

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: P484311

Luminaire Tested: **IFLD-L-SA8C-727-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484311  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-727-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

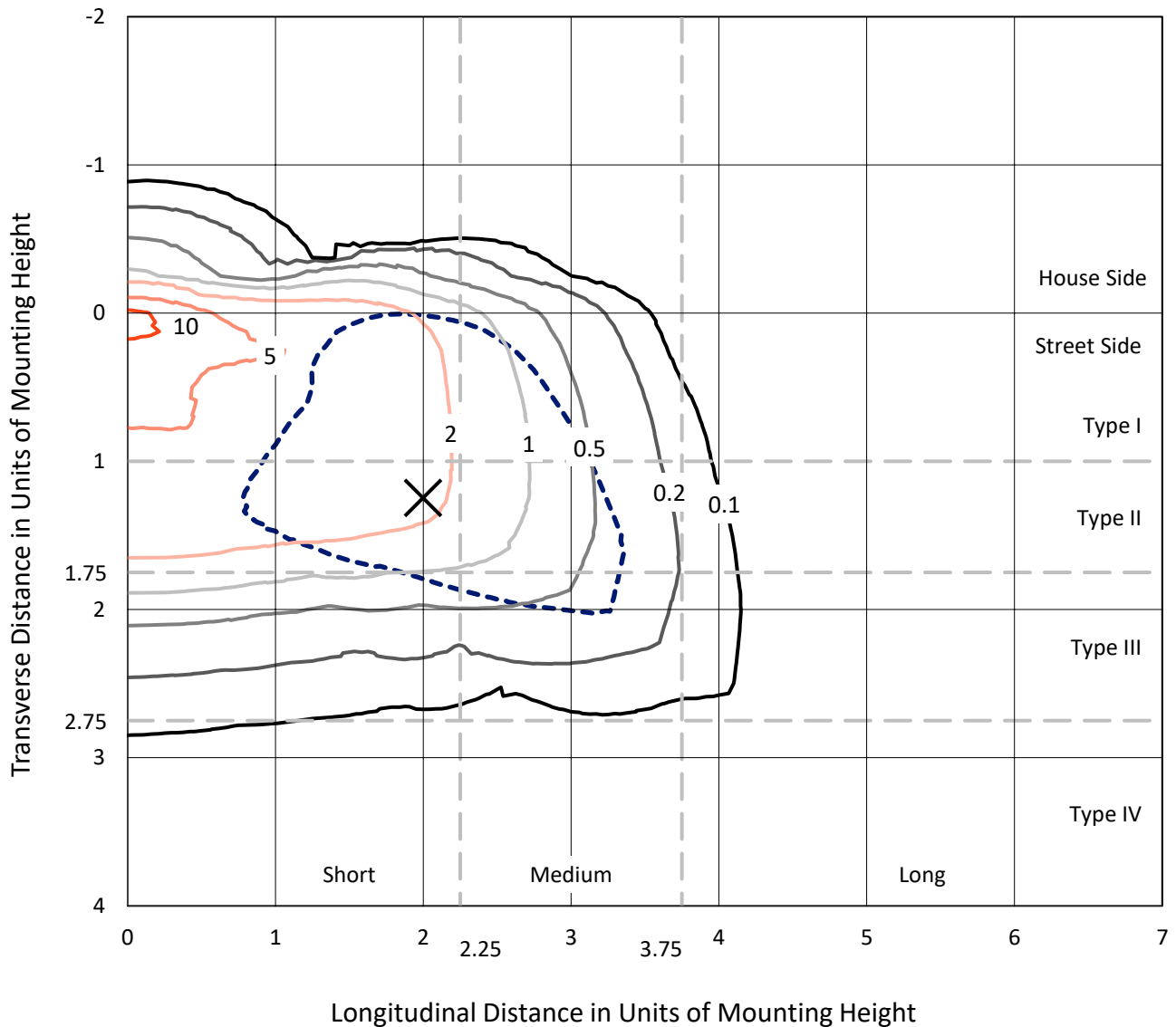
Lumens per Lamp: N/A  
Luminaire Lumens: 35434 lumens  
Efficiency: N/A  
Efficacy: 84.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3  
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

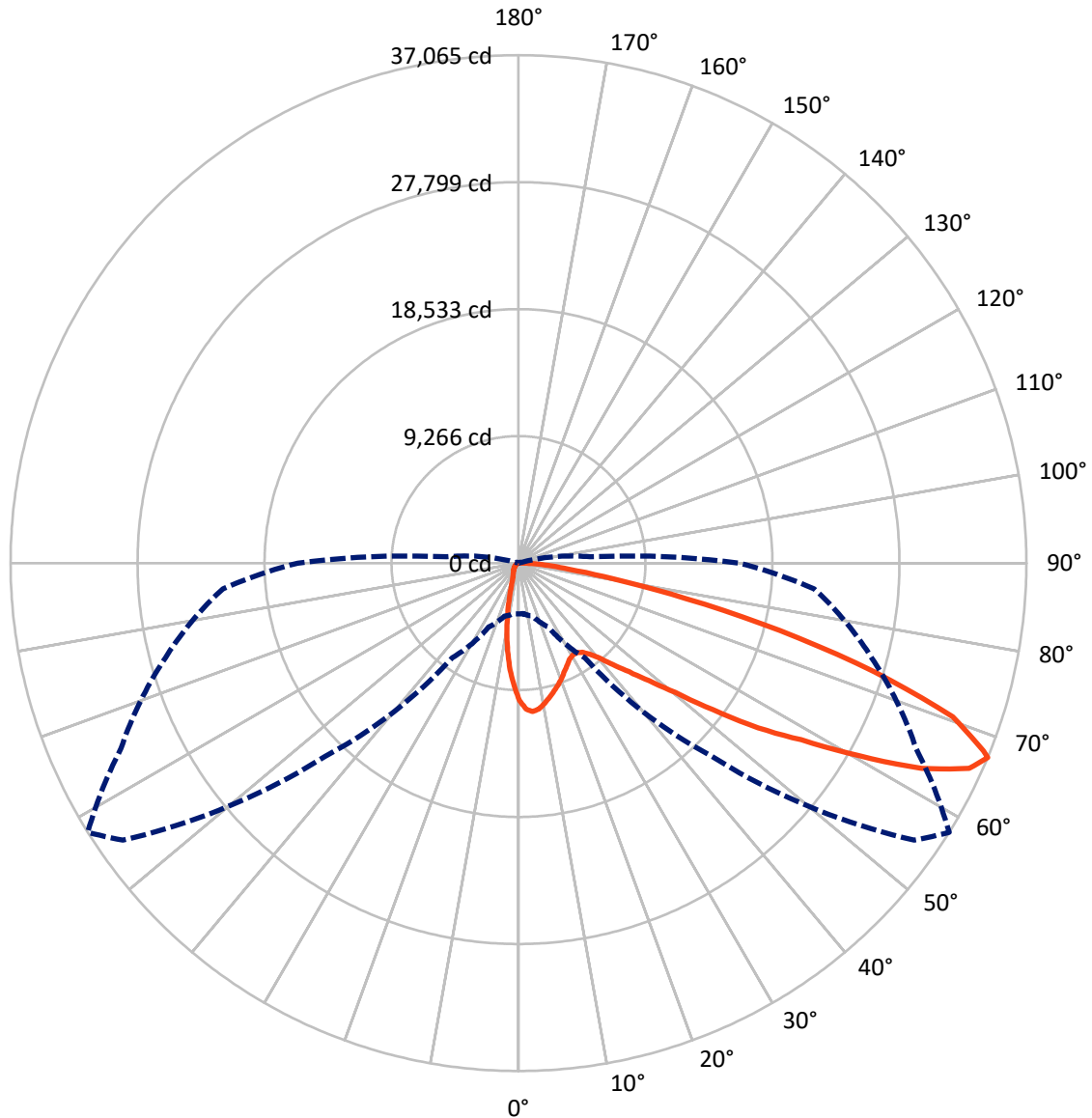
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.2 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	2928.8	0.0	2928.8
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	32505.2	0.0	32505.2
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	35434.0	0.0	35434.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	796.5	2.2
10°-20°	1652.2	4.7
20°-30°	2192.1	6.2
30°-40°	3037.5	8.6
40°-50°	4956.4	14.0
50°-60°	8711.7	24.6
60°-70°	9648.9	27.2
70°-80°	3998.5	11.3
80°-90°	440.2	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°	35434.0	100.0
0°-180°	35434.0	100.0

**Coefficient of Utilization**

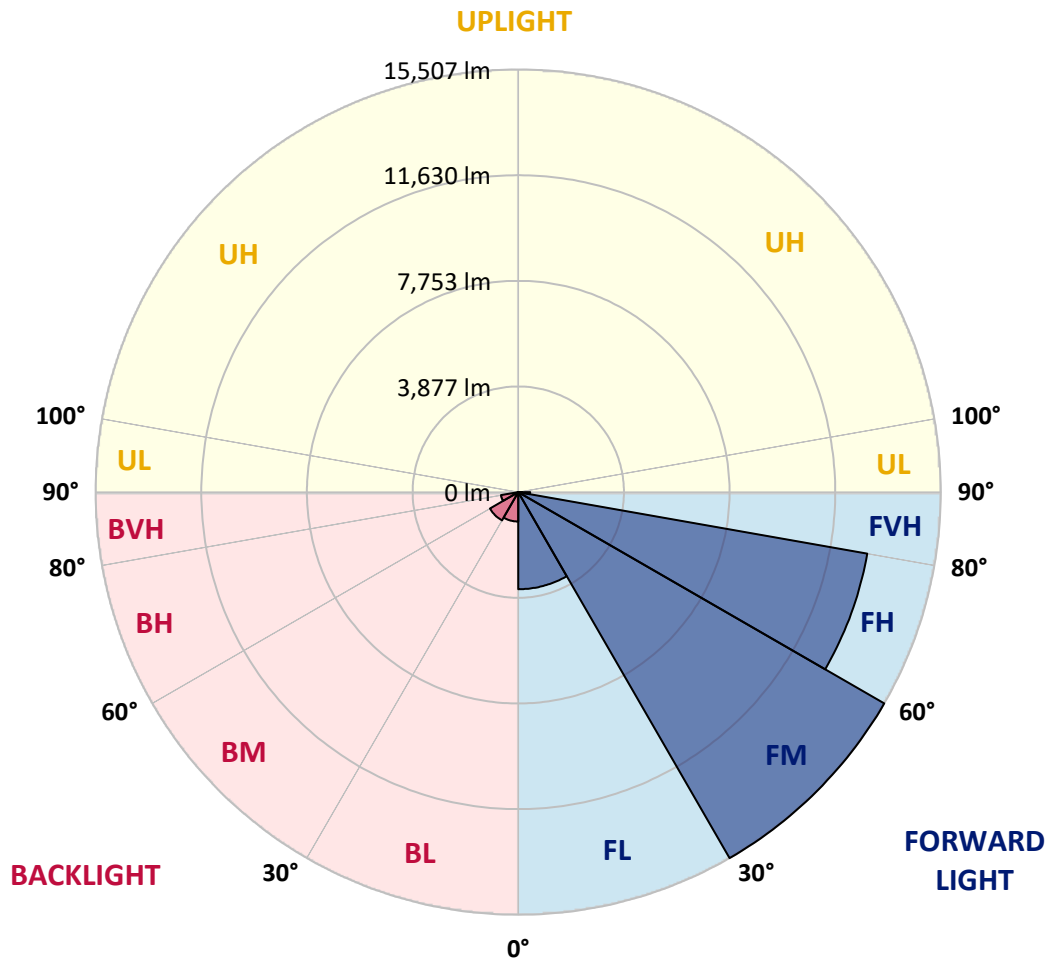


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3562.1	10.1			
FM (30°-60°)	15506.7	43.8			
FH (60°-80°)	13003.5	36.7			G5
FVH (80°-90°)	432.9	1.2			G3/500
BL (0°-30°)	1078.7	3.0	B3/2500		
BM (30°-60°)	1199.0	3.4	B2/2500		
BH (60°-80°)	643.9	1.8	B2/1000		G2/1000
BVH (80°-90°)	7.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10039.0	10039.0	10039.0	10039.0	10039.0	10039.0	10039.0	10039.0	10039.0	10039.0	10039.0
2.5°	10923.4	10961.0	10993.9	10932.8	10984.5	10909.2	10716.4	10674.0	10641.1	10354.1	10189.5
5°	10918.7	10876.3	10909.2	10937.5	10866.9	10923.4	10876.3	10881.0	10754.0	10495.3	10034.2
7.5°	10189.5	10170.7	10189.5	10325.9	10481.2	10603.5	10674.0	10744.6	10659.9	10274.2	9827.3
10°	9206.3	9300.4	9352.1	9596.8	9836.7	10062.5	10283.6	10415.3	10391.8	10236.5	9601.5
12.5°	8519.5	8491.2	8679.4	8839.4	9079.3	9535.6	9921.3	10043.7	10184.8	9968.4	9305.1
15°	7884.4	7809.1	7922.0	8199.6	8608.8	8971.1	9512.1	9695.5	9874.3	9930.8	9145.1
17.5°	7277.5	7315.2	7432.8	7682.1	8067.9	8575.9	9084.0	9347.4	9775.5	9700.2	8905.2
20°	6985.9	7065.8	7108.2	7235.2	7503.3	8011.4	8768.8	8980.5	9436.8	9695.5	8670.0
22.5°	7000.0	7000.0	6901.2	6976.5	7221.1	7616.2	8340.7	8575.9	9300.4	9450.9	8458.3
25°	7150.5	7056.4	7061.1	6971.8	7075.3	7291.6	7955.0	8241.9	9022.8	9474.4	8345.4
27.5°	7263.4	7244.6	7216.4	7192.9	7061.1	7094.1	7700.9	7936.1	8914.6	9446.2	8171.4
30°	7672.7	7588.0	7559.8	7508.0	7334.0	7174.0	7498.6	7795.0	8830.0	9512.1	8072.6
32.5°	8016.1	8030.2	8053.7	7903.2	7752.7	7357.5	7555.1	7790.3	8768.8	9662.6	8171.4
35°	8448.9	8510.1	8519.5	8472.4	8312.5	7922.0	7790.3	7992.6	8872.3	9930.8	8180.8
37.5°	9107.5	9041.6	9220.4	9239.2	9126.3	8608.8	8336.0	8416.0	9178.1	10358.8	8538.3
40°	9535.6	9615.6	9949.6	10156.6	9963.7	9493.3	9126.3	9112.2	9620.3	11031.6	8980.5
42.5°	10010.7	10189.5	10556.4	11003.3	10979.8	10542.3	10170.7	10109.5	10405.9	12005.3	9681.4
45°	10659.9	10819.9	11332.6	12005.3	12372.3	12000.6	11440.8	11318.5	11360.9	13332.0	10876.3
47.5°	11737.2	11694.9	12433.4	13096.7	13698.9	13411.9	13172.0	12814.5	12781.6	14893.8	12527.5
50°	12955.6	12946.2	13604.8	14357.5	15053.7	15613.5	15213.7	14823.2	14832.6	17015.4	14470.4
52.5°	14112.9	14296.3	15006.7	15754.7	16949.6	17551.7	17937.5	17782.2	17034.2	18911.2	16549.7
55°	14724.4	14884.4	15590.0	16879.0	18765.4	20313.1	21357.5	21225.8	19781.5	21047.0	18600.8
57.5°	14145.8	14254.0	15209.0	16897.8	20035.6	23488.5	24490.5	24325.9	22622.9	22679.4	21079.9
60°	11723.1	11892.4	13313.1	15293.6	19541.6	25934.7	28804.4	28555.0	25210.3	24744.6	22674.7
62.5°	8119.6	8232.5	9399.2	11864.2	17198.9	26786.2	32878.3	33014.7	27938.8	26353.4	23149.8
65°	5259.4	5250.0	5918.0	7588.0	12188.8	24208.3	35286.9	36133.6	30573.2	26598.1	23004.0
67°	3716.4	3702.3	4017.5	5146.5	8439.5	19946.2	35244.5	37065.1	32003.3	26668.6	21653.8
67.5°	3429.4	3415.3	3716.4	4732.5	7616.2	18549.0	34717.7	36585.3	32506.6	26569.8	21061.1
70°	2662.6	2625.0	2737.9	3260.1	4436.1	11995.9	29712.3	33607.4	31462.3	24104.8	16817.8
72.5°	1924.1	1966.4	2145.2	2676.7	3481.2	6454.3	22646.4	27176.7	26278.2	18168.0	10688.1
75°	1340.7	1378.4	1665.3	2182.8	3194.2	3914.0	15312.5	19711.0	18304.4	10029.5	4553.8
77.5°	700.9	748.0	1063.2	1745.3	2902.5	3029.6	9149.8	12499.3	9700.2	3570.6	1256.0
80°	324.6	348.1	531.6	1237.2	2427.4	2662.6	5334.7	6952.9	3881.0	799.7	432.8
82.5°	141.1	155.2	244.6	710.3	1721.8	2328.6	3302.4	3645.8	1406.6	258.7	268.1
85°	28.2	32.9	94.1	376.3	832.7	1411.3	2319.2	2164.0	705.6	127.0	211.7
87.5°	0.0	0.0	23.5	108.2	225.8	418.7	983.2	983.2	216.4	65.9	80.0
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°	10039.0	10039.0	10039.0	10039.0	10039.0	10039.0	10039.0	10039.0	10039.0	10039.0	10039.0
2.5°	10043.7	9874.3	9502.7	9159.3	8914.6	8637.1	8270.1	8105.5	8044.3	7959.7	7832.6
5°	9780.2	9573.2	8938.2	8298.4	7597.4	7065.8	6501.3	6172.0	5922.7	5767.5	5715.7
7.5°	9408.6	8985.2	8129.0	7103.5	6195.5	5405.2	4549.0	3970.4	3598.8	3448.2	3307.1
10°	9112.2	8561.8	7258.7	5983.9	4774.9	3617.6	2653.2	2145.2	1759.4	1613.6	1594.8
12.5°	8726.5	8067.9	6444.9	4840.7	3321.2	2154.6	1467.7	1274.9	1166.7	1147.8	1133.7
15°	8406.6	7620.9	5673.4	3749.3	2149.9	1345.4	1143.1	1096.1	1067.9	1058.5	1063.2
17.5°	8190.2	7141.1	4883.1	2728.5	1416.0	1100.8	1053.8	1025.5	1011.4	1006.7	992.6
20°	7762.1	6736.5	4102.1	1909.9	1105.5	1016.1	978.5	955.0	940.9	936.2	931.4
22.5°	7517.5	6223.8	3321.2	1331.3	983.2	922.0	893.8	875.0	851.5	837.4	832.7
25°	7272.8	5847.4	2625.0	1034.9	893.8	851.5	809.1	785.6	748.0	729.2	724.5
27.5°	6985.9	5475.8	2022.8	898.5	804.4	762.1	719.8	682.1	635.1	616.3	606.9
30°	6821.2	5113.6	1524.2	804.4	738.6	682.1	630.4	583.3	531.6	498.7	489.2
32.5°	6736.5	4784.3	1143.1	733.9	668.0	606.9	541.0	484.5	437.5	409.3	404.6
35°	6633.0	4464.4	898.5	668.0	602.1	536.3	470.4	414.0	366.9	343.4	334.0
37.5°	6741.2	4276.2	748.0	616.3	550.4	475.1	404.6	348.1	310.5	287.0	282.3
40°	7037.6	4121.0	649.2	569.2	498.7	418.7	352.8	296.4	263.4	244.6	235.2
42.5°	7493.9	4121.0	588.0	522.2	451.6	366.9	301.1	258.7	225.8	207.0	202.3
45°	8321.9	4248.0	536.3	475.1	395.2	315.2	258.7	216.4	183.5	164.7	159.9
47.5°	9483.8	4539.6	494.0	432.8	352.8	277.6	225.8	183.5	150.5	131.7	127.0
50°	11045.7	5202.9	451.6	381.0	315.2	239.9	188.2	145.8	117.6	98.8	94.1
52.5°	12993.2	6143.8	409.3	352.8	268.1	202.3	150.5	117.6	89.4	75.3	70.6
55°	15053.7	7296.4	357.5	315.2	230.5	169.4	122.3	89.4	65.9	56.5	51.7
57.5°	17128.3	8185.5	315.2	272.8	188.2	136.4	98.8	70.6	47.0	37.6	32.9
60°	18229.1	8270.1	272.8	225.8	150.5	108.2	75.3	51.7	32.9	23.5	18.8
62.5°	18398.5	7517.5	235.2	183.5	122.3	84.7	51.7	37.6	18.8	9.4	9.4
65°	17528.2	6266.1	202.3	145.8	94.1	61.2	37.6	23.5	9.4	4.7	0.0
67°	16116.9	5250.0	174.1	122.3	75.3	47.0	28.2	14.1	4.7	0.0	0.0
67.5°	15571.2	4967.7	164.7	112.9	70.6	42.3	23.5	14.1	4.7	0.0	0.0
70°	12085.3	3547.0	122.3	80.0	51.7	32.9	18.8	9.4	0.0	0.0	0.0
72.5°	7404.6	2074.6	94.1	56.5	37.6	23.5	14.1	4.7	0.0	0.0	0.0
75°	3104.8	715.1	80.0	42.3	28.2	14.1	9.4	4.7	0.0	0.0	0.0
77.5°	809.1	268.1	56.5	28.2	18.8	14.1	9.4	4.7	0.0	0.0	0.0
80°	329.3	122.3	37.6	18.8	18.8	14.1	9.4	4.7	0.0	0.0	0.0
82.5°	216.4	56.5	23.5	18.8	14.1	9.4	4.7	0.0	0.0	0.0	0.0
85°	164.7	32.9	14.1	14.1	9.4	4.7	0.0	0.0	0.0	0.0	0.0
87.5°	70.6	18.8	14.1	9.4	9.4	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)