

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: P480128

Luminaire Tested: **IFLD-M-SA4C-740-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480128
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-740-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

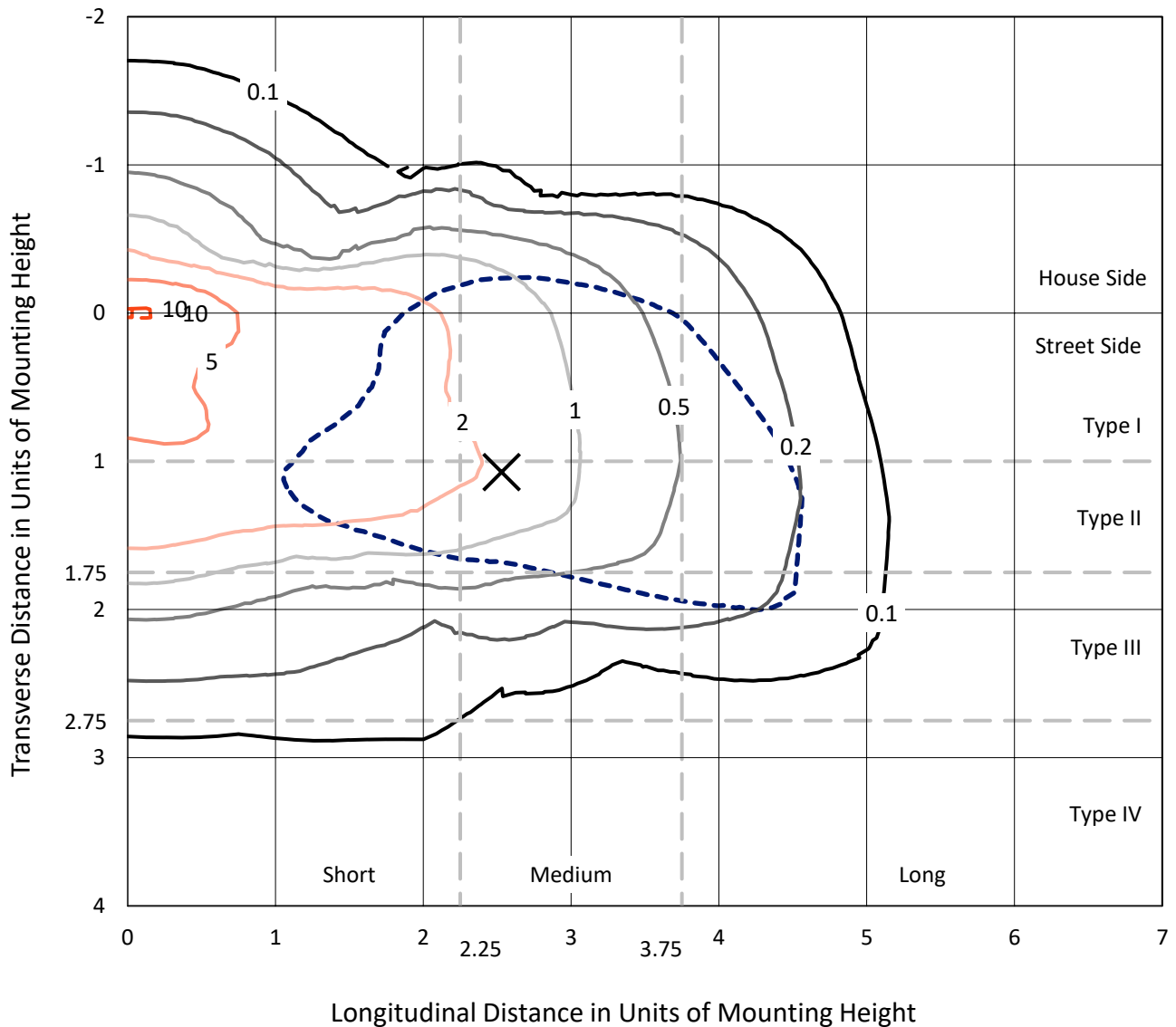
Lumens per Lamp: N/A
Luminaire Lumens: 28348 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

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Iso-Footcandle Lines of Horizontal Illumination

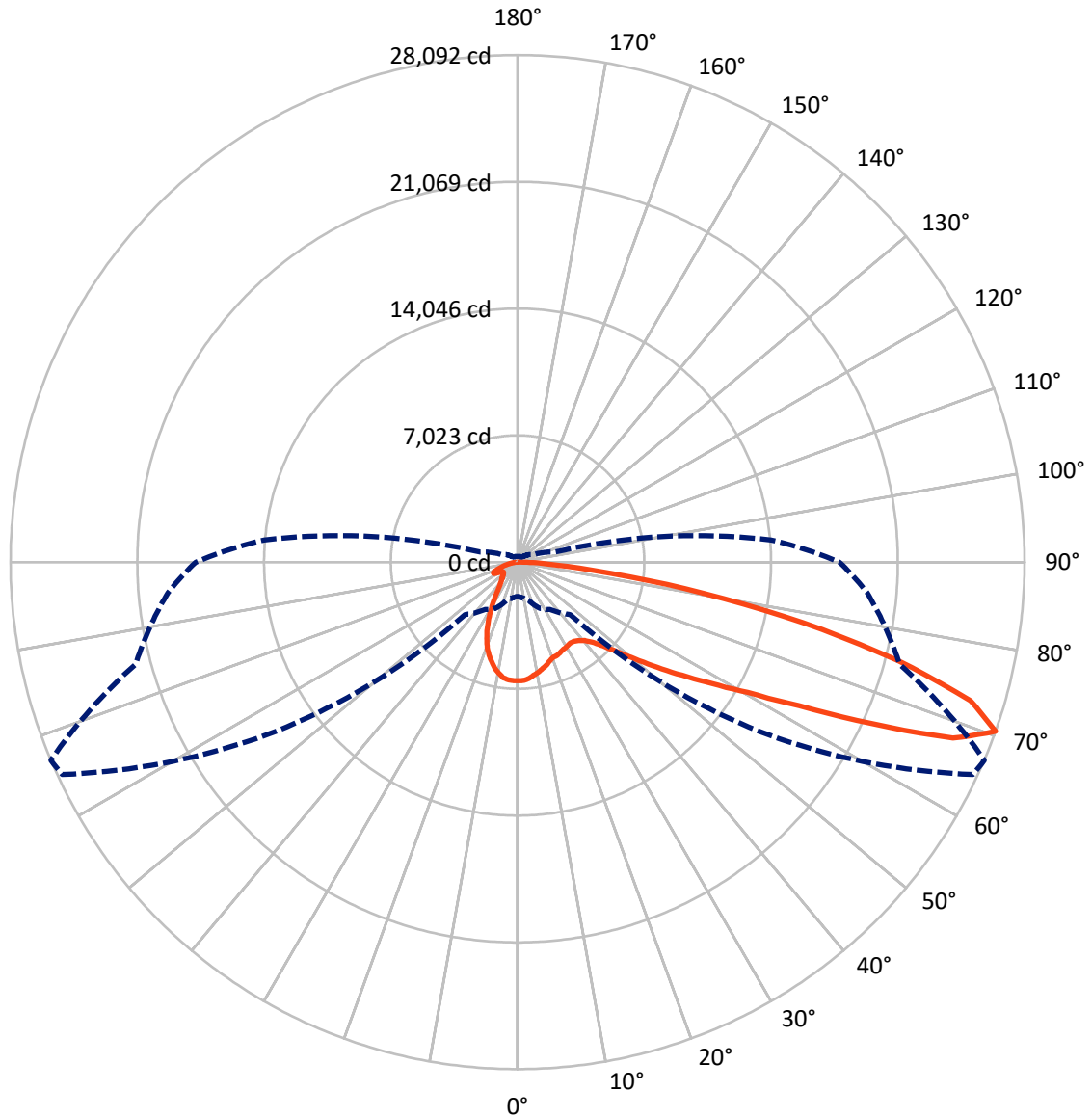
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5521.0	0.0	5521.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	22827.0	0.0	22827.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	28348.0	0.0	28348.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.6	2.0
10°-20°	1371.3	4.8
20°-30°	1851.9	6.5
30°-40°	2478.0	8.7
40°-50°	3643.8	12.9
50°-60°	5679.8	20.0
60°-70°	6996.6	24.7
70°-80°	4943.7	17.4
80°-90°	810.3	2.9
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°	28348.0	100.0
0°-180°	28348.0	100.0

Coefficient of Utilization

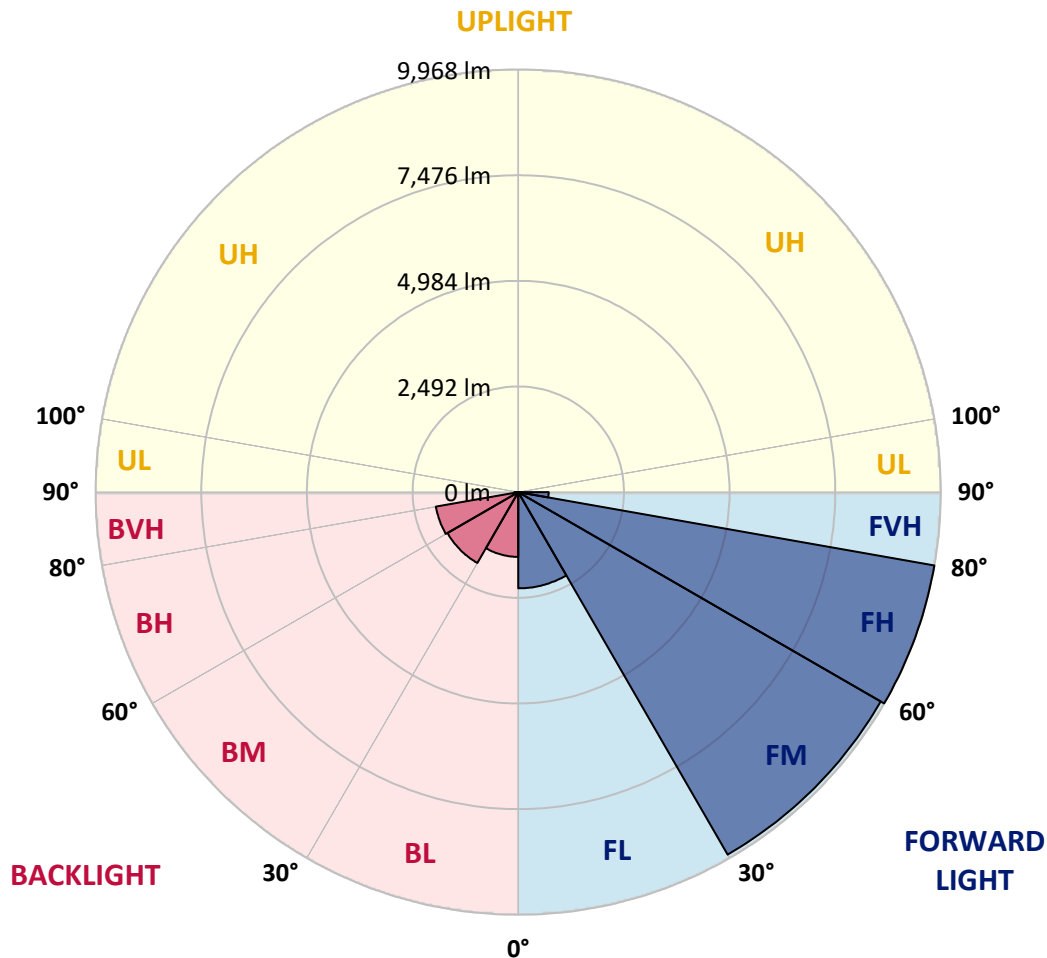


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2269.0	8.0			
FM (30°-60°)	9873.0	34.8			
FH (60°-80°)	9968.1	35.2			G4/12000
FVH (80°-90°)	716.8	2.5			G4/750
BL (0°-30°)	1526.8	5.4	B3/2500		
BM (30°-60°)	1928.6	6.8	B2/2500		
BH (60°-80°)	1972.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	93.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6562.5	6562.5	6562.5	6562.5	6562.5	6562.5	6562.5	6562.5	6562.5	6562.5	6562.5
2.5°	6110.5	6179.6	6204.7	6242.4	6339.7	6411.8	6455.8	6506.0	6565.6	6615.8	6647.2
5°	5683.7	5721.4	5781.0	5821.8	5944.2	6138.8	6270.6	6484.0	6477.7	6556.2	6675.5
7.5°	5269.4	5307.1	5335.3	5416.9	5592.7	5768.5	6010.1	6355.3	6330.2	6512.3	6697.4
10°	5012.1	4983.8	4993.3	5131.4	5269.4	5467.2	5771.6	6123.1	6214.1	6496.6	6760.2
12.5°	4770.4	4739.0	4814.4	4902.2	5071.7	5250.6	5614.7	5931.7	6069.7	6440.1	6788.4
15°	4619.8	4597.8	4692.0	4729.6	4930.5	5143.9	5401.3	5787.3	5937.9	6371.0	6744.5
17.5°	4535.0	4553.9	4588.4	4670.0	4798.7	4980.7	5263.2	5690.0	5755.9	6286.3	6735.1
20°	4550.7	4572.7	4575.8	4610.4	4698.2	4839.5	5128.2	5586.4	5630.4	6270.6	6760.2
22.5°	4676.3	4644.9	4657.4	4635.5	4660.6	4770.4	5024.6	5448.3	5617.8	6138.8	6706.8
25°	4864.6	4820.6	4814.4	4739.0	4692.0	4723.4	5005.8	5413.8	5523.7	6098.0	6703.7
27.5°	5197.3	5131.4	5131.4	5018.4	4826.9	4776.7	4952.5	5357.3	5454.6	6060.3	6631.5
30°	5517.4	5517.4	5520.5	5360.5	5147.0	4899.1	4974.4	5335.3	5398.1	5947.3	6534.2
32.5°	5906.5	5897.1	5881.4	5803.0	5473.4	5103.1	5081.1	5307.1	5338.5	5909.7	6506.0
35°	6286.3	6261.2	6383.6	6314.5	5978.7	5501.7	5191.0	5319.7	5388.7	5853.2	6418.1
37.5°	6571.9	6587.6	6841.8	6885.7	6597.0	5953.6	5501.7	5445.2	5511.1	5934.8	6418.1
40°	6942.2	7005.0	7243.5	7391.0	7215.3	6549.9	5994.4	5655.5	5702.5	6116.8	6556.2
42.5°	7428.7	7482.0	7786.5	7977.9	7927.7	7309.4	6480.9	6094.9	6057.2	6421.2	6763.3
45°	8072.1	8081.5	8389.1	8652.7	8756.2	8103.5	7252.9	6650.4	6619.0	6945.4	7143.1
47.5°	8837.8	8828.4	9019.9	9302.3	9581.7	9051.3	8141.1	7494.6	7381.6	7695.5	7773.9
50°	9578.5	9537.7	9581.7	9942.6	10479.3	10237.6	9220.7	8527.1	8414.2	8586.8	8721.7
52.5°	9986.5	10036.7	9917.5	10394.5	11433.3	11640.5	10651.9	9760.6	9663.3	9748.0	9983.4
55°	9700.9	9804.5	9726.0	10178.0	11850.8	13350.9	12503.5	11188.5	11063.0	11031.6	11417.6
57.5°	8486.3	8674.7	8690.3	9405.9	11706.4	14675.3	15108.5	12873.9	12685.6	12365.5	12764.0
60°	6515.4	6703.7	6848.1	7695.5	10469.8	15466.2	18127.6	15271.7	14650.2	13821.7	14060.2
62.5°	4566.4	4695.1	4839.5	5360.5	8072.1	15001.7	20738.8	18648.6	17503.1	15356.4	15654.5
65°	3326.7	3427.2	3574.7	3882.3	4958.7	12412.5	21950.3	22659.5	21573.6	17308.5	17270.8
67.5°	2504.5	2567.2	2761.8	3254.6	3436.6	7667.2	20694.9	26896.4	26017.7	19477.2	18570.2
70°	1895.6	1949.0	2131.0	2805.8	3210.6	4111.4	16326.2	27841.1	28092.2	21909.5	19442.6
72.5°	1305.6	1365.2	1569.2	2338.1	3056.8	3260.8	10247.0	25292.7	26243.6	22910.6	18507.4
75°	800.3	841.1	960.4	1773.2	3034.9	3188.7	5639.8	20726.3	21733.7	21168.8	16191.2
77.5°	564.9	561.8	583.7	1038.8	2630.0	3207.5	3477.4	15186.9	16166.1	15601.2	10987.7
80°	411.1	414.3	436.2	621.4	1785.8	3260.8	2739.9	10171.7	10463.6	8134.8	4334.2
82.5°	247.9	260.5	313.8	420.6	1073.3	2943.9	2532.7	5652.3	5288.3	2611.2	1192.6
85°	131.8	131.8	185.2	266.8	571.2	2196.9	2438.6	2689.6	2253.4	809.7	442.5
87.5°	31.4	31.4	53.4	106.7	229.1	1051.4	1663.4	1070.2	856.8	273.0	182.0
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°	6562.5	6562.5	6562.5	6562.5	6562.5	6562.5	6562.5	6562.5	6562.5	6562.5	6562.5
2.5°	6634.7	6597.0	6644.1	6549.9	6474.6	6477.7	6361.6	6355.3	6339.7	6258.1	6286.3
5°	6710.0	6678.6	6625.2	6521.7	6355.3	6189.0	6088.6	5959.9	5906.5	5878.3	5890.9
7.5°	6782.2	6725.7	6571.9	6427.5	6170.2	5856.3	5674.3	5501.7	5282.0	5256.9	5213.0
10°	6801.0	6681.7	6484.0	6176.5	5834.4	5486.0	5071.7	4751.6	4582.1	4450.3	4400.1
12.5°	6772.8	6722.5	6342.8	5947.3	5429.5	4883.4	4400.1	3948.2	3634.3	3471.1	3427.2
15°	6769.6	6681.7	6185.9	5599.0	4936.8	4224.3	3537.0	2994.1	2664.5	2529.6	2529.6
17.5°	6772.8	6562.5	6000.7	5247.5	4356.2	3392.7	2636.3	2190.6	2008.6	1989.8	2005.5
20°	6710.0	6474.6	5806.1	4833.2	3628.0	2548.4	1914.4	1732.4	1732.4	1757.5	1766.9
22.5°	6653.5	6342.8	5498.5	4321.6	2887.4	1845.4	1556.7	1503.3	1562.9	1606.9	1625.7
25°	6575.0	6232.9	5184.7	3791.2	2196.9	1487.6	1352.7	1365.2	1421.7	1500.2	1493.9
27.5°	6462.0	6041.5	4811.2	3176.1	1635.1	1283.6	1249.1	1255.4	1315.0	1349.5	1343.3
30°	6333.4	5846.9	4466.0	2564.1	1296.2	1176.9	1173.8	1189.5	1198.9	1217.7	1214.6
32.5°	6170.2	5589.6	4098.8	1992.9	1167.5	1117.3	1104.7	1095.3	1104.7	1101.6	1092.2
35°	6054.1	5451.5	3725.3	1519.0	1095.3	1063.9	1054.5	1038.8	1026.3	1007.4	1004.3
37.5°	6022.7	5313.4	3333.0	1239.7	1038.8	1023.1	991.7	963.5	947.8	938.4	932.1
40°	6003.8	5222.4	2950.1	1089.0	991.7	976.1	938.4	900.7	885.0	875.6	878.8
42.5°	6069.7	5172.2	2561.0	1013.7	950.9	922.7	881.9	838.0	834.8	828.5	838.0
45°	6302.0	5234.9	2200.0	960.4	910.1	863.1	809.7	787.7	784.6	778.3	784.6
47.5°	6829.2	5391.8	1892.5	925.8	866.2	825.4	768.9	737.5	734.4	731.3	731.3
50°	7557.4	5875.2	1635.1	885.0	838.0	781.5	728.1	693.6	687.3	674.8	674.8
52.5°	8699.8	6688.0	1481.3	863.1	787.7	740.7	684.2	646.5	630.8	618.3	618.3
55°	9986.5	7695.5	1453.1	825.4	734.4	690.5	640.2	602.6	586.9	571.2	564.9
57.5°	11452.2	9029.3	1654.0	800.3	696.7	640.2	583.7	549.2	536.7	521.0	514.7
60°	12817.4	10360.0	2278.5	762.6	662.2	593.2	536.7	502.2	486.5	470.8	470.8
62.5°	14396.0	12007.7	3336.2	762.6	630.8	543.0	486.5	461.4	451.9	436.2	433.1
65°	16263.4	13711.8	4108.2	809.7	621.4	499.0	439.4	414.3	404.9	395.4	392.3
67.5°	17685.1	14691.0	3533.9	935.3	662.2	461.4	392.3	376.6	370.3	360.9	354.6
70°	17835.8	14094.7	2131.0	1010.6	703.0	423.7	351.5	335.8	335.8	326.4	320.1
72.5°	16483.1	12506.7	1434.3	900.7	637.1	379.8	310.7	298.2	291.9	285.6	282.5
75°	13793.4	10607.9	1133.0	718.7	489.6	313.8	269.9	257.4	247.9	244.8	238.5
77.5°	9264.7	6895.2	838.0	561.8	360.9	254.2	226.0	213.4	204.0	200.9	191.4
80°	3559.0	2626.9	539.8	408.0	254.2	200.9	178.9	166.3	160.1	150.6	144.4
82.5°	1048.2	850.5	301.3	251.1	163.2	138.1	128.7	119.3	109.8	100.4	97.3
85°	433.1	389.2	185.2	131.8	100.4	81.6	75.3	65.9	56.5	50.2	43.9
87.5°	200.9	166.3	84.7	50.2	34.5	18.8	9.4	3.1	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)