

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: P484417

Luminaire Tested: **IFLD-M-SA4B-740-U-SL3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484417
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-740-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

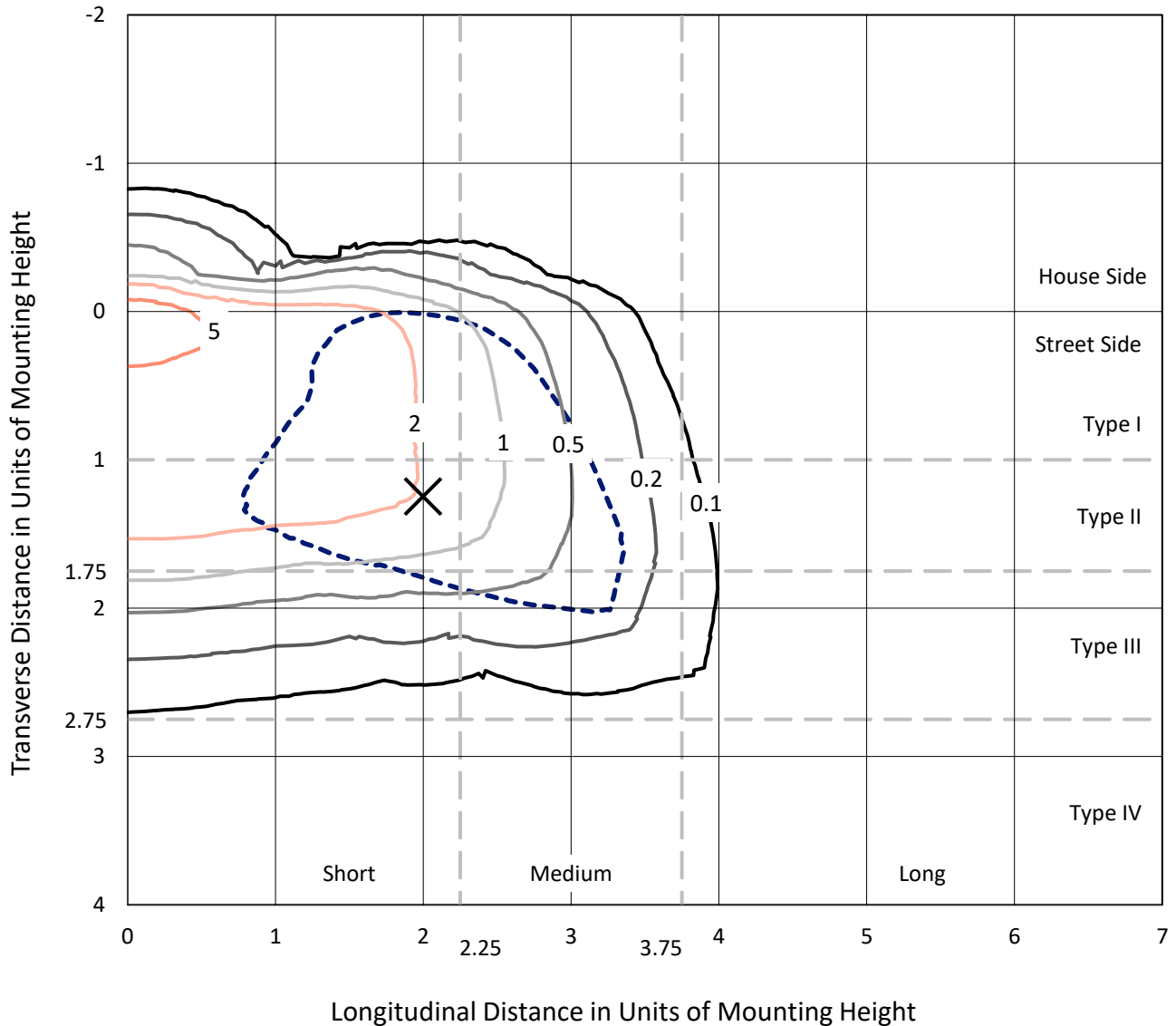
Lumens per Lamp: N/A
Luminaire Lumens: 19100.5 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 166.1
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

REPORT NUMBER: P484417
 CATALOG NUMBER: IFLD-M-SA4B-740-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

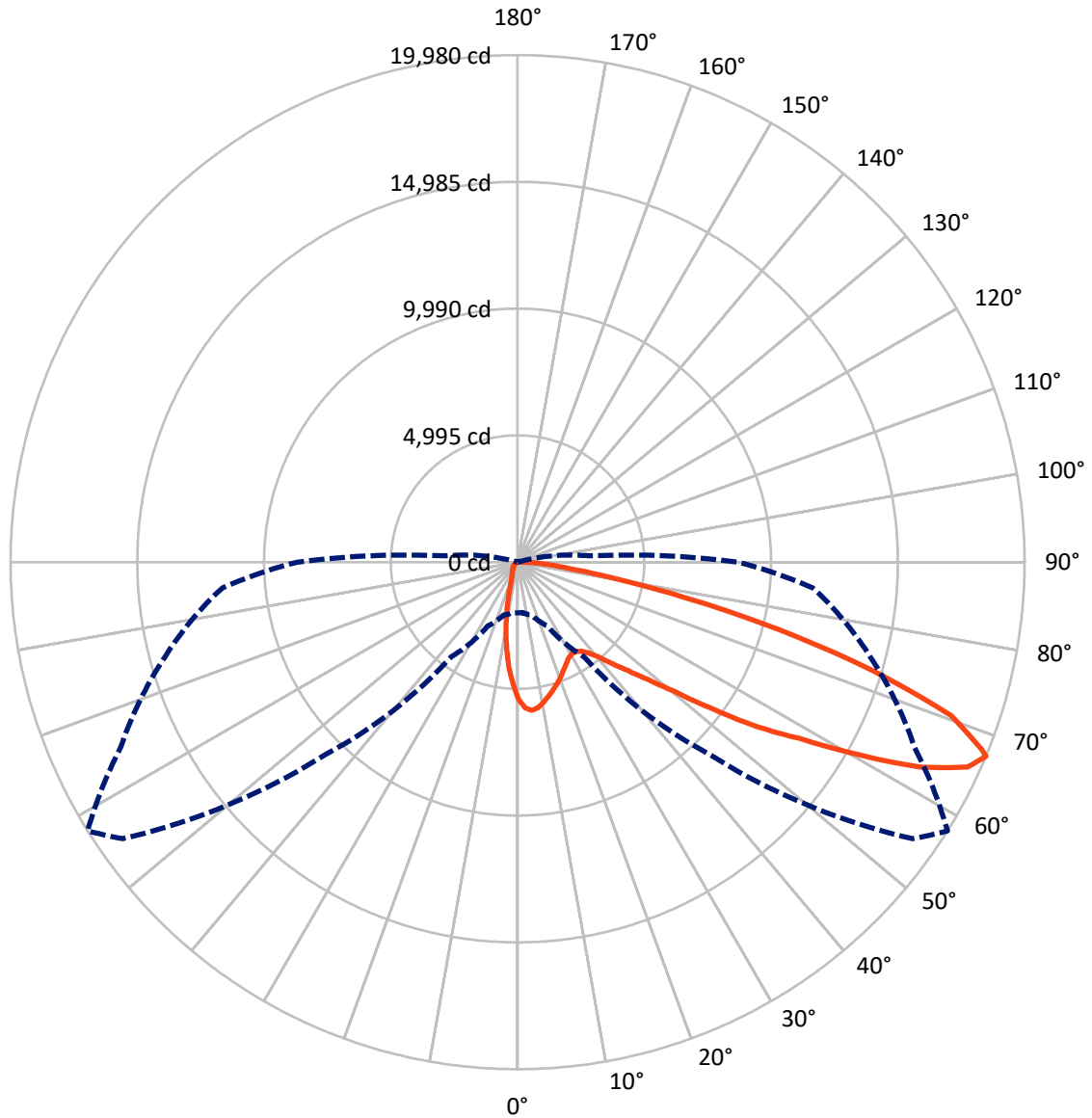
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Short - N/A

REPORT NUMBER: P484417
CATALOG NUMBER: IFLD-M-SA4B-740-U-SL3-HSS

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	1578.8	0.0	1578.8
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	17521.7	0.0	17521.7
	% Fixture	91.7	0.0	91.7
Total	Lumens	19100.5	0.0	19100.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.4	2.2
10°-20°	890.6	4.7
20°-30°	1181.6	6.2
30°-40°	1637.4	8.6
40°-50°	2671.7	14.0
50°-60°	4696.0	24.6
60°-70°	5201.2	27.2
70°-80°	2155.4	11.3
80°-90°	237.3	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°	19100.5	100.0
0°-180°	19100.5	100.0

Coefficient of Utilization



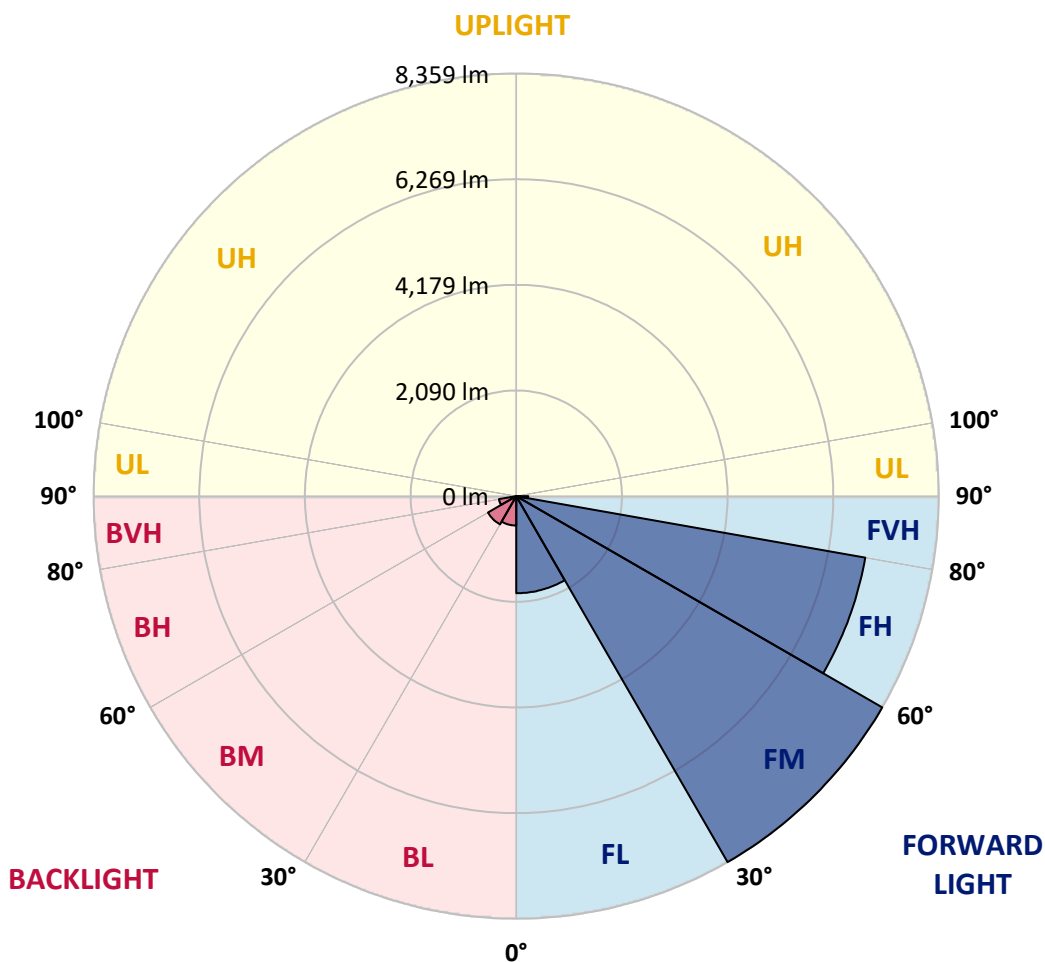
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1920.1	10.1			
FM (30°-60°)	8358.8	43.8			
FH (60°-80°)	7009.5	36.7			G3/7500
FVH (80°-90°)	233.4	1.2			G3/500
BL (0°-30°)	581.5	3.0	B2/1000		
BM (30°-60°)	646.3	3.4	B1/1000		
BH (60°-80°)	347.1	1.8	B1/500		G1/500
BVH (80°-90°)	3.9	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-G3

Type III Short





REPORT NUMBER: P484417

CATALOG NUMBER: IFLD-M-SA4B-740-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5411.4	5411.4	5411.4	5411.4	5411.4	5411.4	5411.4	5411.4	5411.4	5411.4	5411.4
2.5°	5888.2	5908.5	5926.2	5893.2	5921.1	5880.6	5776.6	5753.8	5736.0	5581.3	5492.6
5°	5885.6	5862.8	5880.6	5895.8	5857.7	5888.2	5862.8	5865.3	5796.9	5657.4	5408.9
7.5°	5492.6	5482.4	5492.6	5566.1	5649.8	5715.7	5753.8	5791.8	5746.2	5538.2	5297.3
10°	4962.6	5013.3	5041.2	5173.1	5302.4	5424.1	5543.3	5614.3	5601.6	5517.9	5175.6
12.5°	4592.4	4577.2	4678.6	4764.8	4894.1	5140.1	5348.0	5414.0	5490.0	5373.4	5015.8
15°	4250.0	4209.5	4270.3	4419.9	4640.5	4835.8	5127.4	5226.3	5322.7	5353.1	4929.6
17.5°	3922.9	3943.2	4006.6	4141.0	4348.9	4622.8	4896.7	5038.7	5269.4	5228.9	4800.3
20°	3765.7	3808.8	3831.6	3900.1	4044.6	4318.5	4726.8	4840.9	5086.9	5226.3	4673.5
22.5°	3773.3	3773.3	3720.0	3760.6	3892.5	4105.5	4496.0	4622.8	5013.3	5094.5	4559.4
25°	3854.4	3803.7	3806.3	3758.1	3813.9	3930.5	4288.1	4442.8	4863.7	5107.1	4498.5
27.5°	3915.3	3905.2	3889.9	3877.3	3806.3	3824.0	4151.1	4277.9	4805.4	5091.9	4404.7
30°	4135.9	4090.3	4075.1	4047.2	3953.3	3867.1	4042.1	4201.9	4759.7	5127.4	4351.5
32.5°	4321.0	4328.6	4341.3	4260.2	4179.0	3966.0	4072.5	4199.3	4726.8	5208.6	4404.7
35°	4554.3	4587.3	4592.4	4567.0	4480.8	4270.3	4199.3	4308.4	4782.6	5353.1	4409.8
37.5°	4909.3	4873.8	4970.2	4980.3	4919.5	4640.5	4493.5	4536.6	4947.4	5583.9	4602.5
40°	5140.1	5183.2	5363.3	5474.8	5370.9	5117.3	4919.5	4911.9	5185.7	5946.5	4840.9
42.5°	5396.2	5492.6	5690.4	5931.3	5918.6	5682.8	5482.4	5449.5	5609.2	6471.4	5218.7
45°	5746.2	5832.4	6108.8	6471.4	6669.2	6468.9	6167.1	6101.2	6124.0	7186.5	5862.8
47.5°	6326.9	6304.0	6702.2	7059.7	7384.3	7229.6	7100.3	6907.6	6889.8	8028.4	6752.9
50°	6983.6	6978.6	7333.6	7739.3	8114.6	8416.4	8200.8	7990.4	7995.4	9172.1	7800.2
52.5°	7607.5	7706.4	8089.3	8492.5	9136.6	9461.1	9669.1	9585.4	9182.2	10194.0	8921.0
55°	7937.1	8023.3	8403.7	9098.5	10115.4	10949.7	11512.6	11441.6	10663.1	11345.3	10026.6
57.5°	7625.2	7683.5	8198.3	9108.7	10800.1	12661.3	13201.5	13112.7	12194.8	12225.2	11363.0
60°	6319.3	6410.5	7176.4	8243.9	10533.8	13980.0	15526.8	15392.4	13589.5	13338.4	12222.6
62.5°	4376.8	4437.7	5066.6	6395.3	9271.0	14439.0	17722.8	17796.4	15060.2	14205.7	12478.8
65°	2835.0	2830.0	3190.1	4090.3	6570.3	13049.3	19021.2	19477.6	16480.3	14337.5	12400.2
67°	2003.3	1995.7	2165.6	2774.2	4549.3	10751.9	18998.4	19979.7	17251.2	14375.6	11672.4
67.5°	1848.6	1841.0	2003.3	2551.0	4105.5	9998.7	18714.3	19721.1	17522.5	14322.3	11352.9
70°	1435.3	1415.0	1475.8	1757.3	2391.3	6466.3	16016.2	18115.9	16959.6	12993.5	9065.6
72.5°	1037.1	1060.0	1156.3	1442.9	1876.5	3479.1	12207.4	14649.4	14165.1	9793.3	5761.4
75°	722.7	743.0	897.7	1176.6	1721.8	2109.8	8254.1	10625.1	9866.9	5406.4	2454.7
77.5°	377.8	403.2	573.1	940.8	1564.6	1633.1	4932.2	6737.7	5228.9	1924.7	677.1
80°	175.0	187.7	286.5	666.9	1308.5	1435.3	2875.6	3747.9	2092.1	431.1	233.3
82.5°	76.1	83.7	131.9	382.9	928.1	1255.2	1780.1	1965.3	758.2	139.5	144.5
85°	15.2	17.8	50.7	202.9	448.8	760.7	1250.2	1166.5	380.4	68.5	114.1
87.5°	0.0	0.0	12.7	58.3	121.7	225.7	530.0	530.0	116.6	35.5	43.1
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: P484417

CATALOG NUMBER: IFLD-M-SA4B-740-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5411.4	5411.4	5411.4	5411.4	5411.4	5411.4	5411.4	5411.4	5411.4	5411.4	5411.4
2.5°	5414.0	5322.7	5122.4	4937.2	4805.4	4655.8	4458.0	4369.2	4336.3	4290.6	4222.1
5°	5272.0	5160.4	4818.1	4473.2	4095.3	3808.8	3504.5	3327.0	3192.6	3108.9	3081.0
7.5°	5071.6	4843.4	4381.9	3829.1	3339.7	2913.7	2452.1	2140.2	1939.9	1858.8	1782.7
10°	4911.9	4615.2	3912.8	3225.6	2573.9	1950.0	1430.2	1156.3	948.4	869.8	859.6
12.5°	4703.9	4348.9	3474.1	2609.4	1790.3	1161.4	791.2	687.2	628.9	618.7	611.1
15°	4531.5	4108.0	3058.2	2021.0	1158.9	725.2	616.2	590.8	575.6	570.6	573.1
17.5°	4414.9	3849.4	2632.2	1470.8	763.3	593.4	568.0	552.8	545.2	542.7	535.1
20°	4184.1	3631.3	2211.2	1029.5	595.9	547.7	527.5	514.8	507.2	504.6	502.1
22.5°	4052.2	3354.9	1790.3	717.6	530.0	497.0	481.8	471.7	459.0	451.4	448.8
25°	3920.4	3152.0	1415.0	557.9	481.8	459.0	436.2	423.5	403.2	393.1	390.5
27.5°	3765.7	2951.7	1090.4	484.3	433.6	410.8	388.0	367.7	342.3	332.2	327.1
30°	3676.9	2756.4	821.6	433.6	398.1	367.7	339.8	314.4	286.5	268.8	263.7
32.5°	3631.3	2578.9	616.2	395.6	360.1	327.1	291.6	261.2	235.8	220.6	218.1
35°	3575.5	2406.5	484.3	360.1	324.6	289.1	253.6	223.2	197.8	185.1	180.0
37.5°	3633.8	2305.1	403.2	332.2	296.7	256.1	218.1	187.7	167.4	154.7	152.1
40°	3793.6	2221.4	349.9	306.8	268.8	225.7	190.2	159.8	142.0	131.9	126.8
42.5°	4039.6	2221.4	317.0	281.5	243.4	197.8	162.3	139.5	121.7	111.6	109.0
45°	4485.9	2289.8	289.1	256.1	213.0	169.9	139.5	116.6	98.9	88.8	86.2
47.5°	5112.2	2447.1	266.3	233.3	190.2	149.6	121.7	98.9	81.1	71.0	68.5
50°	5954.1	2804.6	243.4	205.4	169.9	129.3	101.4	78.6	63.4	53.3	50.7
52.5°	7003.9	3311.8	220.6	190.2	144.5	109.0	81.1	63.4	48.2	40.6	38.0
55°	8114.6	3933.1	192.7	169.9	124.3	91.3	65.9	48.2	35.5	30.4	27.9
57.5°	9232.9	4412.3	169.9	147.1	101.4	73.5	53.3	38.0	25.4	20.3	17.8
60°	9826.3	4458.0	147.1	121.7	81.1	58.3	40.6	27.9	17.8	12.7	10.1
62.5°	9917.6	4052.2	126.8	98.9	65.9	45.6	27.9	20.3	10.1	5.1	5.1
65°	9448.5	3377.7	109.0	78.6	50.7	33.0	20.3	12.7	5.1	2.5	0.0
67°	8687.7	2830.0	93.8	65.9	40.6	25.4	15.2	7.6	2.5	0.0	0.0
67.5°	8393.6	2677.8	88.8	60.9	38.0	22.8	12.7	7.6	2.5	0.0	0.0
70°	6514.5	1912.0	65.9	43.1	27.9	17.8	10.1	5.1	0.0	0.0	0.0
72.5°	3991.4	1118.3	50.7	30.4	20.3	12.7	7.6	2.5	0.0	0.0	0.0
75°	1673.6	385.4	43.1	22.8	15.2	7.6	5.1	2.5	0.0	0.0	0.0
77.5°	436.2	144.5	30.4	15.2	10.1	7.6	5.1	2.5	0.0	0.0	0.0
80°	177.5	65.9	20.3	10.1	10.1	7.6	5.1	2.5	0.0	0.0	0.0
82.5°	116.6	30.4	12.7	10.1	7.6	5.1	2.5	0.0	0.0	0.0	0.0
85°	88.8	17.8	7.6	7.6	5.1	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	38.0	10.1	7.6	5.1	5.1	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)