

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: P484185

Luminaire Tested: **IFLD-M-SA4D-830-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484185
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-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

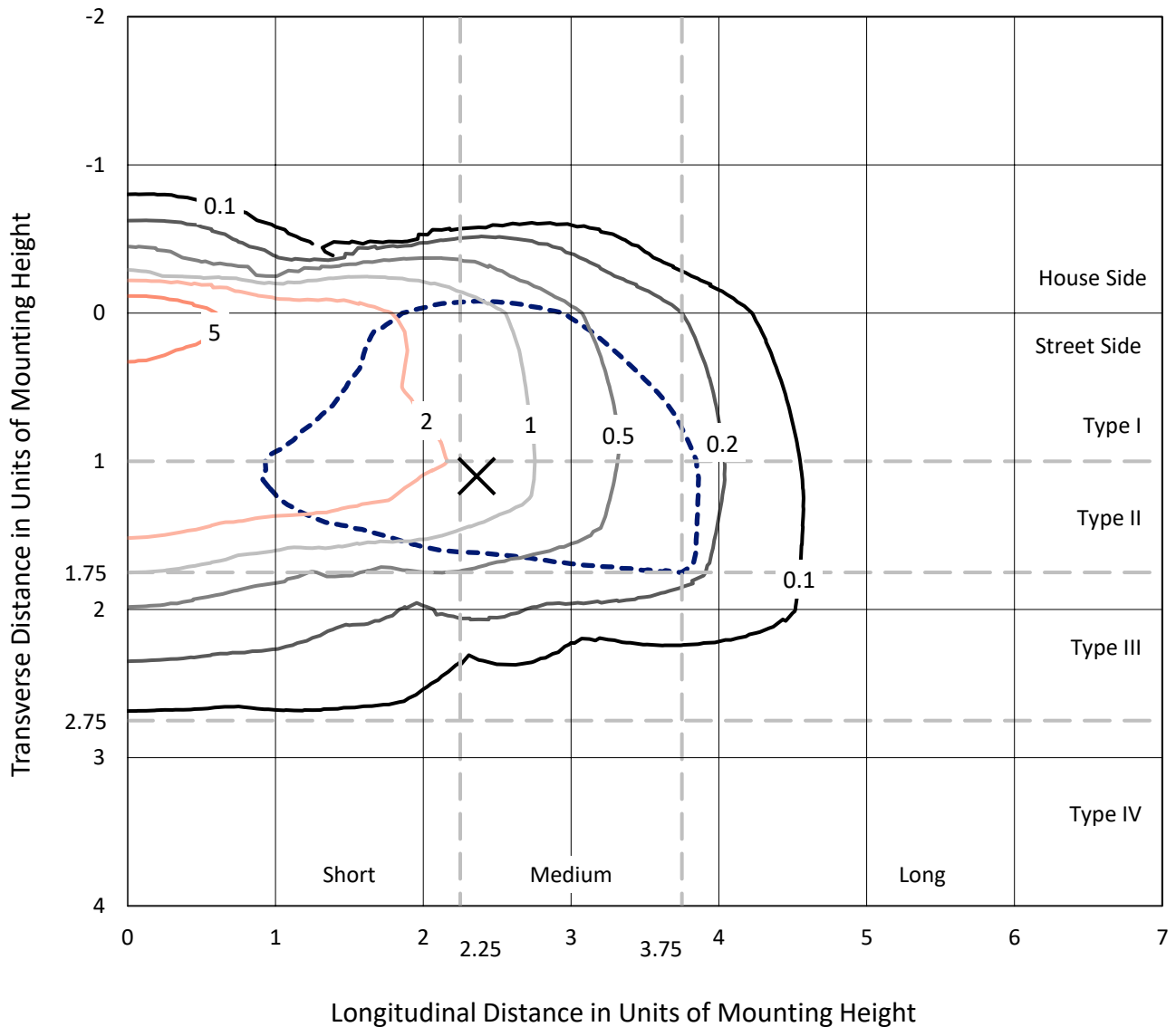
Lumens per Lamp: N/A
Luminaire Lumens: 20459.6 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

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

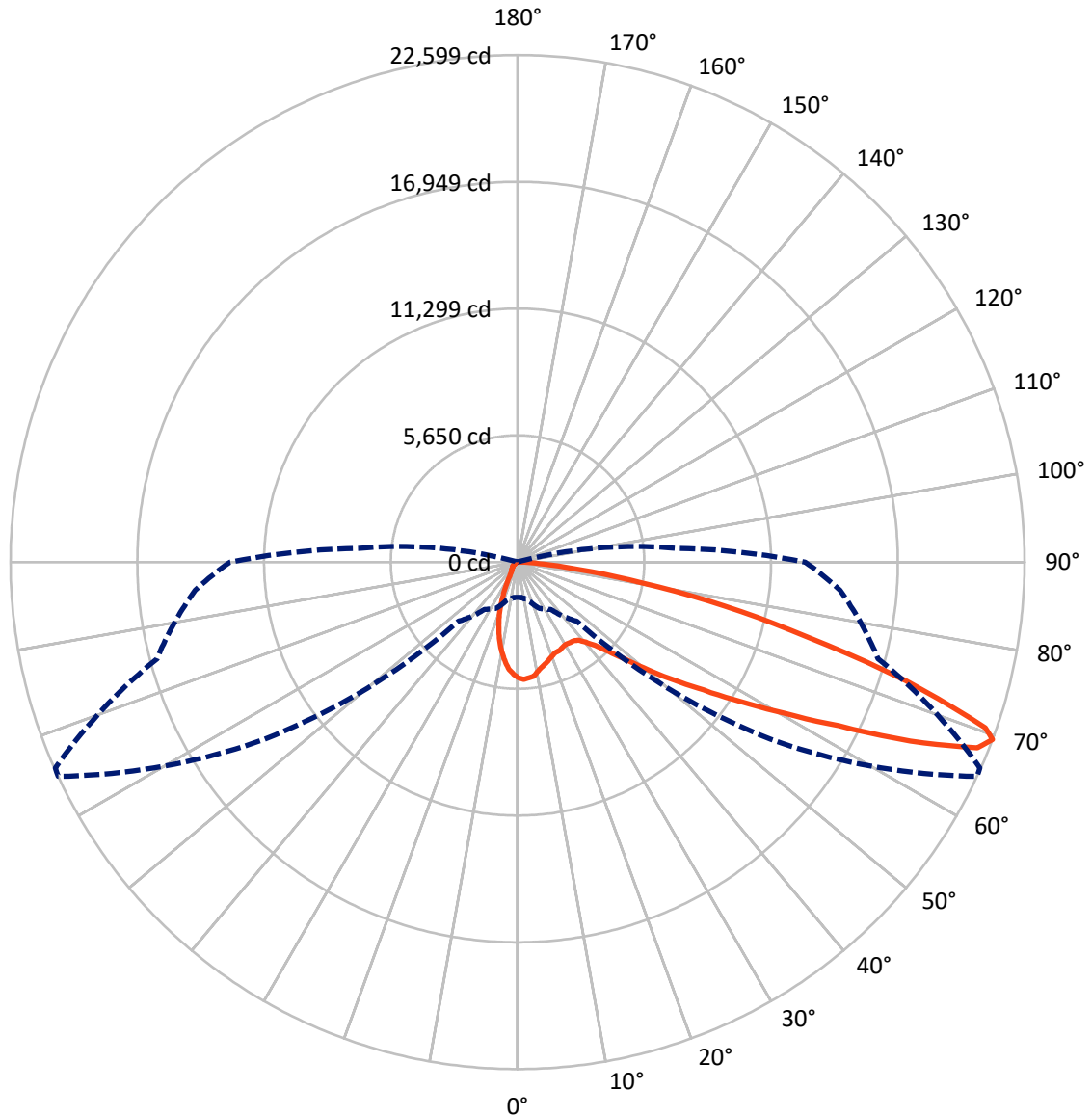
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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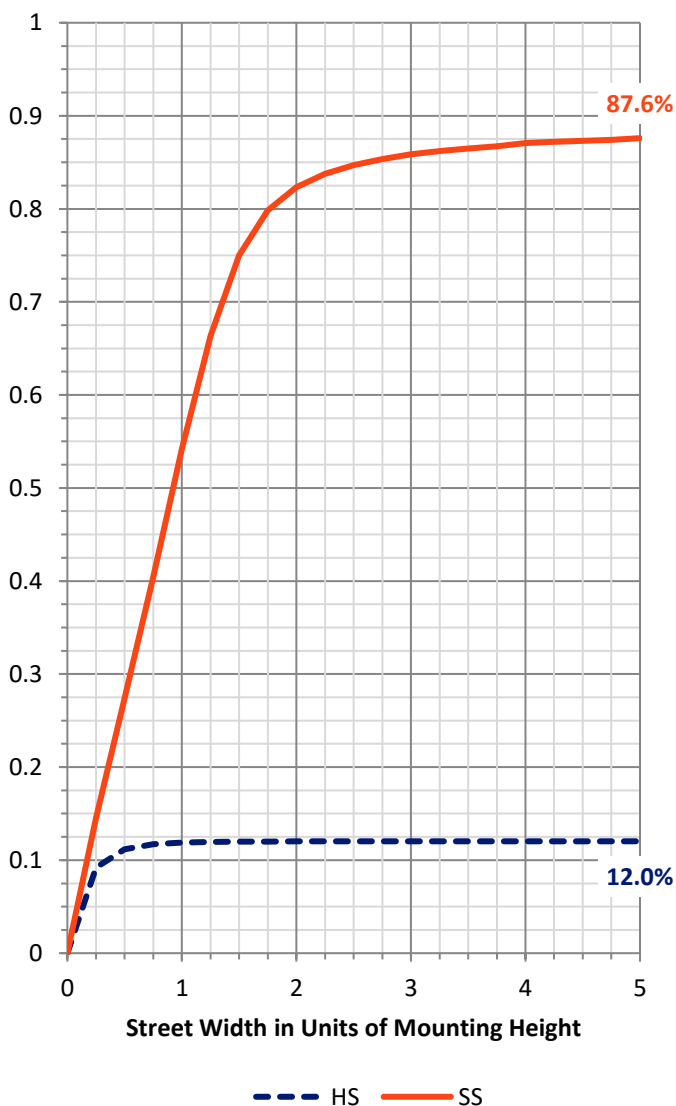
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2481.9	0.0	2481.9
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	17977.7	0.0	17977.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	20459.6	0.0	20459.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.1	2.1
10°-20°	923.6	4.5
20°-30°	1285.8	6.3
30°-40°	1822.2	8.9
40°-50°	2871.7	14.0
50°-60°	4659.7	22.8
60°-70°	5204.0	25.4
70°-80°	2930.4	14.3
80°-90°	340.0	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°	20459.6	100.0
0°-180°	20459.6	100.0

Coefficient of Utilization

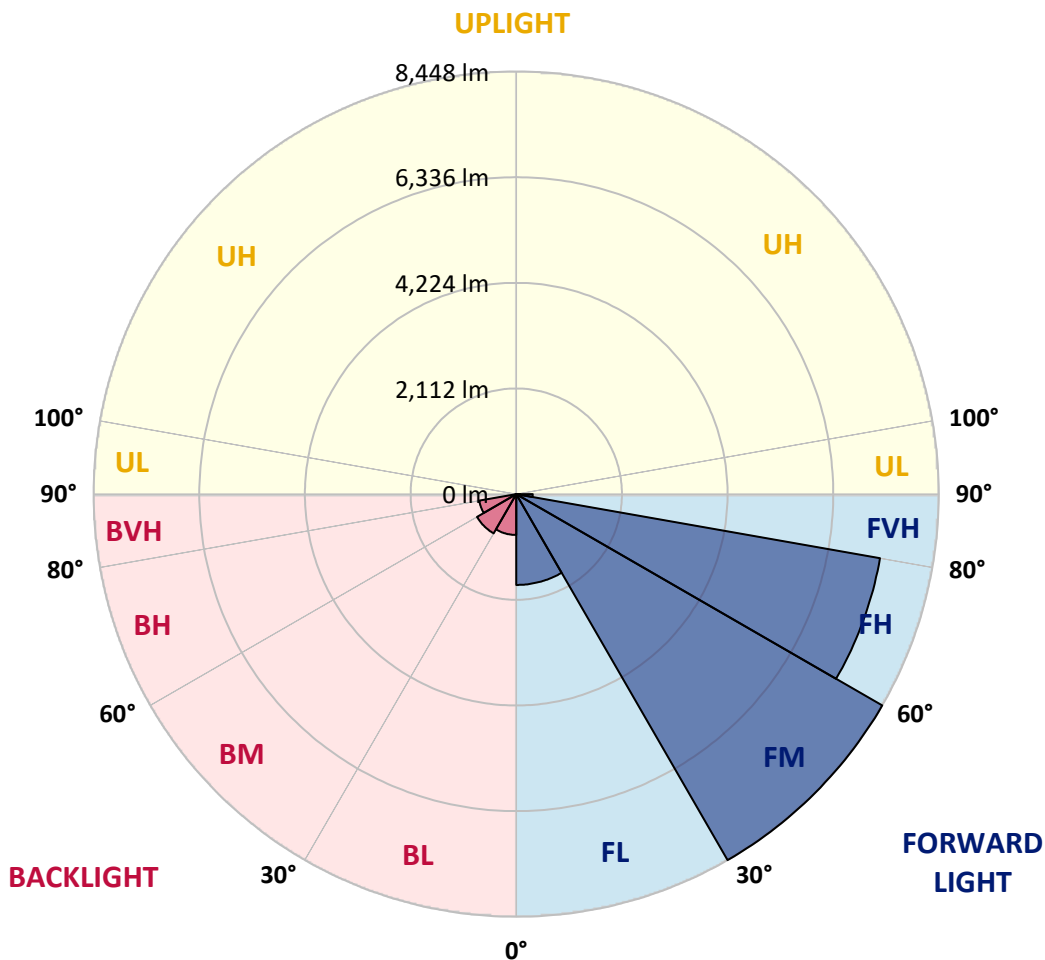


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1815.6	8.9			
FM (30°-60°)	8448.0	41.3			
FH (60°-80°)	7383.5	36.1			G3/7500
FVH (80°-90°)	330.7	1.6			G3/500
BL (0°-30°)	816.0	4.0	B2/1000		
BM (30°-60°)	905.6	4.4	B1/1000		
BH (60°-80°)	750.9	3.7	B2/1000		G2/1000
BVH (80°-90°)	9.4	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5158.3	5158.3	5158.3	5158.3	5158.3	5158.3	5158.3	5158.3	5158.3	5158.3	5158.3
2.5°	4967.9	5006.5	5017.6	5056.2	5075.5	5158.3	5205.3	5232.9	5219.1	5249.4	5252.2
5°	4614.6	4592.6	4650.5	4691.9	4780.2	4923.7	5070.0	5183.2	5235.6	5285.3	5277.0
7.5°	4236.5	4225.5	4283.4	4377.3	4457.3	4631.2	4865.8	5144.5	5133.5	5254.9	5290.8
10°	3977.1	3988.1	4007.4	4101.3	4220.0	4396.6	4689.2	4948.6	5006.5	5263.2	5335.0
12.5°	3739.7	3759.0	3794.9	3891.5	4029.5	4211.7	4496.0	4799.5	4887.9	5216.3	5359.8
15°	3662.5	3618.3	3690.1	3761.8	3905.3	4068.2	4308.3	4686.4	4725.0	5161.1	5401.2
17.5°	3599.0	3571.4	3604.5	3662.5	3814.2	3946.7	4173.0	4565.0	4636.7	5139.0	5395.7
20°	3618.3	3593.5	3607.3	3651.4	3720.4	3844.6	4054.4	4449.0	4526.3	5036.9	5387.4
22.5°	3673.5	3692.8	3668.0	3679.0	3701.1	3764.6	3990.9	4366.2	4432.5	5017.6	5434.3
25°	3921.9	3888.8	3855.6	3841.8	3712.1	3739.7	3971.6	4360.7	4407.6	4948.6	5395.7
27.5°	4181.3	4153.7	4139.9	4059.9	3883.2	3800.4	3974.3	4283.4	4346.9	4921.0	5348.8
30°	4496.0	4531.8	4476.6	4380.0	4134.4	3930.2	4004.7	4244.8	4333.1	4816.1	5318.4
32.5°	4827.1	4846.5	4874.1	4802.3	4484.9	4126.1	4095.8	4280.7	4286.2	4816.1	5249.4
35°	5202.5	5174.9	5246.7	5252.2	4973.4	4473.9	4269.6	4305.5	4363.5	4794.0	5224.6
37.5°	5525.4	5572.3	5655.1	5787.6	5500.6	4965.1	4540.1	4421.4	4446.3	4896.1	5243.9
40°	5878.7	5925.6	6113.3	6245.8	6082.9	5517.1	4951.3	4691.9	4711.2	5047.9	5343.3
42.5°	6267.8	6358.9	6582.5	6814.3	6770.2	6218.2	5481.3	5089.3	5081.1	5426.1	5547.5
45°	6795.0	6916.4	7159.3	7427.0	7465.7	7021.3	6187.8	5682.7	5710.3	5920.1	5969.8
47.5°	7529.1	7523.6	7761.0	8059.0	8282.6	7854.8	7032.3	6480.4	6477.6	6701.2	6596.3
50°	8238.4	8241.2	8304.7	8649.7	9229.3	9011.2	8078.4	7540.2	7509.8	7620.2	7451.9
52.5°	8566.9	8528.2	8481.3	8898.1	9957.9	10468.5	9403.1	8740.8	8715.9	8649.7	8605.5
55°	8221.9	8235.7	8232.9	8666.2	10341.5	12005.8	11103.3	10062.8	10021.4	9814.4	9875.1
57.5°	7115.1	7071.0	7167.6	7843.8	9902.7	13054.6	13534.8	11729.8	11622.1	10934.9	10796.9
60°	5296.3	5310.1	5390.2	6187.8	8812.5	13275.3	15861.4	13686.6	13222.9	11724.3	11533.8
62.5°	3698.3	3670.7	3701.1	4148.2	6301.0	12392.2	17434.6	16065.7	15618.5	12621.2	12510.8
65°	2646.8	2610.9	2732.3	3005.6	3783.9	9474.9	17658.1	19234.1	18833.9	14053.7	13788.7
67.5°	1904.4	1898.8	2039.6	2536.4	2688.2	5456.4	16002.2	22104.4	21861.5	15753.8	14567.0
69°	1575.9	1578.7	1713.9	2271.4	2566.8	3725.9	13769.4	22598.5	22554.3	16631.4	14420.7
70°	1374.5	1385.5	1542.8	2114.1	2517.1	3063.5	11870.5	22112.7	22068.5	16802.6	13937.7
72.5°	847.3	855.6	1062.6	1694.6	2392.9	2500.5	7098.6	18091.5	18243.3	16018.7	12008.5
75°	405.7	408.5	557.5	1225.4	2307.3	2370.8	3803.2	13349.9	13670.0	12933.1	9383.8
77.5°	215.3	215.3	267.7	651.3	1868.5	2230.0	2257.6	9416.9	9681.9	8177.7	5335.0
80°	107.6	110.4	162.8	339.5	1159.2	2185.9	1763.6	5616.5	5760.0	3336.8	1661.5
82.5°	41.4	44.2	77.3	204.2	601.7	1846.4	1548.3	2762.7	2726.8	781.1	405.7
85°	5.5	5.5	27.6	121.4	256.7	814.2	1277.9	1153.7	1115.0	171.1	196.0
87.5°	0.0	0.0	5.5	35.9	77.3	237.4	494.0	317.4	353.3	46.9	96.6
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°	5158.3	5158.3	5158.3	5158.3	5158.3	5158.3	5158.3	5158.3	5158.3	5158.3	5158.3
2.5°	5238.4	5180.4	5092.1	5006.5	4915.5	4805.1	4683.6	4639.5	4562.2	4556.7	4600.8
5°	5232.9	5139.0	4984.5	4802.3	4542.9	4346.9	4134.4	3979.8	3861.2	3783.9	3803.2
7.5°	5260.5	5147.3	4879.6	4487.7	4153.7	3764.6	3436.1	3209.8	3002.8	2900.7	2889.7
10°	5216.3	5064.5	4672.6	4123.4	3632.1	3088.4	2608.2	2304.6	1995.4	1882.3	1887.8
12.5°	5241.1	5028.6	4449.0	3748.0	3071.8	2365.3	1791.2	1377.2	1087.4	993.6	982.5
15°	5257.7	4951.3	4233.8	3298.1	2450.8	1611.8	1037.7	781.1	690.0	673.4	670.7
17.5°	5194.2	4857.5	3930.2	2853.8	1816.0	979.8	690.0	637.5	621.0	609.9	604.4
20°	5191.5	4802.3	3668.0	2398.4	1211.6	667.9	596.1	576.8	552.0	543.7	543.7
22.5°	5144.5	4686.4	3353.3	1898.8	772.8	574.1	535.4	505.1	477.5	466.4	463.7
25°	5130.7	4551.2	3058.0	1426.9	587.9	513.4	474.7	430.6	397.4	380.9	372.6
27.5°	5092.1	4435.2	2759.9	1004.6	513.4	458.2	408.5	361.6	322.9	298.1	295.3
30°	4954.1	4313.8	2428.8	695.5	466.4	405.7	350.5	295.3	256.7	240.1	234.6
32.5°	4896.1	4200.6	2067.2	535.4	425.0	358.8	295.3	245.6	215.3	198.7	196.0
35°	4827.1	4035.0	1716.7	466.4	386.4	311.9	248.4	207.0	182.2	168.4	168.4
37.5°	4835.4	3902.6	1388.3	422.3	345.0	267.7	212.5	176.6	154.6	140.8	140.8
40°	4810.6	3797.7	1079.1	383.6	306.4	229.1	179.4	149.0	129.7	115.9	113.2
42.5°	4923.7	3770.1	814.2	350.5	267.7	196.0	154.6	127.0	107.6	91.1	91.1
45°	5114.2	3814.2	634.8	320.2	229.1	168.4	132.5	104.9	85.6	74.5	71.8
47.5°	5622.0	3988.1	496.8	295.3	196.0	146.3	110.4	85.6	69.0	58.0	55.2
50°	6358.9	4377.3	422.3	259.4	165.6	124.2	91.1	66.2	55.2	44.2	41.4
52.5°	7407.7	5031.4	383.6	229.1	138.0	102.1	71.8	52.4	41.4	33.1	30.4
55°	8550.3	5848.3	347.8	193.2	115.9	82.8	58.0	41.4	30.4	22.1	19.3
57.5°	9441.8	6554.9	317.4	160.1	93.8	66.2	44.2	30.4	22.1	13.8	11.0
60°	10416.0	7051.7	278.8	127.0	77.3	49.7	33.1	22.1	16.6	8.3	8.3
62.5°	11420.7	7634.0	229.1	99.4	60.7	38.6	24.8	16.6	11.0	2.8	2.8
65°	12817.2	8089.4	176.6	77.3	46.9	27.6	19.3	13.8	5.5	0.0	0.0
67.5°	13211.9	7865.9	129.7	60.7	33.1	19.3	13.8	8.3	2.8	0.0	0.0
69°	12817.2	7084.8	113.2	52.4	27.6	16.6	11.0	5.5	2.8	0.0	0.0
70°	12096.9	6477.6	99.4	44.2	24.8	16.6	8.3	5.5	2.8	0.0	0.0
72.5°	10118.0	4967.9	77.3	33.1	19.3	13.8	8.3	5.5	0.0	0.0	0.0
75°	7421.5	3069.1	58.0	24.8	16.6	11.0	8.3	5.5	0.0	0.0	0.0
77.5°	3977.1	1120.5	41.4	16.6	11.0	8.3	8.3	5.5	0.0	0.0	0.0
80°	1090.2	331.2	30.4	11.0	8.3	5.5	5.5	2.8	0.0	0.0	0.0
82.5°	298.1	85.6	19.3	11.0	8.3	5.5	2.8	0.0	0.0	0.0	0.0
85°	160.1	33.1	11.0	8.3	5.5	2.8	0.0	0.0	0.0	0.0	0.0
87.5°	82.8	11.0	8.3	5.5	5.5	2.8	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)