

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: P484297

Luminaire Tested: **IFLD-S-SA6D-727-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484297
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-727-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

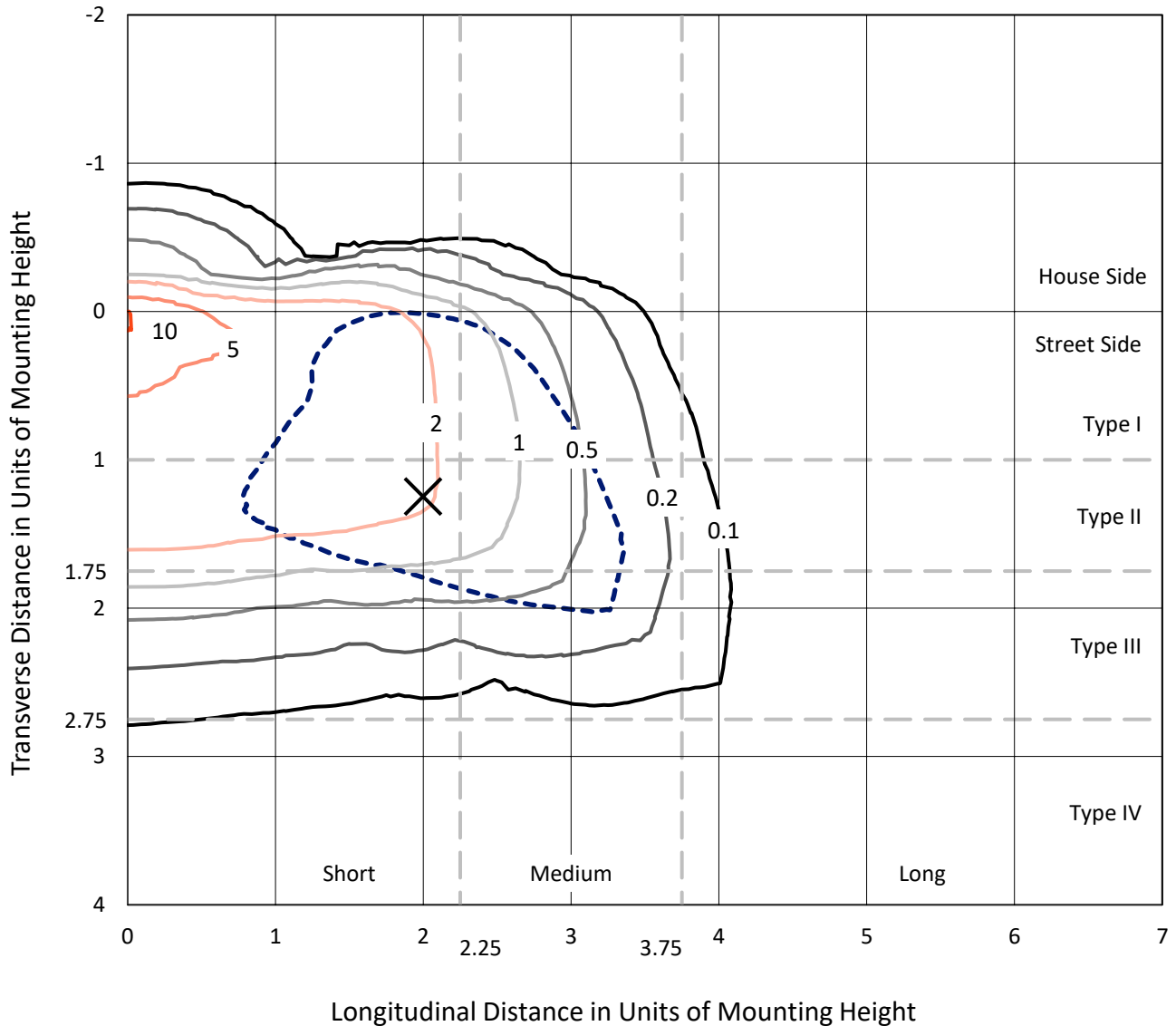
Lumens per Lamp: N/A
Luminaire Lumens: 31977.6 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 368.2
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

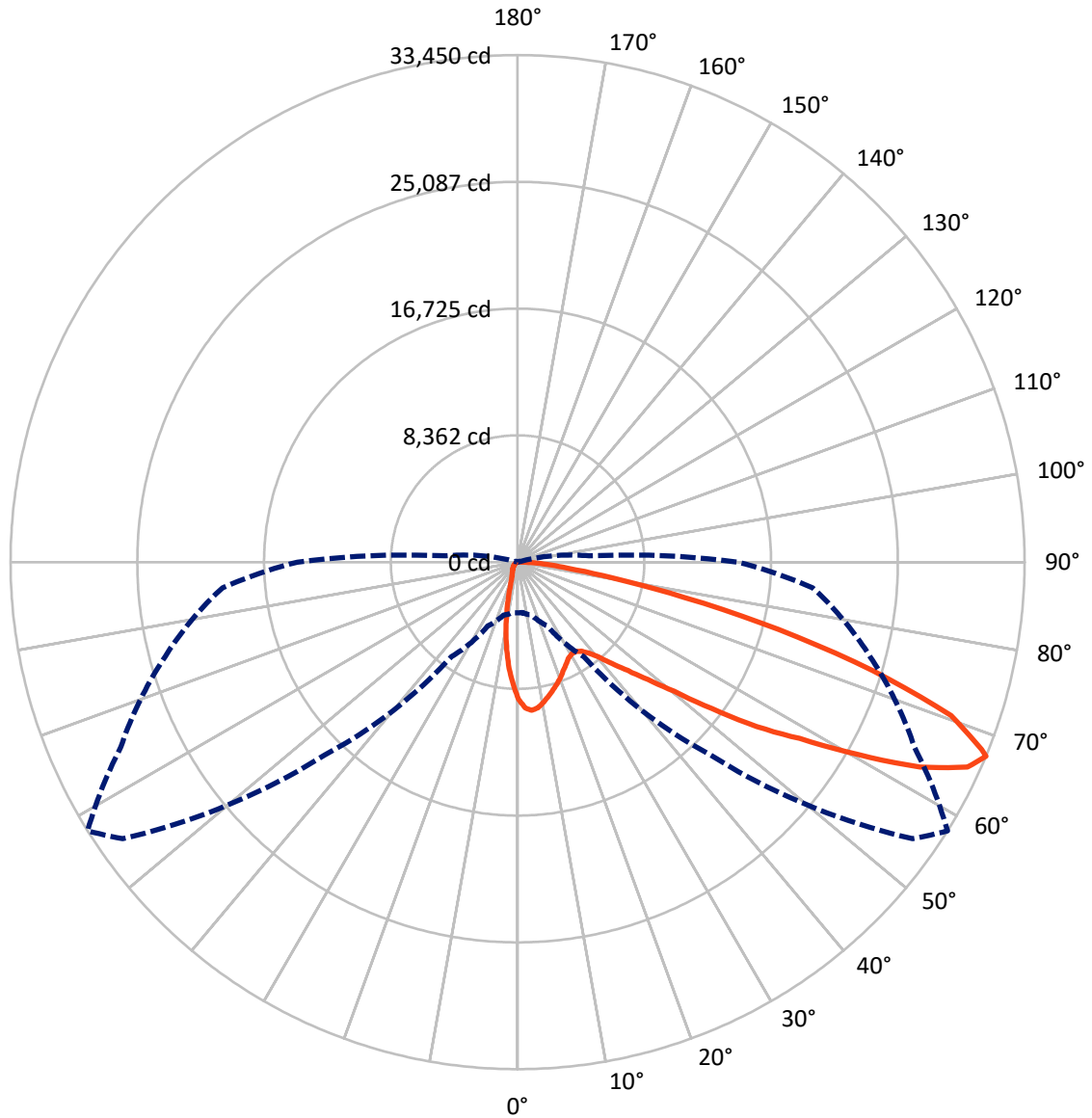
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.1 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
House Side	Lumens	2643.1	0.0	2643.1
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	29334.4	0.0	29334.4
	% Fixture	91.7	0.0	91.7
Total	Lumens	31977.6	0.0	31977.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	718.8	2.2
10°-20°	1491.0	4.7
20°-30°	1978.3	6.2
30°-40°	2741.2	8.6
40°-50°	4472.9	14.0
50°-60°	7861.9	24.6
60°-70°	8707.7	27.2
70°-80°	3608.5	11.3
80°-90°	397.2	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°	31977.6	100.0
0°-180°	31977.6	100.0

Coefficient of Utilization



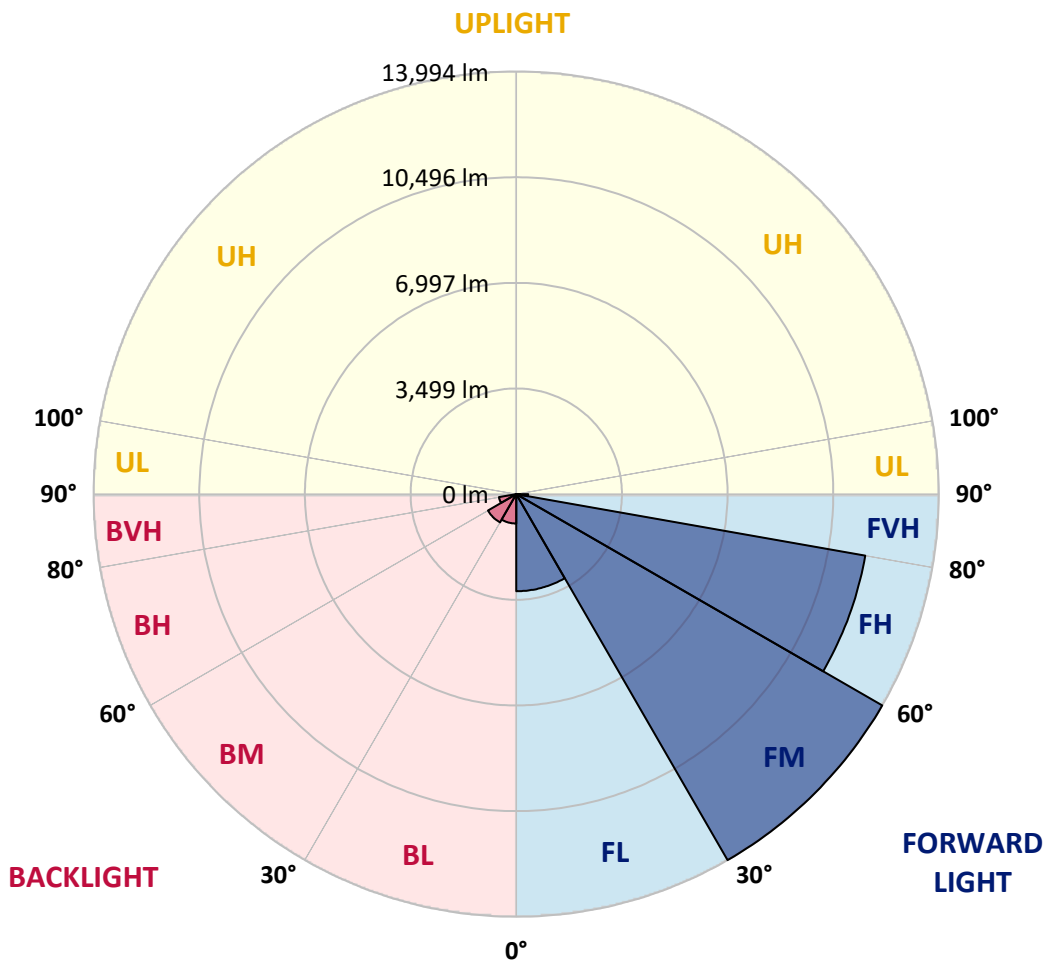
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3214.6	10.1			
FM	(30°-60°)	13994.0	43.8			
FH	(60°-80°)	11735.0	36.7			G4/12000
FVH	(80°-90°)	390.7	1.2			G3/500
BL	(0°-30°)	973.5	3.0	B2/1000		
BM	(30°-60°)	1082.0	3.4	B2/2500		
BH	(60°-80°)	581.1	1.8	B2/1000		G2/1000
BVH	(80°-90°)	6.5	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9059.7	9059.7	9059.7	9059.7	9059.7	9059.7	9059.7	9059.7	9059.7	9059.7	9059.7
2.5°	9857.8	9891.8	9921.5	9866.3	9913.0	9845.1	9671.0	9632.8	9603.1	9344.1	9195.5
5°	9853.6	9815.4	9845.1	9870.6	9806.9	9857.8	9815.4	9819.6	9705.0	9471.5	9055.4
7.5°	9195.5	9178.6	9195.5	9318.6	9458.7	9569.1	9632.8	9696.5	9620.1	9272.0	8868.6
10°	8308.2	8393.2	8439.9	8660.6	8877.1	9080.9	9280.4	9399.3	9378.1	9238.0	8664.9
12.5°	7688.4	7662.9	7832.8	7977.1	8193.6	8605.4	8953.5	9063.9	9191.3	8996.0	8397.4
15°	7115.3	7047.4	7149.3	7399.7	7769.1	8096.0	8584.2	8749.8	8911.1	8962.0	8253.1
17.5°	6567.6	6601.6	6707.7	6932.7	7280.9	7739.4	8197.9	8435.6	8821.9	8754.0	8036.5
20°	6304.4	6376.6	6414.8	6529.4	6771.4	7229.9	7913.4	8104.5	8516.3	8749.8	7824.3
22.5°	6317.2	6317.2	6228.0	6295.9	6516.7	6873.3	7527.1	7739.4	8393.2	8529.0	7633.2
25°	6453.0	6368.1	6372.3	6291.7	6385.1	6580.4	7179.0	7437.9	8142.7	8550.2	7531.3
27.5°	6554.9	6537.9	6512.4	6491.2	6372.3	6402.1	6949.7	7162.0	8045.0	8524.8	7374.3
30°	6924.2	6847.8	6822.4	6775.7	6618.6	6474.2	6767.2	7034.6	7968.6	8584.2	7285.1
32.5°	7234.2	7246.9	7268.1	7132.3	6996.4	6639.8	6818.1	7030.4	7913.4	8720.0	7374.3
35°	7624.7	7679.9	7688.4	7646.0	7501.6	7149.3	7030.4	7212.9	8006.8	8962.0	7382.7
37.5°	8219.1	8159.7	8321.0	8338.0	8236.1	7769.1	7522.8	7595.0	8282.8	9348.4	7705.4
40°	8605.4	8677.6	8979.0	9165.8	8991.8	8567.2	8236.1	8223.3	8681.8	9955.5	8104.5
42.5°	9034.2	9195.5	9526.7	9930.0	9908.8	9513.9	9178.6	9123.4	9390.8	10834.3	8737.0
45°	9620.1	9764.4	10227.2	10834.3	11165.4	10830.0	10324.8	10214.4	10252.6	12031.5	9815.4
47.5°	10592.3	10554.1	11220.6	11819.2	12362.6	12103.6	11887.1	11564.5	11534.7	13440.9	11305.5
50°	11691.8	11683.3	12277.7	12957.0	13585.3	14090.5	13729.6	13377.3	13385.7	15355.6	13058.8
52.5°	12736.2	12901.8	13542.8	14217.8	15296.2	15839.6	16187.7	16047.6	15372.6	17066.5	14935.3
55°	13288.1	13432.4	14069.3	15232.5	16934.9	18331.6	19274.1	19155.2	17851.9	18993.9	16786.3
57.5°	12765.9	12863.6	13725.4	15249.5	18081.2	21197.3	22101.5	21953.0	20416.1	20467.1	19023.6
60°	10579.5	10732.4	12014.5	13801.8	17635.4	23404.9	25994.6	25769.6	22751.1	22330.8	20462.8
62.5°	7327.6	7429.4	8482.3	10706.9	15521.2	24173.3	29671.1	29794.2	25213.4	23782.7	20891.6
65°	4746.4	4737.9	5340.7	6847.8	10999.8	21846.8	31844.7	32608.9	27590.8	24003.5	20760.0
67°	3353.9	3341.1	3625.6	4644.5	7616.2	18000.5	31806.5	33449.5	28881.4	24067.2	19541.6
67.5°	3094.9	3082.2	3353.9	4270.9	6873.3	16739.6	31331.0	33016.5	29335.7	23978.0	19006.6
70°	2402.9	2368.9	2470.8	2942.1	4003.4	10825.8	26813.9	30329.1	28393.2	21753.4	15177.3
72.5°	1736.4	1774.6	1935.9	2415.6	3141.6	5824.7	20437.3	24525.7	23714.8	16395.7	9645.5
75°	1209.9	1243.9	1502.9	1969.9	2882.6	3532.2	13818.8	17788.2	16518.8	9051.2	4109.5
77.5°	632.6	675.0	959.5	1575.0	2619.4	2734.0	8257.3	11280.0	8754.0	3222.3	1133.5
80°	292.9	314.2	479.7	1116.5	2190.6	2402.9	4814.3	6274.7	3502.5	721.7	390.6
82.5°	127.4	140.1	220.8	641.1	1553.8	2101.5	2980.3	3290.2	1269.4	233.5	242.0
85°	25.5	29.7	84.9	339.6	751.4	1273.6	2093.0	1952.9	636.8	114.6	191.0
87.5°	0.0	0.0	21.2	97.6	203.8	377.8	887.3	887.3	195.3	59.4	72.2
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°	9059.7	9059.7	9059.7	9059.7	9059.7	9059.7	9059.7	9059.7	9059.7	9059.7	9059.7
2.5°	9063.9	8911.1	8575.7	8265.8	8045.0	7794.6	7463.4	7314.8	7259.6	7183.2	7068.6
5°	8826.2	8639.4	8066.3	7488.9	6856.3	6376.6	5867.1	5570.0	5345.0	5204.9	5158.2
7.5°	8490.8	8108.7	7336.0	6410.6	5591.2	4878.0	4105.3	3583.1	3247.7	3111.9	2984.5
10°	8223.3	7726.6	6550.6	5400.1	4309.1	3264.7	2394.4	1935.9	1587.8	1456.2	1439.2
12.5°	7875.2	7280.9	5816.2	4368.5	2997.3	1944.4	1324.6	1150.5	1052.9	1035.9	1023.1
15°	7586.5	6877.5	5120.0	3383.6	1940.1	1214.2	1031.6	989.2	963.7	955.2	959.5
17.5°	7391.2	6444.5	4406.7	2462.3	1277.9	993.4	951.0	925.5	912.8	908.5	895.8
20°	7004.9	6079.4	3702.0	1723.6	997.7	917.0	883.0	861.8	849.1	844.8	840.6
22.5°	6784.1	5616.7	2997.3	1201.4	887.3	832.1	806.6	789.6	768.4	755.7	751.4
25°	6563.4	5277.0	2368.9	934.0	806.6	768.4	730.2	709.0	675.0	658.0	653.8
27.5°	6304.4	4941.6	1825.5	810.9	726.0	687.8	649.5	615.6	573.1	556.1	547.7
30°	6155.8	4614.7	1375.5	726.0	666.5	615.6	568.9	526.4	479.7	450.0	441.5
32.5°	6079.4	4317.6	1031.6	662.3	602.8	547.7	488.2	437.3	394.8	369.3	365.1
35°	5986.0	4028.9	810.9	602.8	543.4	484.0	424.5	373.6	331.1	309.9	301.4
37.5°	6083.7	3859.1	675.0	556.1	496.7	428.8	365.1	314.2	280.2	259.0	254.7
40°	6351.1	3719.0	585.9	513.7	450.0	377.8	318.4	267.5	237.7	220.8	212.3
42.5°	6762.9	3719.0	530.7	471.2	407.6	331.1	271.7	233.5	203.8	186.8	182.6
45°	7510.1	3833.6	484.0	428.8	356.6	284.4	233.5	195.3	165.6	148.6	144.3
47.5°	8558.7	4096.8	445.8	390.6	318.4	250.5	203.8	165.6	135.9	118.9	114.6
50°	9968.2	4695.4	407.6	343.9	284.4	216.5	169.8	131.6	106.1	89.2	84.9
52.5°	11725.8	5544.5	369.3	318.4	242.0	182.6	135.9	106.1	80.7	67.9	63.7
55°	13585.3	6584.6	322.7	284.4	208.0	152.8	110.4	80.7	59.4	50.9	46.7
57.5°	15457.5	7387.0	284.4	246.2	169.8	123.1	89.2	63.7	42.5	34.0	29.7
60°	16450.9	7463.4	246.2	203.8	135.9	97.6	67.9	46.7	29.7	21.2	17.0
62.5°	16603.8	6784.1	212.3	165.6	110.4	76.4	46.7	34.0	17.0	8.5	8.5
65°	15818.4	5654.9	182.6	131.6	84.9	55.2	34.0	21.2	8.5	4.2	0.0
67°	14544.7	4737.9	157.1	110.4	67.9	42.5	25.5	12.7	4.2	0.0	0.0
67.5°	14052.3	4483.1	148.6	101.9	63.7	38.2	21.2	12.7	4.2	0.0	0.0
70°	10906.4	3201.0	110.4	72.2	46.7	29.7	17.0	8.5	0.0	0.0	0.0
72.5°	6682.3	1872.2	84.9	50.9	34.0	21.2	12.7	4.2	0.0	0.0	0.0
75°	2802.0	645.3	72.2	38.2	25.5	12.7	8.5	4.2	0.0	0.0	0.0
77.5°	730.2	242.0	50.9	25.5	17.0	12.7	8.5	4.2	0.0	0.0	0.0
80°	297.2	110.4	34.0	17.0	17.0	12.7	8.5	4.2	0.0	0.0	0.0
82.5°	195.3	50.9	21.2	17.0	12.7	8.5	4.2	0.0	0.0	0.0	0.0
85°	148.6	29.7	12.7	12.7	8.5	4.2	0.0	0.0	0.0	0.0	0.0
87.5°	63.7	17.0	12.7	8.5	8.5	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)