

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: P484192

Luminaire Tested: **IFLD-L-SA8A-830-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484192  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-830-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22403.5 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

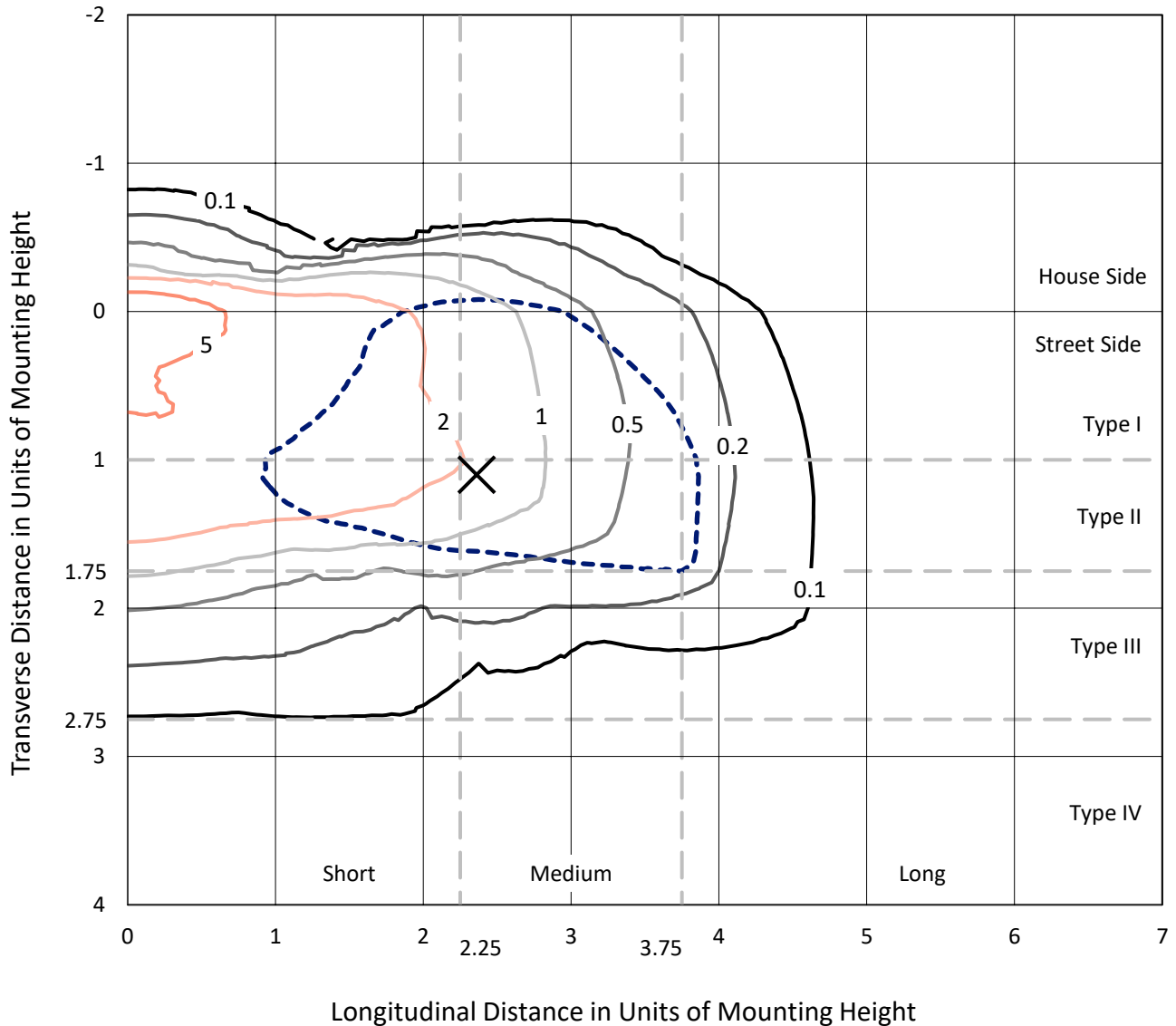
Input Watts (W): 247.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

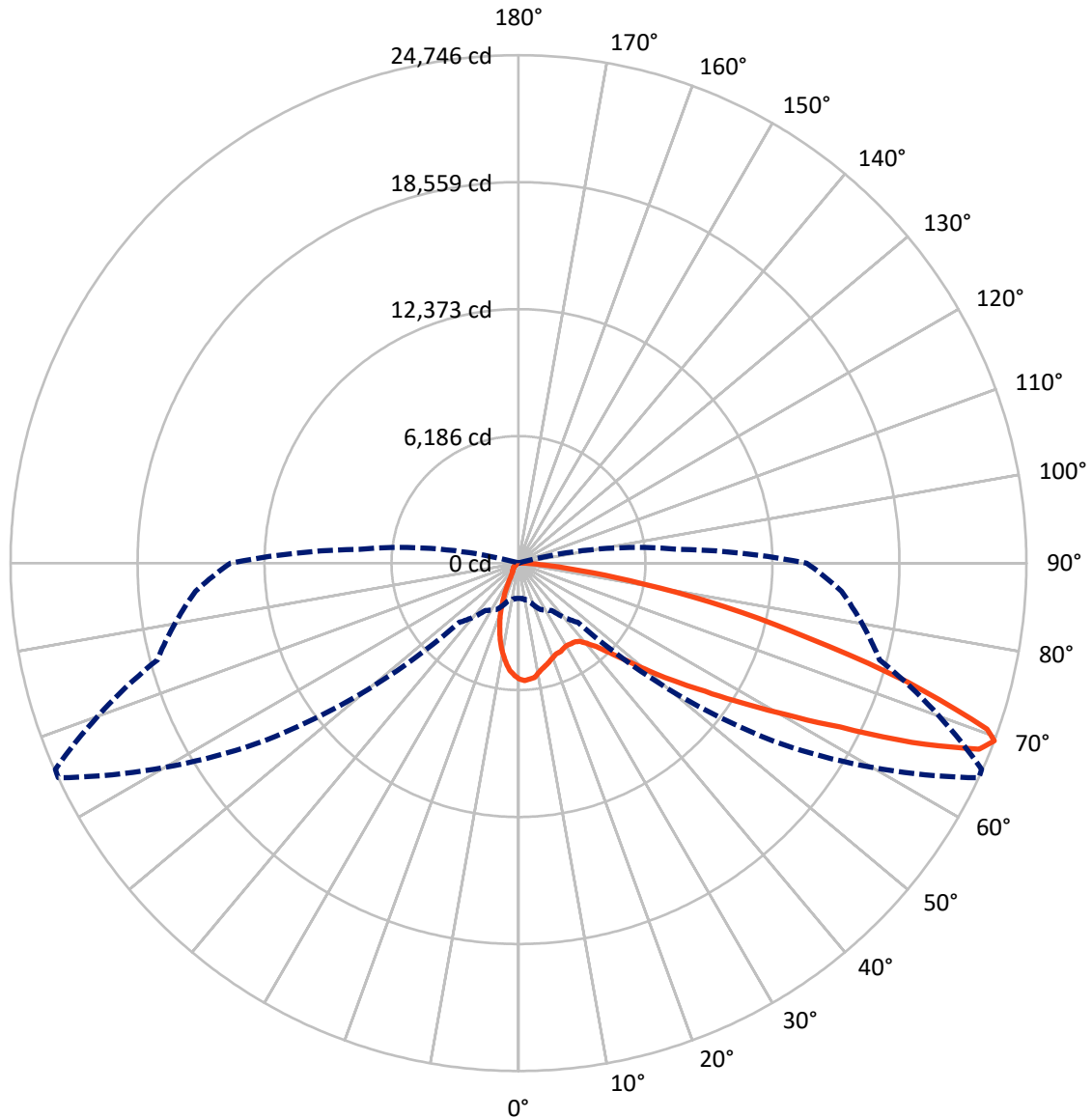
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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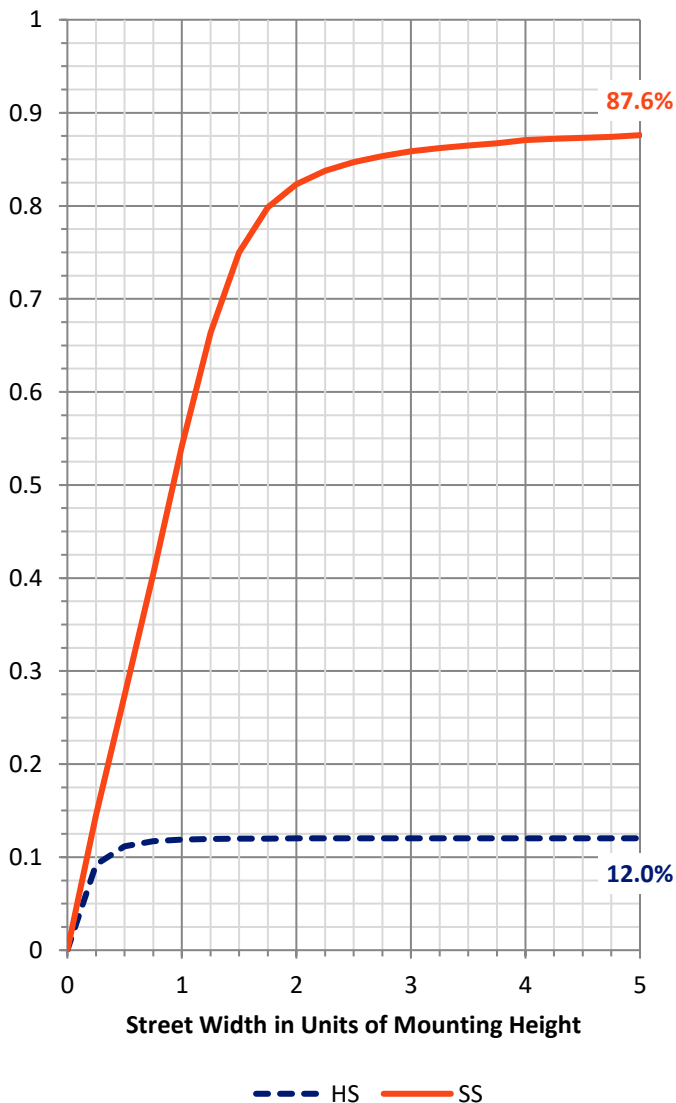
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2717.7	0.0	2717.7
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	19685.8	0.0	19685.8
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	22403.5	0.0	22403.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	462.2	2.1
10°-20°	1011.3	4.5
20°-30°	1408.0	6.3
30°-40°	1995.3	8.9
40°-50°	3144.5	14.0
50°-60°	5102.5	22.8
60°-70°	5698.4	25.4
70°-80°	3208.9	14.3
80°-90°	372.3	1.7
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°	22403.5	100.0
0°-180°	22403.5	100.0



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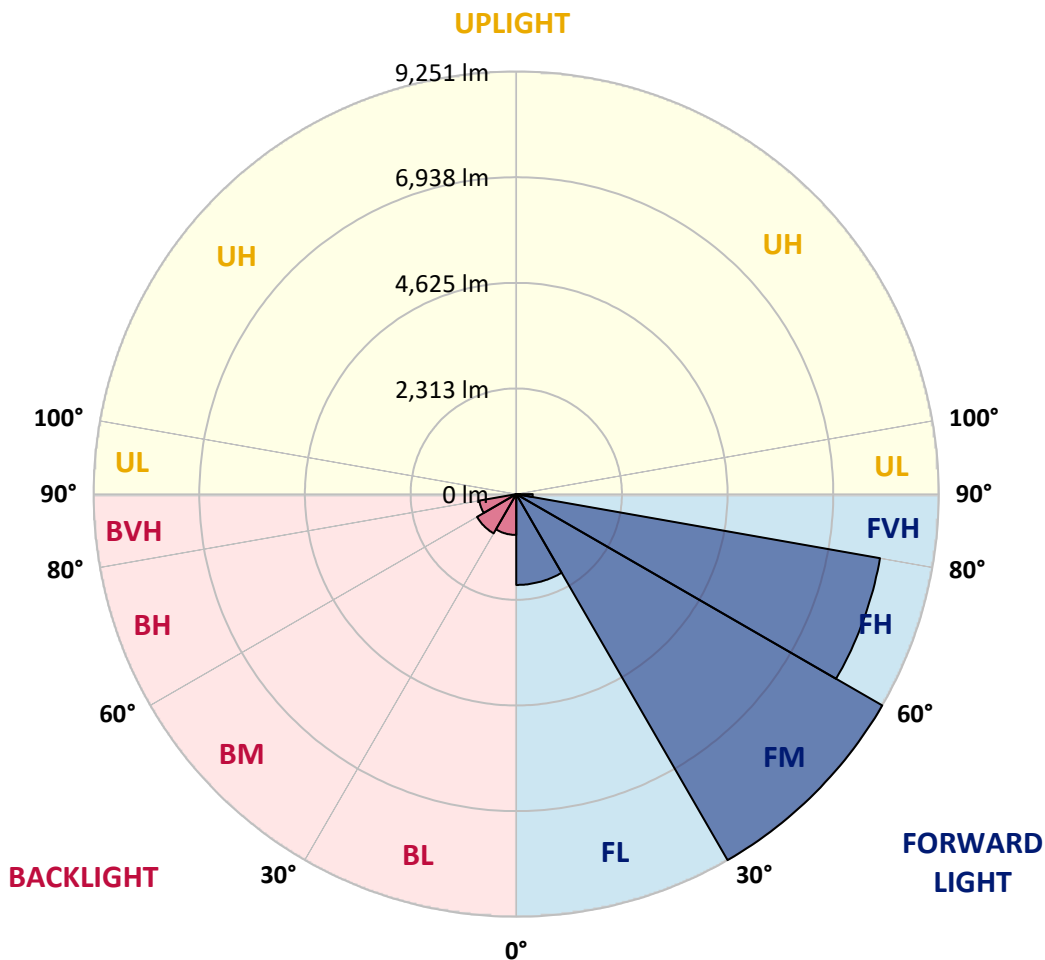
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1988.1	8.9			
FM (30°-60°)	9250.6	41.3			
FH (60°-80°)	8085.0	36.1			G4/12000
FVH (80°-90°)	362.1	1.6			G3/500
BL (0°-30°)	893.5	4.0	B2/1000		
BM (30°-60°)	991.7	4.4	B1/1000		
BH (60°-80°)	822.3	3.7	B2/1000		G2/1000
BVH (80°-90°)	10.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5648.4	5648.4	5648.4	5648.4	5648.4	5648.4	5648.4	5648.4	5648.4	5648.4	5648.4
2.5°	5439.9	5482.2	5494.3	5536.6	5557.8	5648.4	5699.8	5730.0	5714.9	5748.2	5751.2
5°	5053.1	5028.9	5092.4	5137.7	5234.4	5391.6	5551.7	5675.6	5733.1	5787.5	5778.4
7.5°	4639.0	4626.9	4690.4	4793.2	4880.8	5071.2	5328.1	5633.3	5621.2	5754.2	5793.5
10°	4355.0	4367.0	4388.2	4490.9	4620.9	4814.3	5134.7	5418.8	5482.2	5763.3	5841.9
12.5°	4095.0	4116.2	4155.5	4261.3	4412.4	4611.8	4923.1	5255.6	5352.3	5711.9	5869.1
15°	4010.4	3962.1	4040.6	4119.2	4276.4	4454.7	4717.6	5131.6	5174.0	5651.5	5914.4
17.5°	3940.9	3910.7	3947.0	4010.4	4176.6	4321.7	4569.5	4998.7	5077.2	5627.3	5908.3
20°	3962.1	3934.9	3950.0	3998.3	4073.9	4209.9	4439.6	4871.7	4956.4	5515.5	5899.3
22.5°	4022.5	4043.7	4016.5	4028.6	4052.7	4122.2	4370.1	4781.1	4853.6	5494.3	5950.7
25°	4294.5	4258.2	4222.0	4206.9	4064.8	4095.0	4348.9	4775.0	4826.4	5418.8	5908.3
27.5°	4578.6	4548.4	4533.3	4445.6	4252.2	4161.5	4351.9	4690.4	4759.9	5388.5	5857.0
30°	4923.1	4962.4	4902.0	4796.2	4527.2	4303.6	4385.2	4648.1	4744.8	5273.7	5823.7
32.5°	5285.8	5306.9	5337.2	5258.6	4911.0	4518.1	4484.9	4687.4	4693.4	5273.7	5748.2
35°	5696.8	5666.6	5745.2	5751.2	5446.0	4898.9	4675.3	4714.6	4778.1	5249.5	5721.0
37.5°	6050.4	6101.8	6192.4	6337.5	6023.2	5436.9	4971.5	4841.5	4868.7	5361.3	5742.1
40°	6437.2	6488.6	6694.1	6839.2	6660.9	6041.3	5421.8	5137.7	5158.8	5527.6	5850.9
42.5°	6863.4	6963.1	7207.9	7461.7	7413.4	6809.0	6002.0	5572.9	5563.8	5941.6	6074.6
45°	7440.6	7573.6	7839.5	8132.7	8175.0	7688.4	6775.7	6222.7	6252.9	6482.6	6537.0
47.5°	8244.5	8238.4	8498.3	8824.7	9069.5	8601.1	7700.5	7096.1	7093.0	7337.8	7223.0
50°	9021.2	9024.2	9093.7	9471.5	10106.1	9867.4	8845.9	8256.6	8223.3	8344.2	8159.9
52.5°	9380.8	9338.5	9287.1	9743.5	10904.0	11463.1	10296.5	9571.2	9544.0	9471.5	9423.1
55°	9003.1	9018.2	9015.1	9489.6	11324.1	13146.5	12158.2	11018.8	10973.5	10746.8	10813.3
57.5°	7791.2	7742.8	7848.6	8589.0	10843.6	14294.9	14820.7	12844.2	12726.4	11973.8	11822.7
60°	5799.5	5814.7	5902.3	6775.7	9649.8	14536.7	17368.4	14987.0	14479.2	12838.2	12629.7
62.5°	4049.7	4019.5	4052.7	4542.3	6899.6	13569.6	19091.1	17592.1	17102.5	13820.4	13699.5
65°	2898.3	2859.0	2992.0	3291.1	4143.4	10375.1	19335.9	21061.5	20623.3	15388.9	15098.8
67.5°	2085.3	2079.3	2233.4	2777.4	2943.6	5974.8	17522.6	24204.6	23938.6	17250.6	15951.0
69°	1725.7	1728.7	1876.8	2487.2	2810.6	4079.9	15077.6	24745.5	24697.2	18211.6	15790.9
70°	1505.0	1517.1	1689.4	2315.0	2756.2	3354.6	12998.4	24213.6	24165.3	18399.0	15262.0
72.5°	927.8	936.9	1163.5	1855.6	2620.2	2738.1	7773.0	19810.3	19976.6	17540.7	13149.5
75°	444.3	447.3	610.5	1341.8	2526.5	2596.0	4164.6	14618.2	14968.8	14161.9	10275.4
77.5°	235.7	235.7	293.2	713.2	2046.0	2441.9	2472.1	10311.7	10601.8	8954.7	5841.9
80°	117.9	120.9	178.3	371.7	1269.3	2393.6	1931.2	6150.1	6307.3	3653.8	1819.3
82.5°	45.3	48.4	84.6	223.6	658.8	2021.8	1695.4	3025.2	2985.9	855.3	444.3
85°	6.0	6.0	30.2	133.0	281.1	891.5	1399.3	1263.3	1221.0	187.4	214.6
87.5°	0.0	0.0	6.0	39.3	84.6	259.9	541.0	347.5	386.8	51.4	105.8
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°	5648.4	5648.4	5648.4	5648.4	5648.4	5648.4	5648.4	5648.4	5648.4	5648.4	5648.4
2.5°	5736.1	5672.6	5575.9	5482.2	5382.5	5261.6	5128.6	5080.3	4995.7	4989.6	5038.0
5°	5730.0	5627.3	5458.0	5258.6	4974.5	4759.9	4527.2	4358.0	4228.0	4143.4	4164.6
7.5°	5760.3	5636.4	5343.2	4914.1	4548.4	4122.2	3762.6	3514.8	3288.1	3176.3	3164.2
10°	5711.9	5545.7	5116.5	4515.1	3977.2	3381.8	2856.0	2523.5	2185.0	2061.1	2067.2
12.5°	5739.1	5506.4	4871.7	4104.1	3363.7	2590.0	1961.4	1508.1	1190.7	1088.0	1075.9
15°	5757.2	5421.8	4636.0	3611.5	2683.7	1764.9	1136.3	855.3	755.5	737.4	734.4
17.5°	5687.7	5319.0	4303.6	3124.9	1988.6	1072.9	755.5	698.1	680.0	667.9	661.9
20°	5684.7	5258.6	4016.5	2626.3	1326.7	731.4	652.8	631.6	604.4	595.4	595.4
22.5°	5633.3	5131.6	3671.9	2079.3	846.2	628.6	586.3	553.1	522.8	510.7	507.7
25°	5618.2	4983.6	3348.6	1562.5	643.7	562.1	519.8	471.5	435.2	417.1	408.0
27.5°	5575.9	4856.6	3022.2	1100.1	562.1	501.7	447.3	395.9	353.6	326.4	323.4
30°	5424.8	4723.7	2659.5	761.6	510.7	444.3	383.8	323.4	281.1	262.9	256.9
32.5°	5361.3	4599.7	2263.6	586.3	465.4	392.9	323.4	269.0	235.7	217.6	214.6
35°	5285.8	4418.4	1879.8	510.7	423.1	341.5	272.0	226.7	199.5	184.4	184.4
37.5°	5294.8	4273.4	1520.2	462.4	377.8	293.2	232.7	193.4	169.2	154.1	154.1
40°	5267.6	4158.5	1181.7	420.1	335.5	250.8	196.4	163.2	142.0	126.9	123.9
42.5°	5391.6	4128.3	891.5	383.8	293.2	214.6	169.2	139.0	117.9	99.7	99.7
45°	5600.1	4176.6	695.1	350.6	250.8	184.4	145.1	114.8	93.7	81.6	78.6
47.5°	6156.2	4367.0	544.0	323.4	214.6	160.2	120.9	93.7	75.6	63.5	60.4
50°	6963.1	4793.2	462.4	284.1	181.3	136.0	99.7	72.5	60.4	48.4	45.3
52.5°	8111.5	5509.4	420.1	250.8	151.1	111.8	78.6	57.4	45.3	36.3	33.2
55°	9362.7	6404.0	380.8	211.6	126.9	90.7	63.5	45.3	33.2	24.2	21.2
57.5°	10338.9	7177.7	347.5	175.3	102.8	72.5	48.4	33.2	24.2	15.1	12.1
60°	11405.7	7721.7	305.2	139.0	84.6	54.4	36.3	24.2	18.1	9.1	9.1
62.5°	12505.8	8359.3	250.8	108.8	66.5	42.3	27.2	18.1	12.1	3.0	3.0
65°	14035.0	8858.0	193.4	84.6	51.4	30.2	21.2	15.1	6.0	0.0	0.0
67.5°	14467.1	8613.2	142.0	66.5	36.3	21.2	15.1	9.1	3.0	0.0	0.0
69°	14035.0	7757.9	123.9	57.4	30.2	18.1	12.1	6.0	3.0	0.0	0.0
70°	13246.2	7093.0	108.8	48.4	27.2	18.1	9.1	6.0	3.0	0.0	0.0
72.5°	11079.3	5439.9	84.6	36.3	21.2	15.1	9.1	6.0	0.0	0.0	0.0
75°	8126.6	3360.7	63.5	27.2	18.1	12.1	9.1	6.0	0.0	0.0	0.0
77.5°	4355.0	1227.0	45.3	18.1	12.1	9.1	9.1	6.0	0.0	0.0	0.0
80°	1193.8	362.7	33.2	12.1	9.1	6.0	6.0	3.0	0.0	0.0	0.0
82.5°	326.4	93.7	21.2	12.1	9.1	6.0	3.0	0.0	0.0	0.0	0.0
85°	175.3	36.3	12.1	9.1	6.0	3.0	0.0	0.0	0.0	0.0	0.0
87.5°	90.7	12.1	9.1	6.0	6.0	3.0	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)