

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: P484575

Luminaire Tested: **IFLD-M-SA4D-830-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484575  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-830-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

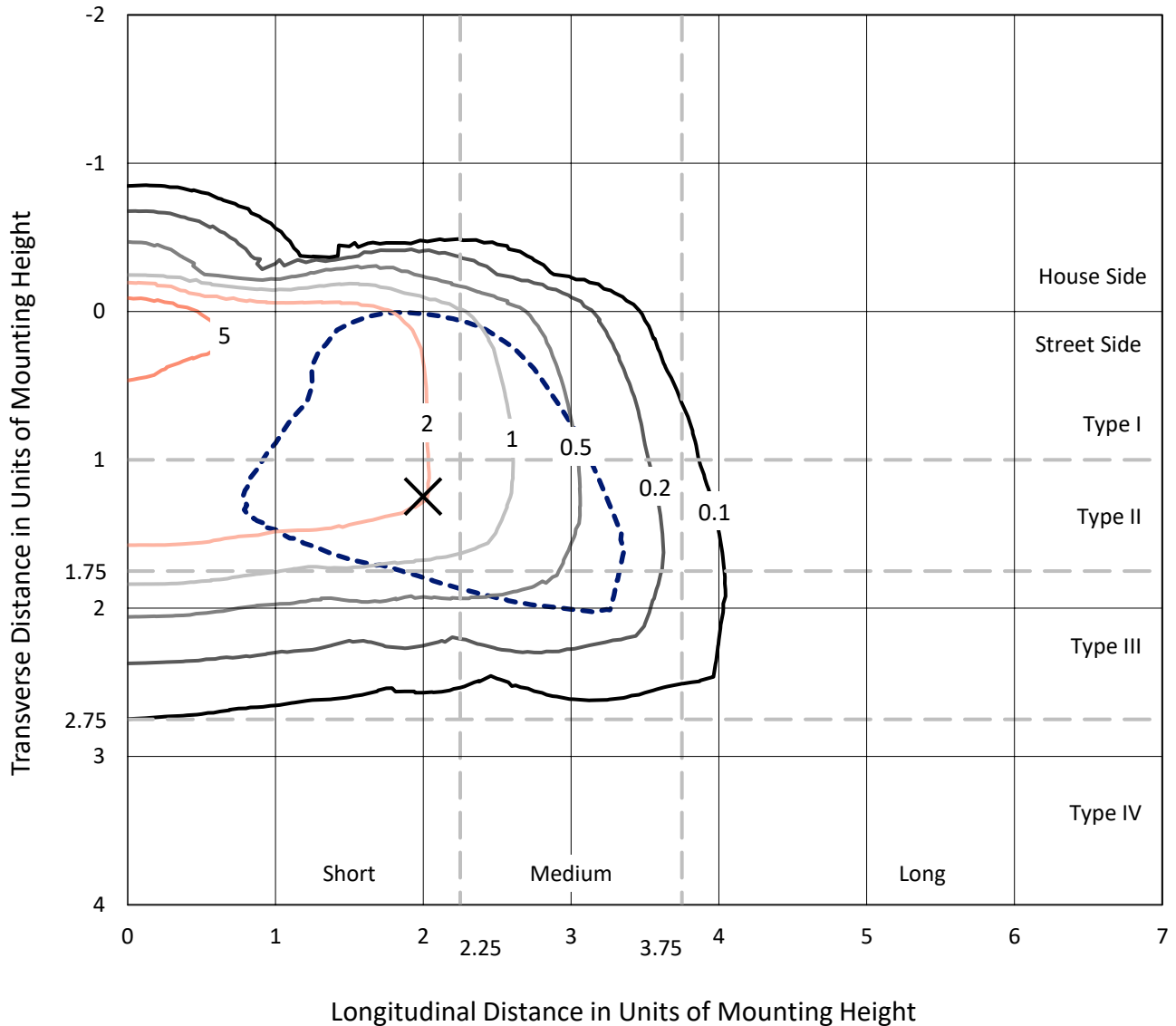
Lumens per Lamp: N/A  
Luminaire Lumens: 20788.8 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

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

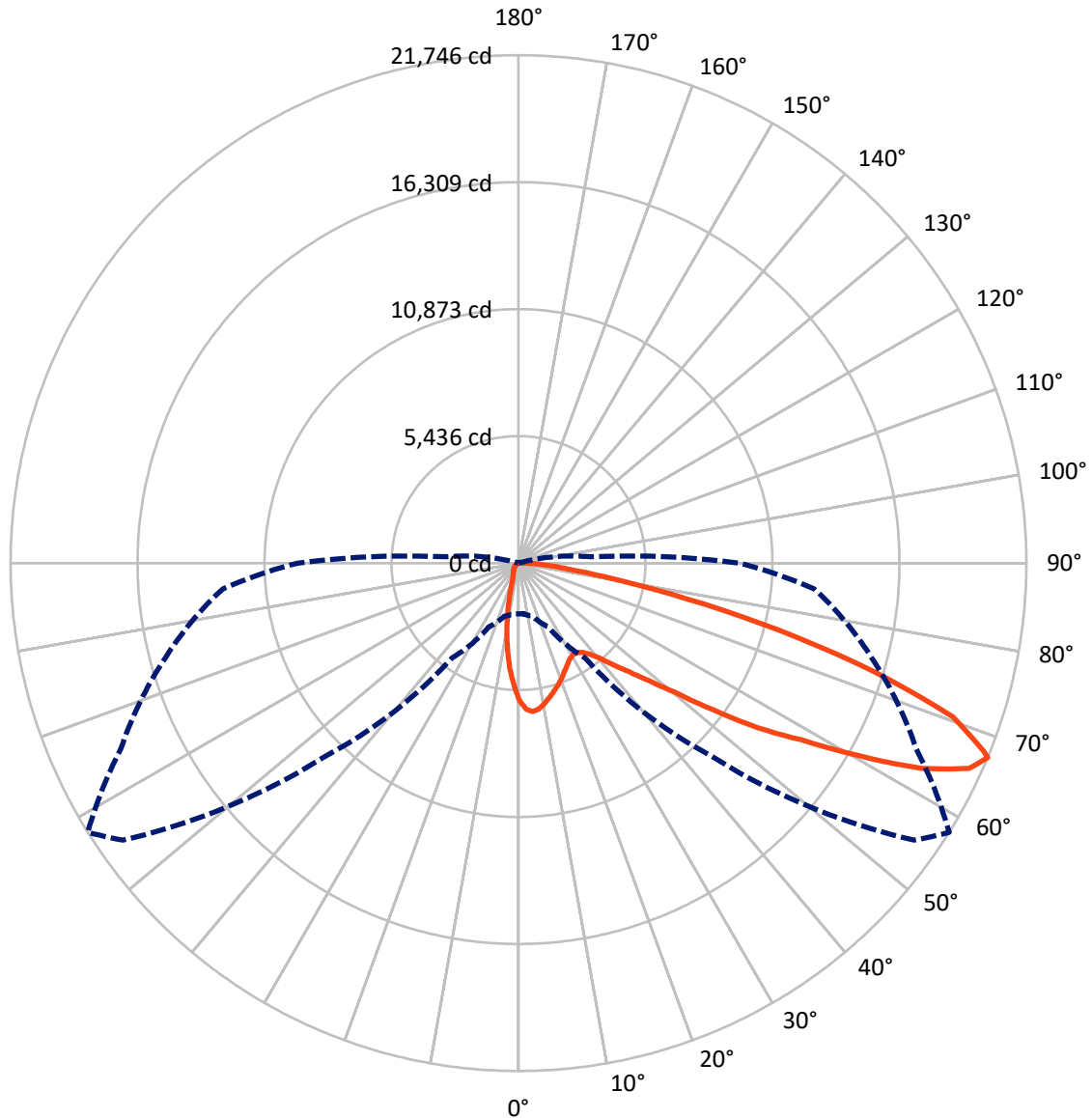
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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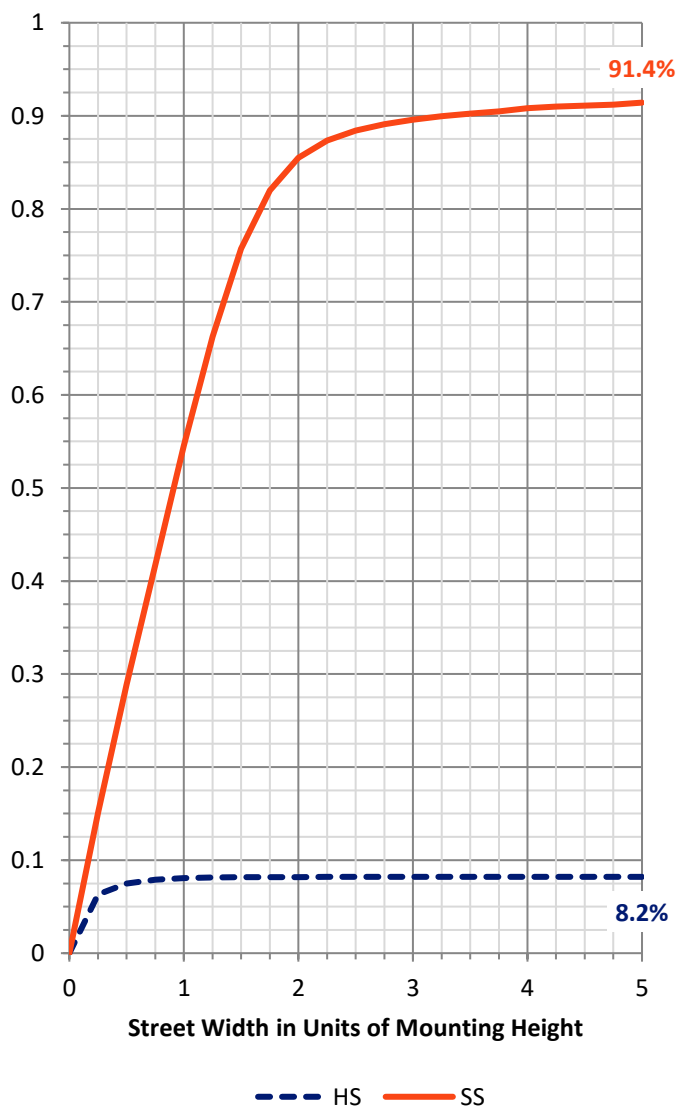
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1718.3	0.0	1718.3
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	19070.5	0.0	19070.5
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	20788.8	0.0	20788.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	467.3	2.2
10°-20°	969.3	4.7
20°-30°	1286.1	6.2
30°-40°	1782.1	8.6
40°-50°	2907.9	14.0
50°-60°	5111.1	24.6
60°-70°	5660.9	27.2
70°-80°	2345.9	11.3
80°-90°	258.2	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°	20788.8	100.0
0°-180°	20788.8	100.0

**Coefficient of Utilization**



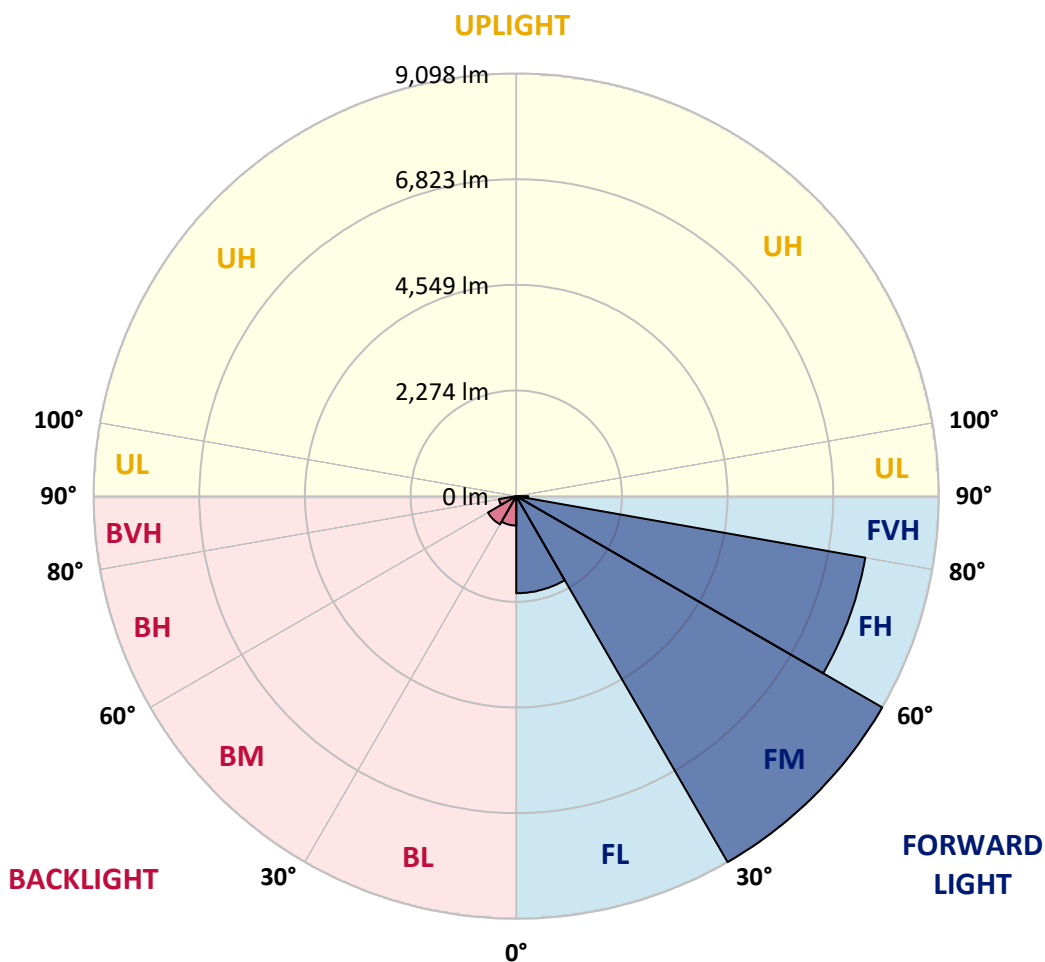
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2089.9	10.1			
FM (30°-60°)	9097.6	43.8			
FH (60°-80°)	7629.0	36.7			G4/12000
FVH (80°-90°)	254.0	1.2			G3/500
BL (0°-30°)	632.9	3.0	B2/1000		
BM (30°-60°)	703.4	3.4	B1/1000		
BH (60°-80°)	377.8	1.8	B1/500		G1/500
BVH (80°-90°)	4.2	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5889.8	5889.8	5889.8	5889.8	5889.8	5889.8	5889.8	5889.8	5889.8	5889.8	5889.8
2.5°	6408.6	6430.7	6450.0	6414.1	6444.5	6400.3	6287.2	6262.3	6243.0	6074.7	5978.1
5°	6405.9	6381.0	6400.3	6416.9	6375.5	6408.6	6381.0	6383.8	6309.3	6157.5	5887.0
7.5°	5978.1	5967.0	5978.1	6058.1	6149.2	6220.9	6262.3	6303.7	6254.1	6027.7	5765.6
10°	5401.2	5456.4	5486.8	5630.3	5771.1	5903.6	6033.3	6110.5	6096.7	6005.7	5633.1
12.5°	4998.3	4981.7	5092.1	5186.0	5326.7	5594.4	5820.8	5892.5	5975.3	5848.4	5459.2
15°	4625.7	4581.5	4647.8	4810.6	5050.7	5263.2	5580.6	5688.3	5793.2	5826.3	5365.4
17.5°	4269.7	4291.7	4360.7	4507.0	4733.3	5031.4	5329.5	5484.0	5735.2	5691.0	5224.6
20°	4098.5	4145.5	4170.3	4244.8	4402.1	4700.2	5144.6	5268.8	5536.5	5688.3	5086.6
22.5°	4106.8	4106.8	4048.9	4093.0	4236.5	4468.4	4893.4	5031.4	5456.4	5544.8	4962.4
25°	4195.1	4139.9	4142.7	4090.3	4151.0	4277.9	4667.1	4835.4	5293.6	5558.6	4896.2
27.5°	4261.4	4250.3	4233.8	4220.0	4142.7	4162.0	4518.1	4656.0	5230.1	5542.0	4794.0
30°	4501.5	4451.8	4435.3	4404.9	4302.8	4208.9	4399.4	4573.3	5180.4	5580.6	4736.1
32.5°	4703.0	4711.2	4725.0	4636.7	4548.4	4316.6	4432.5	4570.5	5144.6	5669.0	4794.0
35°	4956.9	4992.8	4998.3	4970.7	4876.8	4647.8	4570.5	4689.2	5205.3	5826.3	4799.6
37.5°	5343.3	5304.6	5409.5	5420.6	5354.3	5050.7	4890.6	4937.6	5384.7	6077.4	5009.3
40°	5594.4	5641.4	5837.3	5958.8	5845.6	5569.6	5354.3	5346.0	5644.1	6472.1	5268.8
42.5°	5873.2	5978.1	6193.3	6455.5	6441.7	6185.1	5967.0	5931.2	6105.0	7043.4	5680.0
45°	6254.1	6347.9	6648.7	7043.4	7258.7	7040.7	6712.2	6640.5	6665.3	7821.7	6381.0
47.5°	6886.1	6861.3	7294.6	7683.7	8037.0	7868.6	7727.9	7518.1	7498.8	8738.0	7349.8
50°	7600.9	7595.4	7981.8	8423.4	8831.9	9160.3	8925.7	8696.6	8702.1	9982.8	8489.6
52.5°	8279.9	8387.5	8804.3	9243.1	9944.1	10297.4	10523.7	10432.6	9993.8	11095.0	9709.5
55°	8638.7	8732.5	9146.5	9902.7	11009.5	11917.5	12530.2	12452.9	11605.6	12348.1	10912.9
57.5°	8299.2	8362.7	8922.9	9913.8	11754.7	13780.5	14368.3	14271.7	13272.6	13305.8	12367.4
60°	6877.8	6977.2	7810.7	8972.6	11464.9	15215.7	16899.2	16752.9	14790.6	14517.4	13303.0
62.5°	4763.7	4829.9	5514.4	6960.6	10090.4	15715.2	19289.3	19369.4	16391.4	15461.3	13581.8
65°	3085.6	3080.1	3472.0	4451.8	7151.1	14202.7	20702.4	21199.2	17937.0	15604.8	13496.2
67°	2180.4	2172.1	2357.0	3019.4	4951.4	11702.2	20677.6	21745.7	18776.0	15646.2	12704.1
67.5°	2012.0	2003.7	2180.4	2776.5	4468.4	10882.5	20368.5	21464.2	19071.3	15588.2	12356.3
70°	1562.1	1540.1	1606.3	1912.7	2602.6	7037.9	17431.9	19717.1	18458.6	14142.0	9866.9
72.5°	1128.8	1153.7	1258.5	1570.4	2042.4	3786.7	13286.4	15944.3	15417.1	10659.0	6270.6
75°	786.6	808.7	977.0	1280.6	1874.0	2296.3	8983.7	11564.2	10739.0	5884.2	2671.6
77.5°	411.2	438.8	623.8	1023.9	1702.9	1777.4	5368.1	7333.2	5691.0	2094.8	736.9
80°	190.4	204.2	311.9	725.9	1424.1	1562.1	3129.8	4079.2	2277.0	469.2	253.9
82.5°	82.8	91.1	143.5	416.8	1010.1	1366.2	1937.5	2139.0	825.2	151.8	157.3
85°	16.6	19.3	55.2	220.8	488.5	828.0	1360.7	1269.6	414.0	74.5	124.2
87.5°	0.0	0.0	13.8	63.5	132.5	245.6	576.8	576.8	127.0	38.6	46.9
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°	5889.8	5889.8	5889.8	5889.8	5889.8	5889.8	5889.8	5889.8	5889.8	5889.8	5889.8
2.5°	5892.5	5793.2	5575.1	5373.6	5230.1	5067.3	4852.0	4755.4	4719.5	4669.8	4595.3
5°	5738.0	5616.5	5243.9	4868.6	4457.3	4145.5	3814.3	3621.1	3474.8	3383.7	3353.3
7.5°	5519.9	5271.5	4769.2	4167.5	3634.9	3171.2	2668.9	2329.4	2111.4	2023.0	1940.3
10°	5346.0	5023.1	4258.6	3510.7	2801.4	2122.4	1556.6	1258.5	1032.2	946.7	935.6
12.5°	5119.7	4733.3	3781.1	2840.0	1948.5	1264.1	861.1	747.9	684.5	673.4	665.1
15°	4932.0	4471.1	3328.5	2199.7	1261.3	789.3	670.7	643.1	626.5	621.0	623.8
17.5°	4805.1	4189.6	2864.8	1600.8	830.7	645.8	618.2	601.7	593.4	590.6	582.4
20°	4553.9	3952.3	2406.7	1120.5	648.6	596.2	574.1	560.3	552.0	549.2	546.5
22.5°	4410.4	3651.4	1948.5	781.1	576.8	541.0	524.4	513.4	499.6	491.3	488.5
25°	4266.9	3430.6	1540.1	607.2	524.4	499.6	474.7	460.9	438.8	427.8	425.0
27.5°	4098.5	3212.6	1186.8	527.2	472.0	447.1	422.3	400.2	372.6	361.6	356.0
30°	4001.9	3000.1	894.2	472.0	433.3	400.2	369.8	342.2	311.9	292.6	287.0
32.5°	3952.3	2806.9	670.7	430.6	391.9	356.0	317.4	284.3	256.7	240.1	237.4
35°	3891.5	2619.2	527.2	391.9	353.3	314.6	276.0	242.9	215.3	201.5	196.0
37.5°	3955.0	2508.8	438.8	361.6	322.9	278.8	237.4	204.2	182.2	168.4	165.6
40°	4128.9	2417.7	380.9	334.0	292.6	245.6	207.0	173.9	154.6	143.5	138.0
42.5°	4396.6	2417.7	345.0	306.4	265.0	215.3	176.6	151.8	132.5	121.4	118.7
45°	4882.4	2492.2	314.6	278.8	231.8	184.9	151.8	127.0	107.6	96.6	93.8
47.5°	5564.1	2663.4	289.8	253.9	207.0	162.8	132.5	107.6	88.3	77.3	74.5
50°	6480.4	3052.5	265.0	223.6	184.9	140.8	110.4	85.6	69.0	58.0	55.2
52.5°	7623.0	3604.5	240.1	207.0	157.3	118.7	88.3	69.0	52.4	44.2	41.4
55°	8831.9	4280.7	209.8	184.9	135.2	99.4	71.8	52.4	38.6	33.1	30.4
57.5°	10049.0	4802.3	184.9	160.1	110.4	80.0	58.0	41.4	27.6	22.1	19.3
60°	10694.8	4852.0	160.1	132.5	88.3	63.5	44.2	30.4	19.3	13.8	11.0
62.5°	10794.2	4410.4	138.0	107.6	71.8	49.7	30.4	22.1	11.0	5.5	5.5
65°	10283.6	3676.3	118.7	85.6	55.2	35.9	22.1	13.8	5.5	2.8	0.0
67°	9455.6	3080.1	102.1	71.8	44.2	27.6	16.6	8.3	2.8	0.0	0.0
67.5°	9135.5	2914.5	96.6	66.2	41.4	24.8	13.8	8.3	2.8	0.0	0.0
70°	7090.3	2081.0	71.8	46.9	30.4	19.3	11.0	5.5	0.0	0.0	0.0
72.5°	4344.2	1217.1	55.2	33.1	22.1	13.8	8.3	2.8	0.0	0.0	0.0
75°	1821.6	419.5	46.9	24.8	16.6	8.3	5.5	2.8	0.0	0.0	0.0
77.5°	474.7	157.3	33.1	16.6	11.0	8.3	5.5	2.8	0.0	0.0	0.0
80°	193.2	71.8	22.1	11.0	11.0	8.3	5.5	2.8	0.0	0.0	0.0
82.5°	127.0	33.1	13.8	11.0	8.3	5.5	2.8	0.0	0.0	0.0	0.0
85°	96.6	19.3	8.3	8.3	5.5	2.8	0.0	0.0	0.0	0.0	0.0
87.5°	41.4	11.0	8.3	5.5	5.5	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)