

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: P483912

Luminaire Tested: **IFLD-M-SA4D-727-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483912  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-727-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

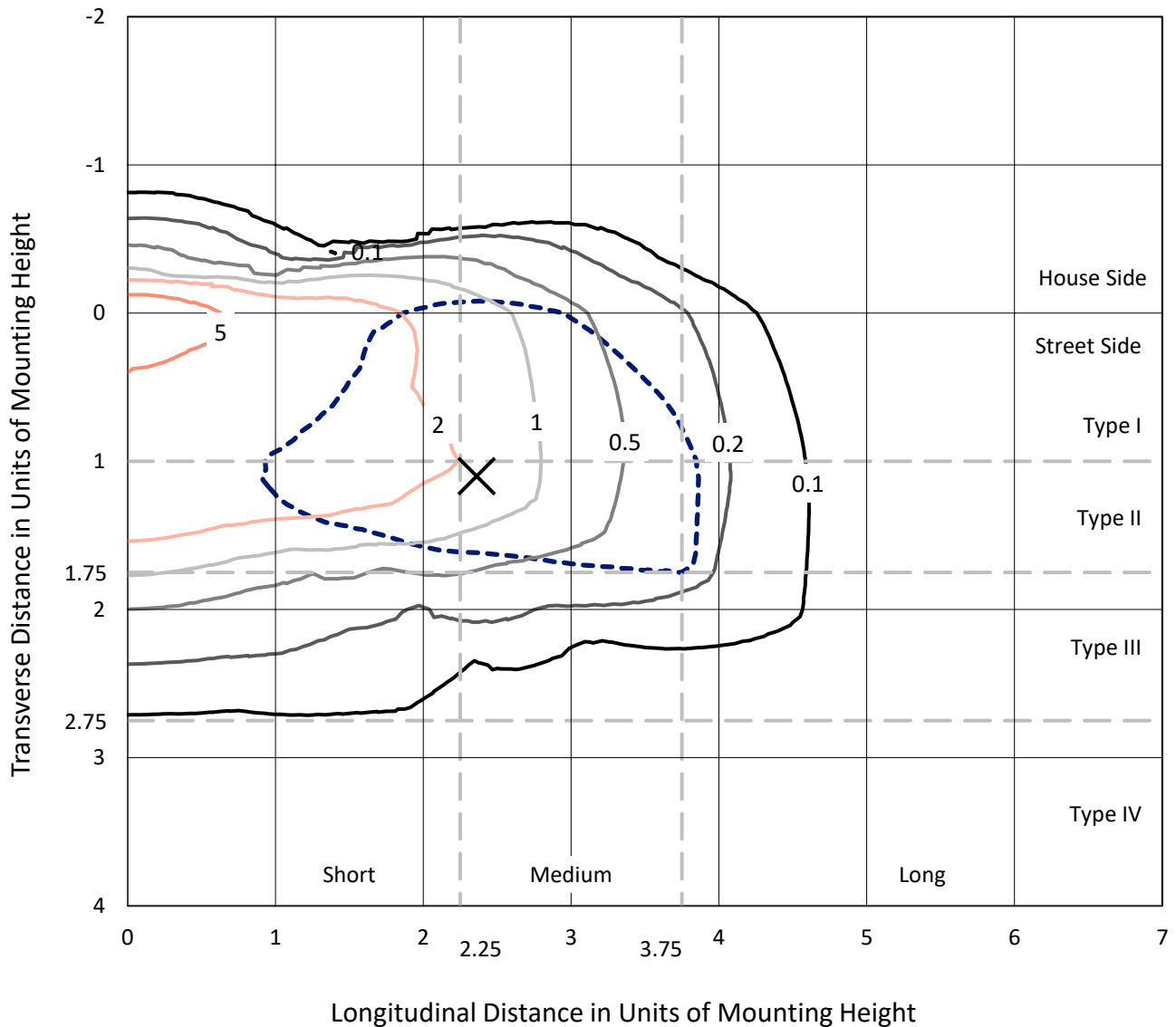
Lumens per Lamp: N/A  
Luminaire Lumens: 21533.3 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7  
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

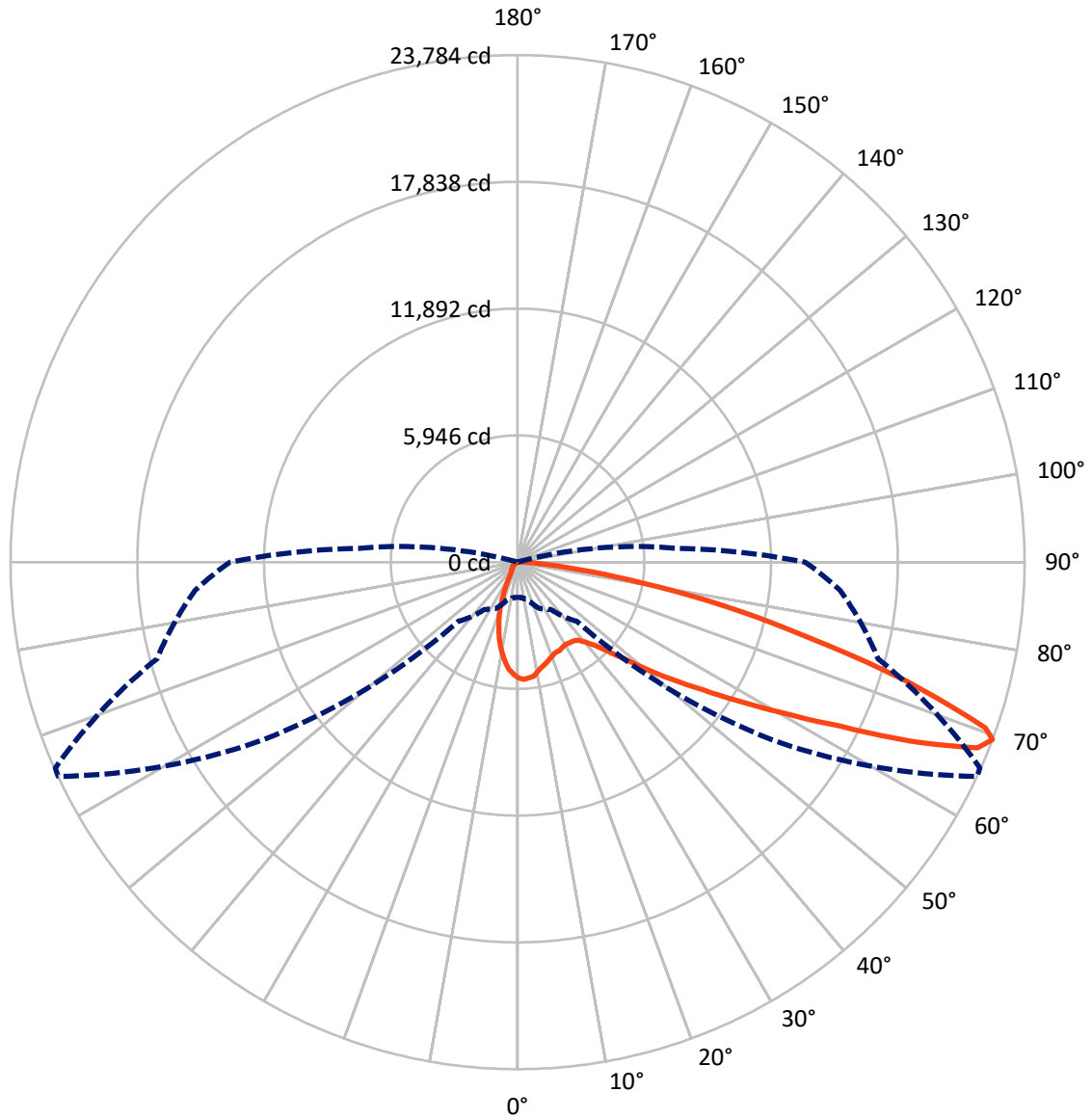
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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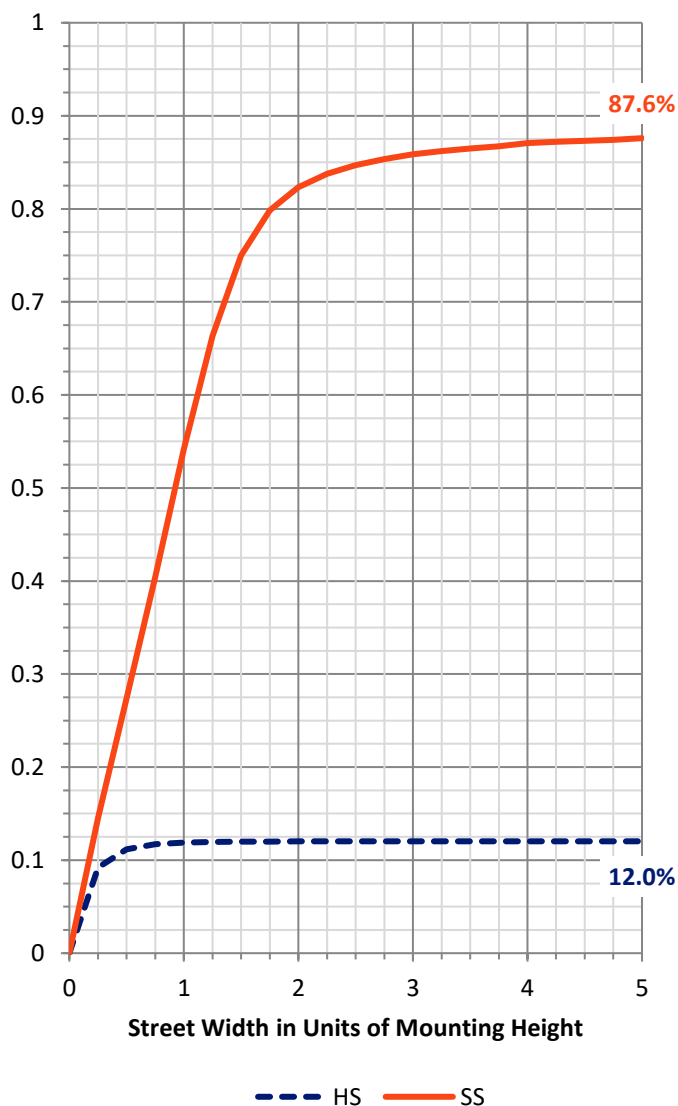
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2612.1	0.0	2612.1
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	18921.2	0.0	18921.2
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	21533.3	0.0	21533.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	444.3	2.1
10°-20°	972.1	4.5
20°-30°	1353.3	6.3
30°-40°	1917.8	8.9
40°-50°	3022.4	14.0
50°-60°	4904.3	22.8
60°-70°	5477.1	25.4
70°-80°	3084.2	14.3
80°-90°	357.9	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°	21533.3	100.0
0°-180°	21533.3	100.0

**Coefficient of Utilization**



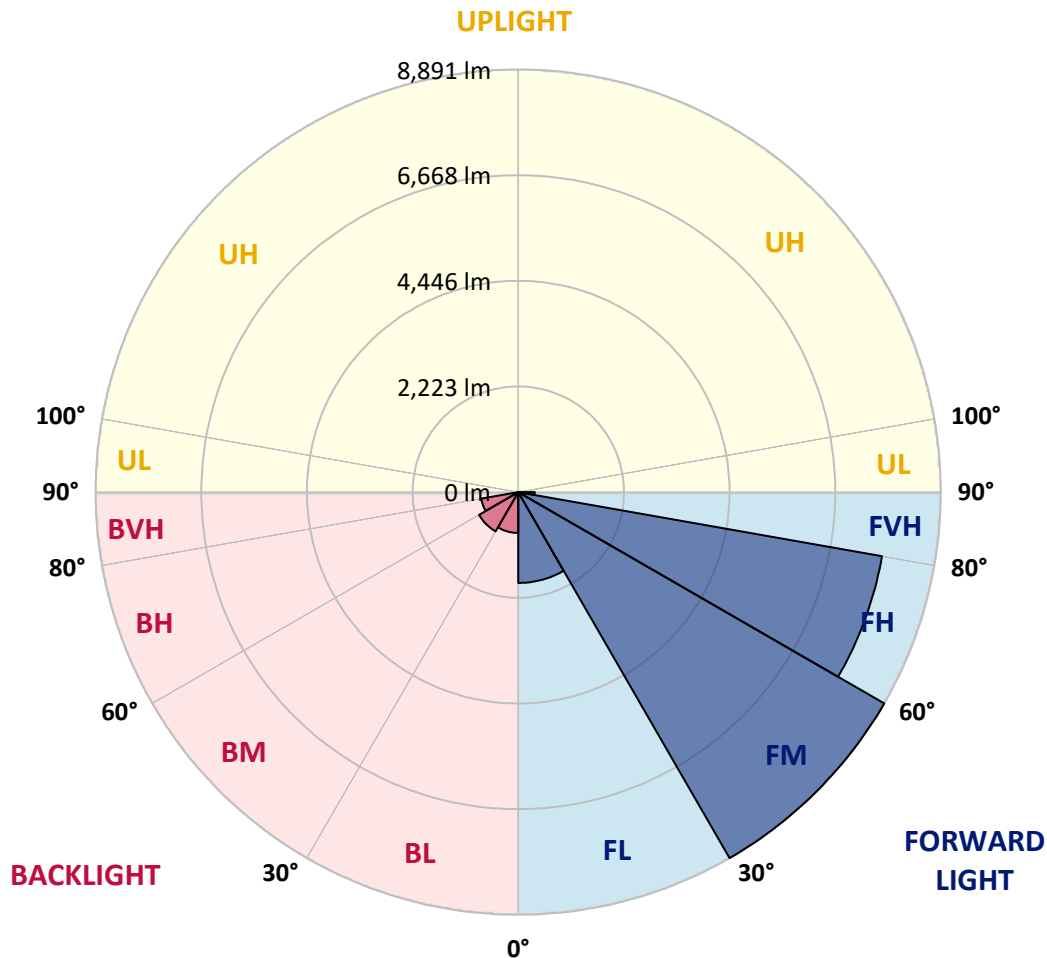
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1910.9	8.9			
FM (30°-60°)	8891.3	41.3			
FH (60°-80°)	7771.0	36.1			G4/12000
FVH (80°-90°)	348.0	1.6			G3/500
BL (0°-30°)	858.8	4.0	B2/1000		
BM (30°-60°)	953.1	4.4	B1/1000		
BH (60°-80°)	790.3	3.7	B2/1000		G2/1000
BVH (80°-90°)	9.9	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-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5429.0	5429.0	5429.0	5429.0	5429.0	5429.0	5429.0	5429.0	5429.0	5429.0	5429.0
2.5°	5228.6	5269.3	5280.9	5321.6	5341.9	5429.0	5478.4	5507.5	5493.0	5524.9	5527.8
5°	4856.8	4833.6	4894.6	4938.1	5031.1	5182.1	5336.1	5455.2	5510.4	5562.7	5554.0
7.5°	4458.8	4447.2	4508.2	4607.0	4691.2	4874.2	5121.1	5414.5	5402.9	5530.7	5568.5
10°	4185.8	4197.4	4217.8	4316.5	4441.4	4627.3	4935.2	5208.3	5269.3	5539.4	5615.0
12.5°	3936.0	3956.3	3994.1	4095.8	4241.0	4432.7	4731.9	5051.4	5144.4	5490.0	5641.1
15°	3854.7	3808.2	3883.7	3959.2	4110.3	4281.7	4534.4	4932.3	4973.0	5432.0	5684.7
17.5°	3787.8	3758.8	3793.7	3854.7	4014.4	4153.8	4392.0	4804.5	4880.0	5408.7	5678.9
20°	3808.2	3782.0	3796.6	3843.0	3915.7	4046.4	4267.1	4682.5	4763.9	5301.2	5670.1
22.5°	3866.3	3886.6	3860.5	3872.1	3895.3	3962.1	4200.3	4595.4	4665.1	5280.9	5719.5
25°	4127.7	4092.8	4058.0	4043.5	3906.9	3936.0	4180.0	4589.6	4638.9	5208.3	5678.9
27.5°	4400.8	4371.7	4357.2	4272.9	4087.0	3999.9	4182.9	4508.2	4575.0	5179.2	5629.5
30°	4731.9	4769.7	4711.6	4609.9	4351.4	4136.4	4214.8	4467.6	4560.5	5068.9	5597.5
32.5°	5080.5	5100.8	5129.9	5054.3	4720.3	4342.7	4310.7	4505.3	4511.1	5068.9	5524.9
35°	5475.5	5446.5	5522.0	5527.8	5234.4	4708.7	4493.7	4531.5	4592.5	5045.6	5498.8
37.5°	5815.4	5864.8	5951.9	6091.3	5789.2	5225.7	4778.4	4653.5	4679.6	5153.1	5519.1
40°	6187.2	6236.6	6434.1	6573.5	6402.2	5806.7	5211.2	4938.1	4958.5	5312.9	5623.7
42.5°	6596.8	6692.6	6927.9	7171.9	7125.4	6544.5	5768.9	5356.4	5347.7	5710.8	5838.6
45°	7151.6	7279.4	7535.0	7816.8	7857.5	7389.8	6512.5	5981.0	6010.0	6230.8	6283.1
47.5°	7924.3	7918.5	8168.3	8482.0	8717.3	8267.0	7401.4	6820.4	6817.5	7052.8	6942.4
50°	8670.8	8673.7	8740.5	9103.6	9713.6	9484.1	8502.3	7935.9	7903.9	8020.1	7842.9
52.5°	9016.5	8975.8	8926.4	9365.0	10480.5	11017.9	9896.6	9199.5	9173.3	9103.6	9057.1
55°	8653.4	8667.9	8665.0	9121.0	10884.2	12635.8	11686.0	10590.9	10547.3	10329.4	10393.3
57.5°	7488.5	7442.1	7543.7	8255.4	10422.4	13739.6	14245.1	12345.3	12232.1	11508.8	11363.5
60°	5574.3	5588.8	5673.1	6512.5	9275.0	13972.0	16693.8	14404.8	13916.8	12339.5	12139.1
62.5°	3892.4	3863.4	3895.3	4365.9	6631.6	13042.5	18349.5	16908.8	16438.2	13283.6	13167.4
65°	2785.7	2747.9	2875.7	3163.3	3982.5	9972.1	18584.8	20243.5	19822.3	14791.2	14512.3
67.5°	2004.3	1998.5	2146.6	2669.5	2829.3	5742.8	16842.0	23264.4	23008.8	16580.5	15331.5
69°	1658.6	1661.5	1803.9	2390.6	2701.5	3921.5	14492.0	23784.4	23737.9	17504.3	15177.5
70°	1446.6	1458.2	1623.8	2225.1	2649.2	3224.3	12493.5	23273.2	23226.7	17684.3	14669.2
72.5°	891.8	900.5	1118.3	1783.5	2518.5	2631.7	7471.1	19040.9	19200.6	16859.4	12638.7
75°	427.0	429.9	586.8	1289.7	2428.4	2495.2	4002.8	14050.5	14387.4	13611.8	9876.3
77.5°	226.6	226.6	281.8	685.5	1966.5	2347.1	2376.1	9911.1	10190.0	8606.9	5615.0
80°	113.3	116.2	171.4	357.3	1220.0	2300.6	1856.2	5911.2	6062.3	3511.9	1748.7
82.5°	43.6	46.5	81.3	215.0	633.2	1943.3	1629.6	2907.7	2869.9	822.1	427.0
85°	5.8	5.8	29.0	127.8	270.1	856.9	1344.9	1214.2	1173.5	180.1	206.2
87.5°	0.0	0.0	5.8	37.8	81.3	249.8	520.0	334.1	371.8	49.4	101.7
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°	5429.0	5429.0	5429.0	5429.0	5429.0	5429.0	5429.0	5429.0	5429.0	5429.0	5429.0
2.5°	5513.3	5452.3	5359.3	5269.3	5173.4	5057.2	4929.4	4882.9	4801.6	4795.8	4842.3
5°	5507.5	5408.7	5246.0	5054.3	4781.3	4575.0	4351.4	4188.7	4063.8	3982.5	4002.8
7.5°	5536.5	5417.4	5135.7	4723.2	4371.7	3962.1	3616.5	3378.3	3160.4	3052.9	3041.3
10°	5490.0	5330.3	4917.8	4339.8	3822.7	3250.5	2745.0	2425.5	2100.2	1981.1	1986.9
12.5°	5516.2	5292.5	4682.5	3944.7	3233.0	2489.4	1885.2	1449.5	1144.5	1045.7	1034.1
15°	5533.6	5211.2	4455.9	3471.2	2579.5	1696.4	1092.2	822.1	726.2	708.8	705.9
17.5°	5466.8	5112.4	4136.4	3003.6	1911.4	1031.2	726.2	671.0	653.6	642.0	636.1
20°	5463.9	5054.3	3860.5	2524.3	1275.2	703.0	627.4	607.1	581.0	572.2	572.2
22.5°	5414.5	4932.3	3529.3	1998.5	813.3	604.2	563.5	531.6	502.5	490.9	488.0
25°	5400.0	4790.0	3218.5	1501.8	618.7	540.3	499.6	453.1	418.3	400.9	392.1
27.5°	5359.3	4668.0	2904.8	1057.3	540.3	482.2	429.9	380.5	339.9	313.7	310.8
30°	5214.1	4540.2	2556.2	732.0	490.9	427.0	368.9	310.8	270.1	252.7	246.9
32.5°	5153.1	4421.1	2175.7	563.5	447.3	377.6	310.8	258.5	226.6	209.1	206.2
35°	5080.5	4246.8	1806.8	490.9	406.7	328.2	261.4	217.9	191.7	177.2	177.2
37.5°	5089.2	4107.4	1461.1	444.4	363.1	281.8	223.7	185.9	162.7	148.1	148.1
40°	5063.0	3997.0	1135.8	403.8	322.4	241.1	188.8	156.9	136.5	122.0	119.1
42.5°	5182.1	3967.9	856.9	368.9	281.8	206.2	162.7	133.6	113.3	95.9	95.9
45°	5382.6	4014.4	668.1	337.0	241.1	177.2	139.4	110.4	90.0	78.4	75.5
47.5°	5917.1	4197.4	522.9	310.8	206.2	154.0	116.2	90.0	72.6	61.0	58.1
50°	6692.6	4607.0	444.4	273.1	174.3	130.7	95.9	69.7	58.1	46.5	43.6
52.5°	7796.5	5295.4	403.8	241.1	145.2	107.5	75.5	55.2	43.6	34.9	32.0
55°	8999.0	6155.2	366.0	203.3	122.0	87.1	61.0	43.6	32.0	23.2	20.3
57.5°	9937.3	6898.9	334.1	168.5	98.8	69.7	46.5	32.0	23.2	14.5	11.6
60°	10962.7	7421.7	293.4	133.6	81.3	52.3	34.9	23.2	17.4	8.7	8.7
62.5°	12020.0	8034.6	241.1	104.6	63.9	40.7	26.1	17.4	11.6	2.9	2.9
65°	13489.8	8513.9	185.9	81.3	49.4	29.0	20.3	14.5	5.8	0.0	0.0
67.5°	13905.2	8278.6	136.5	63.9	34.9	20.3	14.5	8.7	2.9	0.0	0.0
69°	13489.8	7456.6	119.1	55.2	29.0	17.4	11.6	5.8	2.9	0.0	0.0
70°	12731.7	6817.5	104.6	46.5	26.1	17.4	8.7	5.8	2.9	0.0	0.0
72.5°	10649.0	5228.6	81.3	34.9	20.3	14.5	8.7	5.8	0.0	0.0	0.0
75°	7811.0	3230.1	61.0	26.1	17.4	11.6	8.7	5.8	0.0	0.0	0.0
77.5°	4185.8	1179.3	43.6	17.4	11.6	8.7	8.7	5.8	0.0	0.0	0.0
80°	1147.4	348.6	32.0	11.6	8.7	5.8	5.8	2.9	0.0	0.0	0.0
82.5°	313.7	90.0	20.3	11.6	8.7	5.8	2.9	0.0	0.0	0.0	0.0
85°	168.5	34.9	11.6	8.7	5.8	2.9	0.0	0.0	0.0	0.0	0.0
87.5°	87.1	11.6	8.7	5.8	5.8	2.9	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)