

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: P484355

Luminaire Tested: **IFLD-S-SA2D-735-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484355
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-735-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

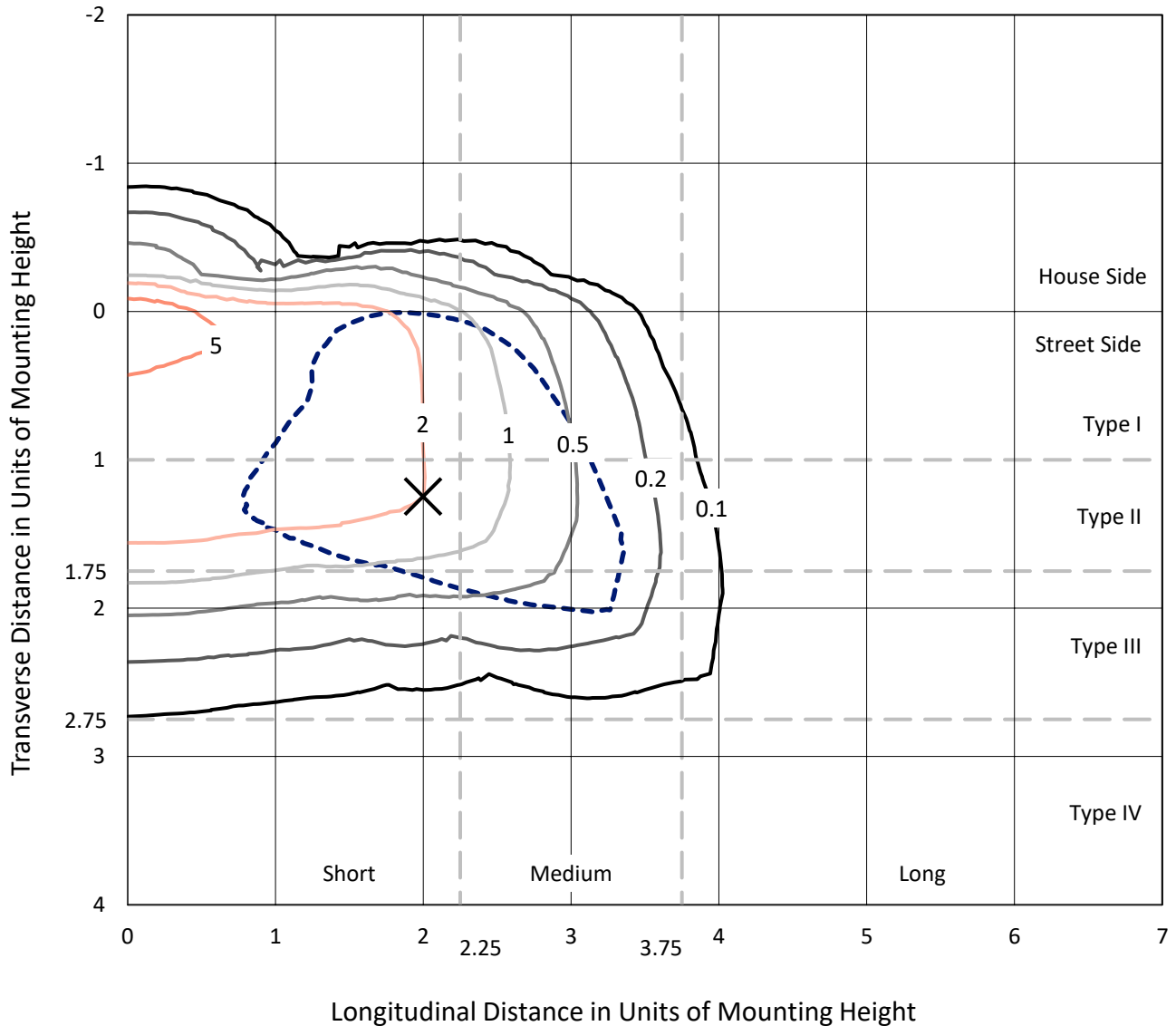
Lumens per Lamp: N/A
Luminaire Lumens: 12900.1 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
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

REPORT NUMBER: P484355
 CATALOG NUMBER: IFLD-S-SA2D-735-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

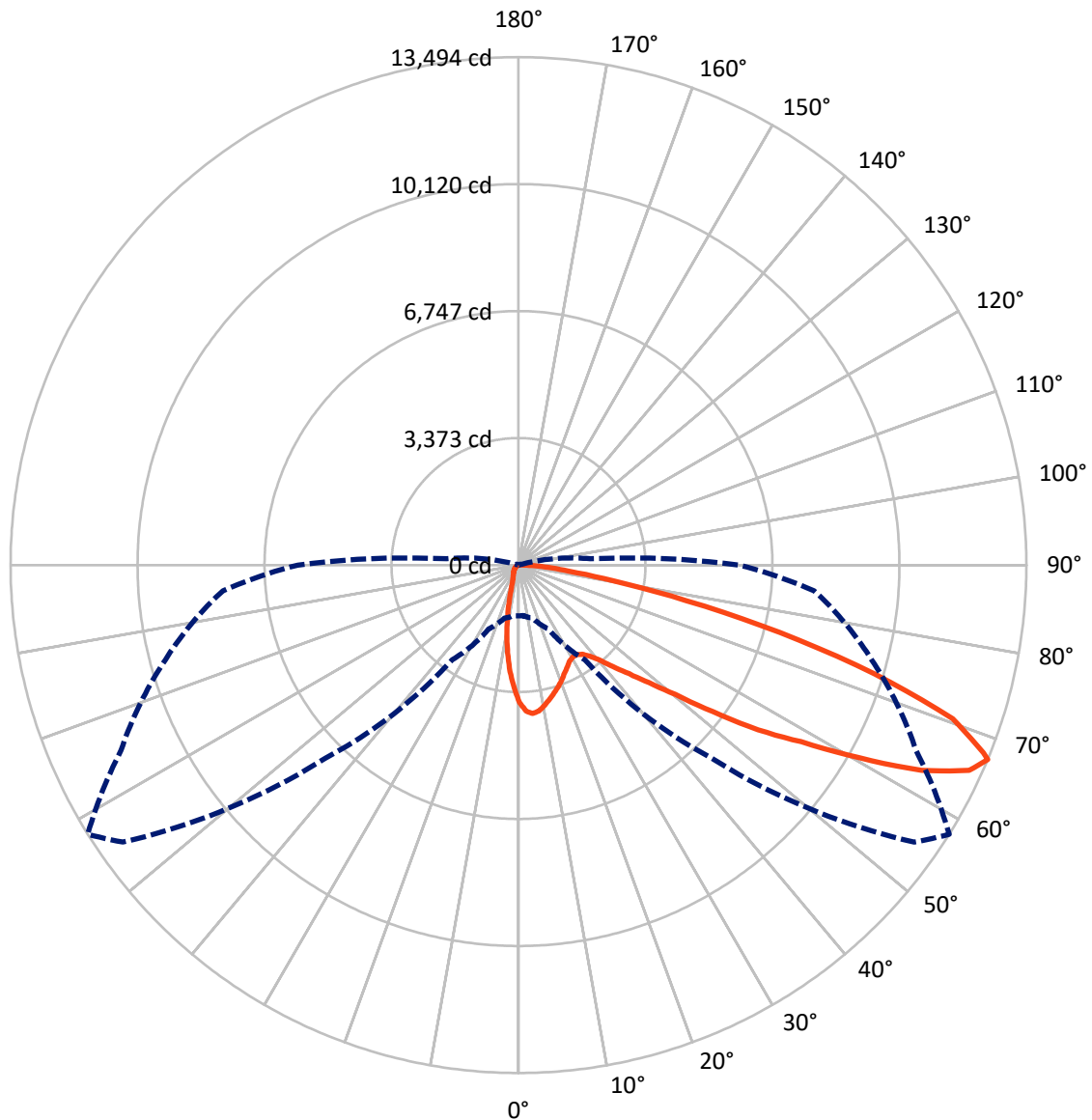
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - N/A

REPORT NUMBER: P484355
CATALOG NUMBER: IFLD-S-SA2D-735-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P484355
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1066.3	0.0	1066.3
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	11833.8	0.0	11833.8
	% Fixture	91.7	0.0	91.7
Total	Lumens	12900.1	0.0	12900.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.0	2.2
10°-20°	601.5	4.7
20°-30°	798.0	6.2
30°-40°	1105.8	8.6
40°-50°	1804.4	14.0
50°-60°	3171.6	24.6
60°-70°	3512.8	27.2
70°-80°	1455.7	11.3
80°-90°	160.2	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°	12900.1	100.0
0°-180°	12900.1	100.0



REPORT NUMBER: P484355

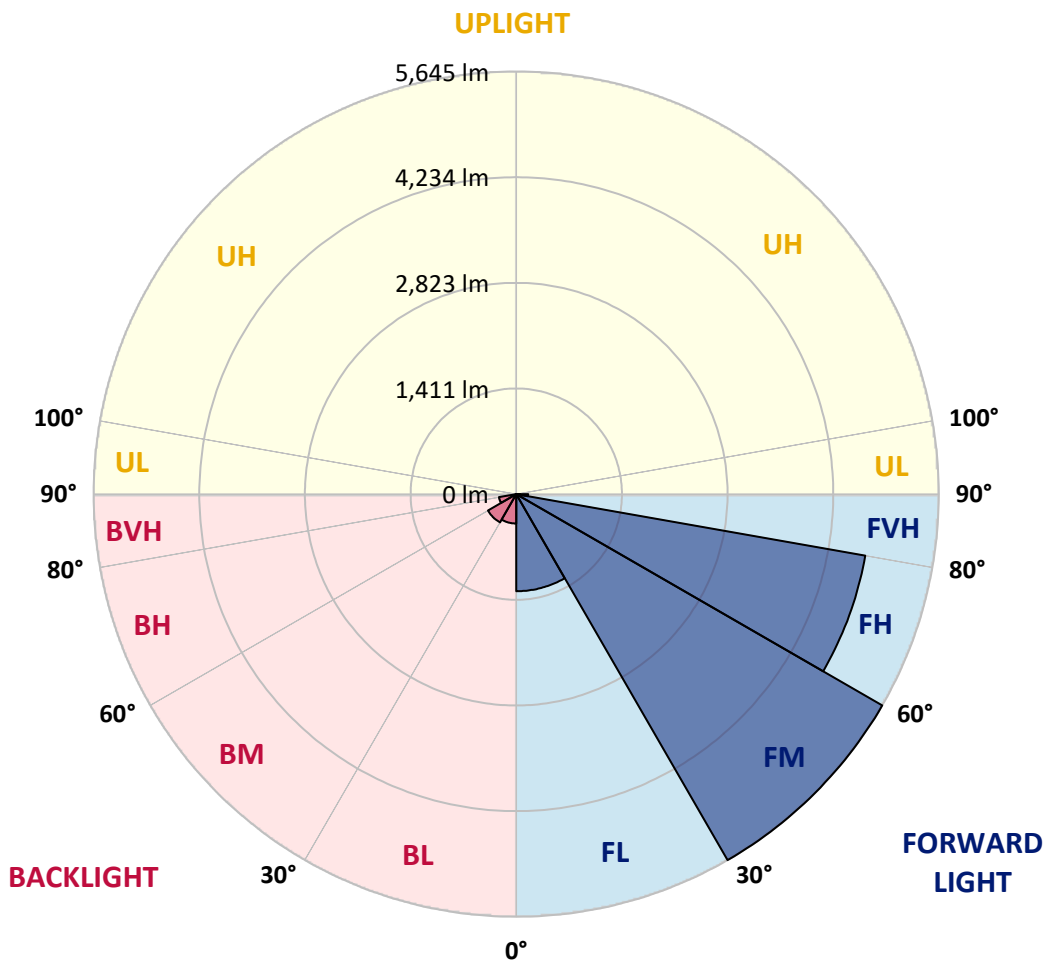
CATALOG NUMBER: IFLD-S-SA2D-735-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1296.8	10.1			
FM (30°-60°)	5645.3	43.8			
FH (60°-80°)	4734.0	36.7			G2/5000
FVH (80°-90°)	157.6	1.2			G2/225
BL (0°-30°)	392.7	3.0	B1/500		
BM (30°-60°)	436.5	3.4	B1/1000		
BH (60°-80°)	234.4	1.8	B1/500		G1/500
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P484355

CATALOG NUMBER: IFLD-S-SA2D-735-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3654.8	3654.8	3654.8	3654.8	3654.8	3654.8	3654.8	3654.8	3654.8	3654.8	3654.8
2.5°	3976.7	3990.4	4002.4	3980.2	3999.0	3971.6	3901.4	3886.0	3874.0	3769.5	3709.6
5°	3975.0	3959.6	3971.6	3981.9	3956.2	3976.7	3959.6	3961.3	3915.1	3820.9	3653.1
7.5°	3709.6	3702.7	3709.6	3759.2	3815.8	3860.3	3886.0	3911.7	3880.8	3740.4	3577.7
10°	3351.6	3385.9	3404.7	3493.8	3581.1	3663.3	3743.8	3791.8	3783.2	3726.7	3495.5
12.5°	3101.6	3091.3	3159.8	3218.0	3305.4	3471.5	3612.0	3656.5	3707.9	3629.1	3387.6
15°	2870.4	2843.0	2884.1	2985.1	3134.1	3266.0	3463.0	3529.7	3594.8	3615.4	3329.4
17.5°	2649.4	2663.2	2706.0	2796.7	2937.2	3122.1	3307.1	3403.0	3558.9	3531.5	3242.0
20°	2543.3	2572.4	2587.8	2634.0	2731.7	2916.6	3192.4	3269.4	3435.5	3529.7	3156.4
22.5°	2548.4	2548.4	2512.4	2539.8	2628.9	2772.8	3036.5	3122.1	3385.9	3440.7	3079.3
25°	2603.2	2569.0	2570.7	2538.1	2575.8	2654.6	2896.1	3000.5	3284.8	3449.3	3038.2
27.5°	2644.3	2637.5	2627.2	2618.6	2570.7	2582.7	2803.6	2889.2	3245.4	3439.0	2974.8
30°	2793.3	2762.5	2752.2	2733.4	2670.0	2611.8	2729.9	2837.8	3214.6	3463.0	2938.9
32.5°	2918.3	2923.5	2932.0	2877.2	2822.4	2678.6	2750.5	2836.1	3192.4	3517.8	2974.8
35°	3075.9	3098.2	3101.6	3084.5	3026.2	2884.1	2836.1	2909.8	3230.0	3615.4	2978.3
37.5°	3315.7	3291.7	3356.8	3363.6	3322.5	3134.1	3034.8	3063.9	3341.4	3771.2	3108.4
40°	3471.5	3500.6	3622.2	3697.6	3627.4	3456.1	3322.5	3317.4	3502.3	4016.1	3269.4
42.5°	3644.5	3709.6	3843.2	4005.9	3997.3	3838.0	3702.7	3680.5	3788.4	4370.6	3524.6
45°	3880.8	3939.1	4125.7	4370.6	4504.2	4368.9	4165.1	4120.6	4136.0	4853.6	3959.6
47.5°	4273.0	4257.6	4526.5	4768.0	4987.2	4882.7	4795.4	4665.2	4653.2	5422.2	4560.8
50°	4716.6	4713.2	4952.9	5227.0	5480.4	5684.2	5538.7	5396.5	5399.9	6194.6	5268.1
52.5°	5137.9	5204.7	5463.3	5735.6	6170.6	6389.8	6530.3	6473.8	6201.5	6884.8	6025.1
55°	5360.6	5418.8	5675.7	6144.9	6831.7	7395.2	7775.4	7727.4	7201.6	7662.3	6771.8
57.5°	5149.9	5189.3	5537.0	6151.8	7294.1	8551.2	8916.0	8856.0	8236.1	8256.6	7674.3
60°	4267.9	4329.5	4846.8	5567.8	7114.3	9441.8	10486.5	10395.7	9178.0	9008.5	8254.9
62.5°	2956.0	2997.1	3421.8	4319.3	6261.4	9751.8	11969.6	12019.3	10171.3	9594.2	8427.9
65°	1914.7	1911.3	2154.5	2762.5	4437.4	8813.2	12846.5	13154.8	11130.4	9683.2	8374.8
67°	1353.0	1347.8	1462.6	1873.6	3072.5	7261.6	12831.1	13493.9	11651.1	9708.9	7883.3
67.5°	1248.5	1243.4	1353.0	1722.9	2772.8	6752.9	12639.3	13319.2	11834.3	9673.0	7667.5
70°	969.4	955.7	996.8	1186.9	1615.0	4367.2	10817.0	12235.1	11454.1	8775.6	6122.7
72.5°	700.5	715.9	781.0	974.5	1267.4	2349.7	8244.6	9893.9	9566.8	6614.2	3891.1
75°	488.1	501.8	606.3	794.7	1162.9	1424.9	5574.6	7175.9	6663.9	3651.3	1657.8
77.5°	255.2	272.3	387.1	635.4	1056.7	1102.9	3331.1	4550.5	3531.5	1299.9	457.3
80°	118.2	126.7	193.5	450.4	883.7	969.4	1942.1	2531.3	1412.9	291.1	157.6
82.5°	51.4	56.5	89.1	258.6	626.8	847.8	1202.3	1327.3	512.1	94.2	97.6
85°	10.3	12.0	34.3	137.0	303.1	513.8	844.3	787.8	256.9	46.2	77.1
87.5°	0.0	0.0	8.6	39.4	82.2	152.4	357.9	357.9	78.8	24.0	29.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484355

CATALOG NUMBER: IFLD-S-SA2D-735-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3654.8	3654.8	3654.8	3654.8	3654.8	3654.8	3654.8	3654.8	3654.8	3654.8	3654.8
2.5°	3656.5	3594.8	3459.5	3334.5	3245.4	3144.4	3010.8	2950.9	2928.6	2897.8	2851.5
5°	3560.6	3485.2	3254.0	3021.1	2765.9	2572.4	2366.9	2247.0	2156.2	2099.7	2080.9
7.5°	3425.3	3271.1	2959.4	2586.1	2255.5	1967.8	1656.1	1445.5	1310.2	1255.4	1204.0
10°	3317.4	3117.0	2642.6	2178.5	1738.3	1317.0	965.9	781.0	640.5	587.4	580.6
12.5°	3176.9	2937.2	2346.3	1762.3	1209.1	784.4	534.3	464.1	424.7	417.9	412.7
15°	3060.5	2774.5	2065.4	1365.0	782.7	489.8	416.2	399.0	388.8	385.3	387.1
17.5°	2981.7	2599.8	1777.7	993.3	515.5	400.8	383.6	373.4	368.2	366.5	361.4
20°	2825.9	2452.5	1493.4	695.3	402.5	369.9	356.2	347.7	342.5	340.8	339.1
22.5°	2736.8	2265.8	1209.1	484.7	357.9	335.7	325.4	318.6	310.0	304.8	303.1
25°	2647.7	2128.8	955.7	376.8	325.4	310.0	294.6	286.0	272.3	265.5	263.7
27.5°	2543.3	1993.5	736.4	327.1	292.9	277.4	262.0	248.3	231.2	224.4	220.9
30°	2483.3	1861.6	554.9	292.9	268.9	248.3	229.5	212.4	193.5	181.5	178.1
32.5°	2452.5	1741.8	416.2	267.2	243.2	220.9	197.0	176.4	159.3	149.0	147.3
35°	2414.8	1625.3	327.1	243.2	219.2	195.2	171.3	150.7	133.6	125.0	121.6
37.5°	2454.2	1556.8	272.3	224.4	200.4	173.0	147.3	126.7	113.0	104.5	102.8
40°	2562.1	1500.3	236.3	207.2	181.5	152.4	128.4	107.9	95.9	89.1	85.6
42.5°	2728.2	1500.3	214.1	190.1	164.4	133.6	109.6	94.2	82.2	75.4	73.6
45°	3029.7	1546.5	195.2	173.0	143.9	114.7	94.2	78.8	66.8	59.9	58.2
47.5°	3452.7	1652.7	179.8	157.6	128.4	101.0	82.2	66.8	54.8	48.0	46.2
50°	4021.3	1894.2	164.4	138.7	114.7	87.3	68.5	53.1	42.8	36.0	34.3
52.5°	4730.3	2236.7	149.0	128.4	97.6	73.6	54.8	42.8	32.5	27.4	25.7
55°	5480.4	2656.3	130.2	114.7	83.9	61.7	44.5	32.5	24.0	20.6	18.8
57.5°	6235.7	2980.0	114.7	99.3	68.5	49.7	36.0	25.7	17.1	13.7	12.0
60°	6636.5	3010.8	99.3	82.2	54.8	39.4	27.4	18.8	12.0	8.6	6.9
62.5°	6698.1	2736.8	85.6	66.8	44.5	30.8	18.8	13.7	6.9	3.4	3.4
65°	6381.3	2281.2	73.6	53.1	34.3	22.3	13.7	8.6	3.4	1.7	0.0
67°	5867.5	1911.3	63.4	44.5	27.4	17.1	10.3	5.1	1.7	0.0	0.0
67.5°	5668.8	1808.5	59.9	41.1	25.7	15.4	8.6	5.1	1.7	0.0	0.0
70°	4399.8	1291.3	44.5	29.1	18.8	12.0	6.9	3.4	0.0	0.0	0.0
72.5°	2695.7	755.3	34.3	20.6	13.7	8.6	5.1	1.7	0.0	0.0	0.0
75°	1130.3	260.3	29.1	15.4	10.3	5.1	3.4	1.7	0.0	0.0	0.0
77.5°	294.6	97.6	20.6	10.3	6.9	5.1	3.4	1.7	0.0	0.0	0.0
80°	119.9	44.5	13.7	6.9	6.9	5.1	3.4	1.7	0.0	0.0	0.0
82.5°	78.8	20.6	8.6	6.9	5.1	3.4	1.7	0.0	0.0	0.0	0.0
85°	59.9	12.0	5.1	5.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	25.7	6.9	5.1	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)