	30.5	10.2	10.2	6.8	3.4	0.0	0.0	0.0	0.0	0.0
87.5°	23.7	10.2	6.8	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)