

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: P483873

Luminaire Tested: **IFLD-M-SA4D-722-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483873
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-722-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

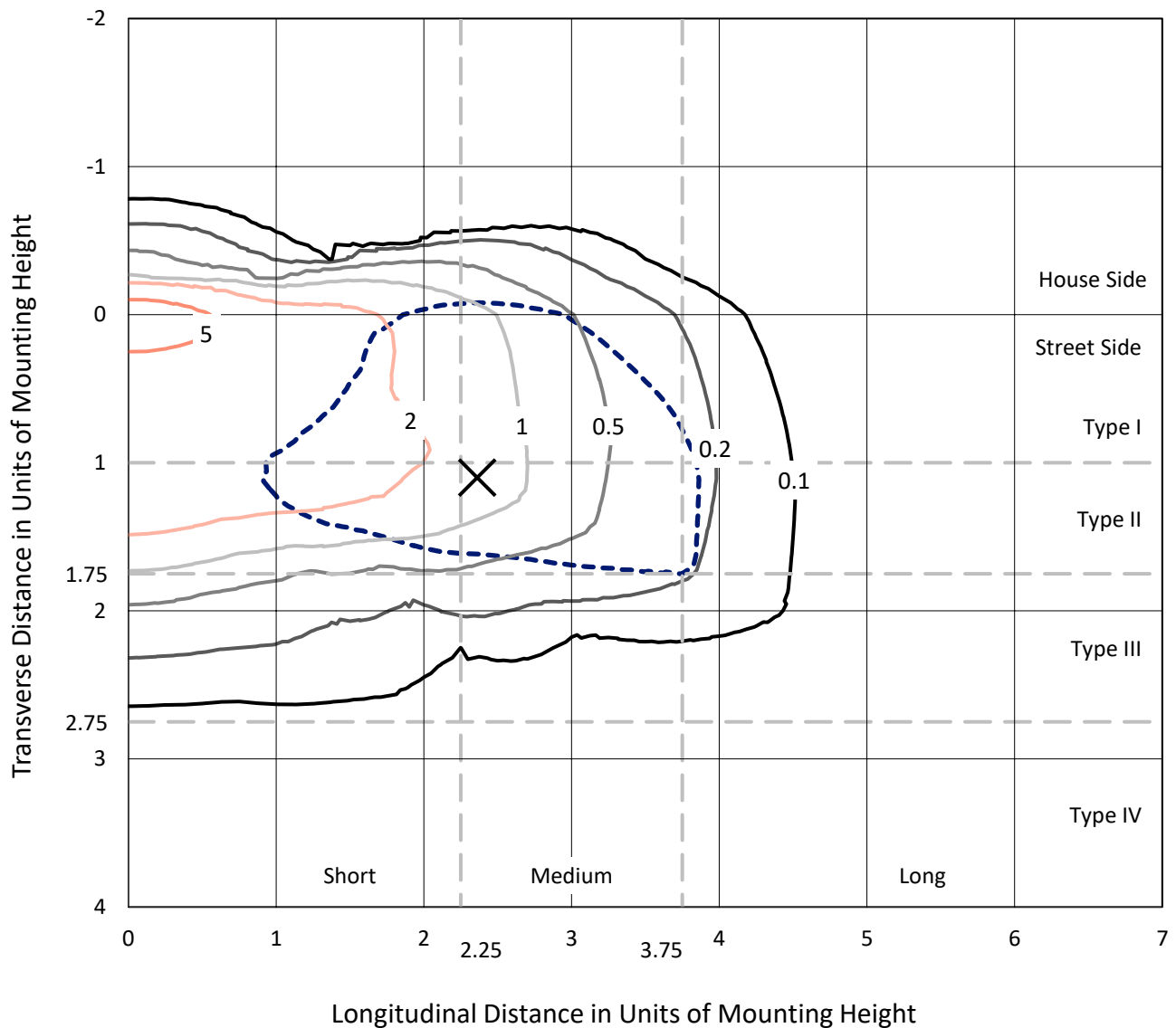
Lumens per Lamp: N/A
Luminaire Lumens: 18966.2 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

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

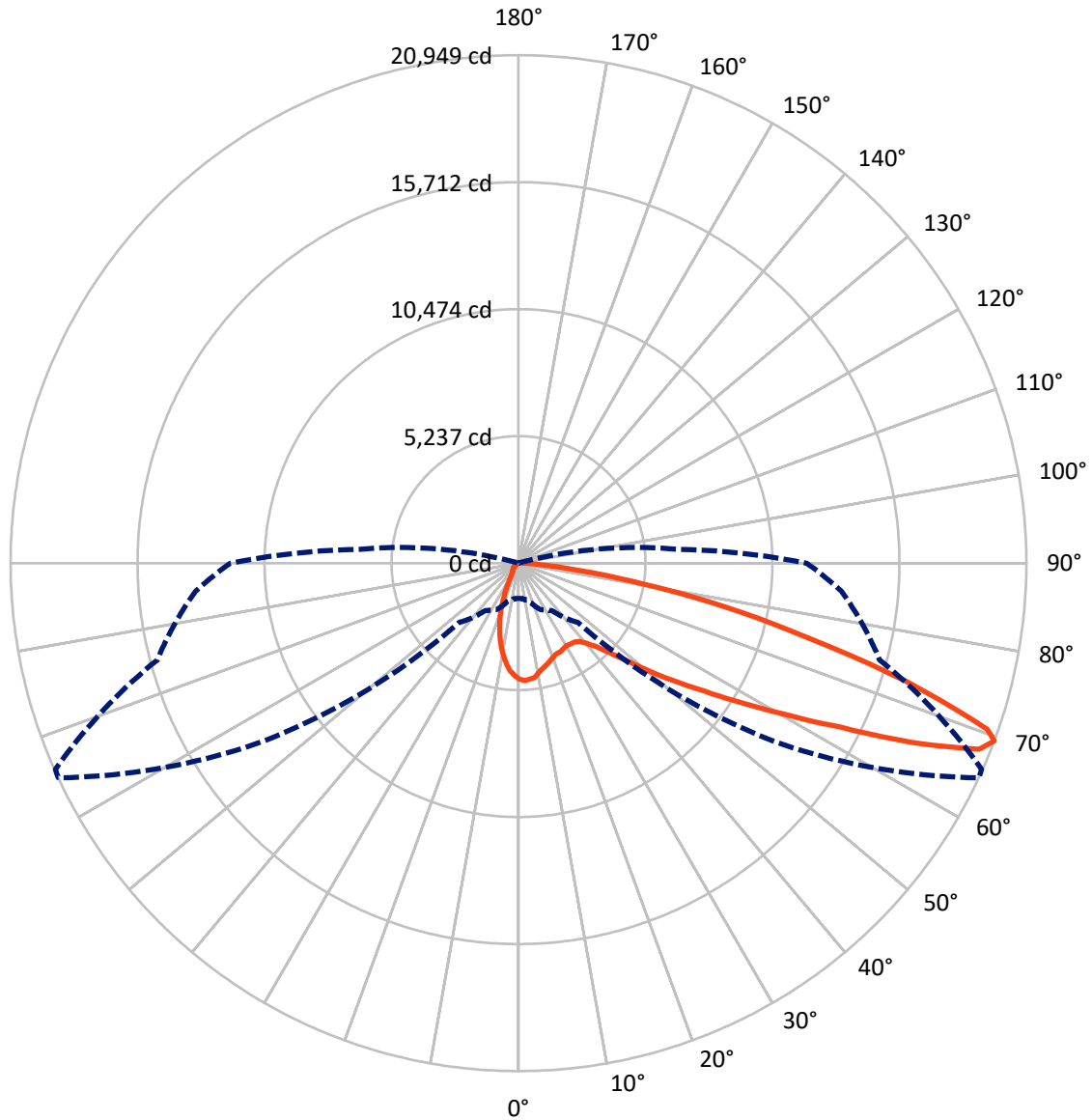
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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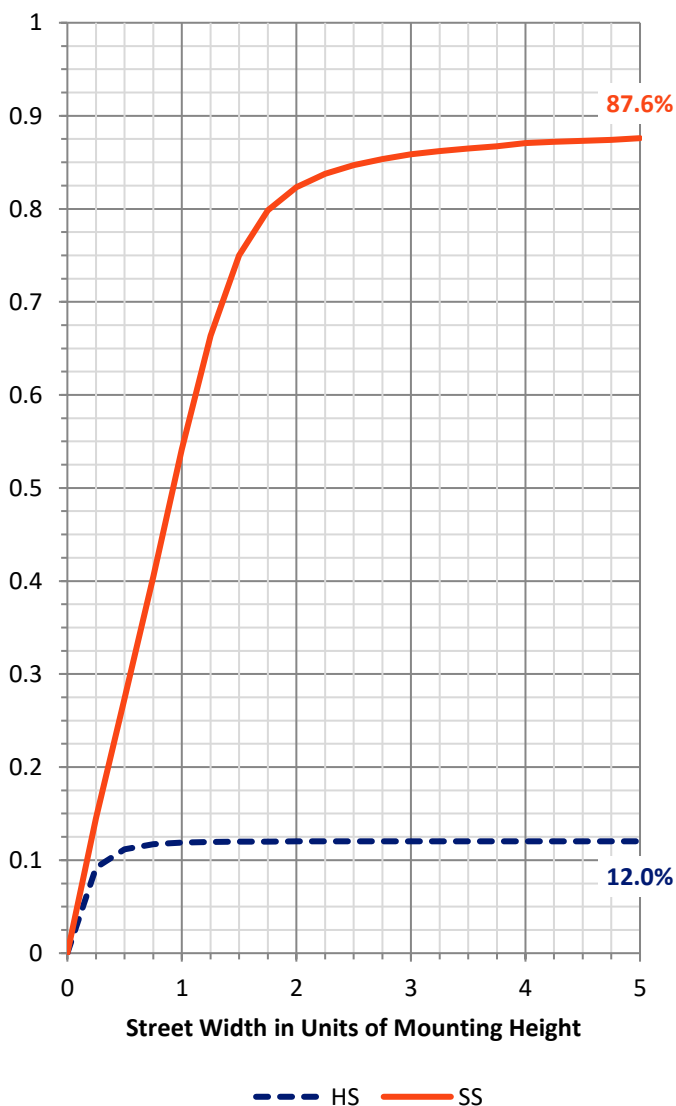
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2300.7	0.0	2300.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	16665.5	0.0	16665.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	18966.2	0.0	18966.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.3	2.1
10°-20°	856.2	4.5
20°-30°	1192.0	6.3
30°-40°	1689.2	8.9
40°-50°	2662.1	14.0
50°-60°	4319.6	22.8
60°-70°	4824.1	25.4
70°-80°	2716.5	14.3
80°-90°	315.2	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°	18966.2	100.0
0°-180°	18966.2	100.0

Coefficient of Utilization



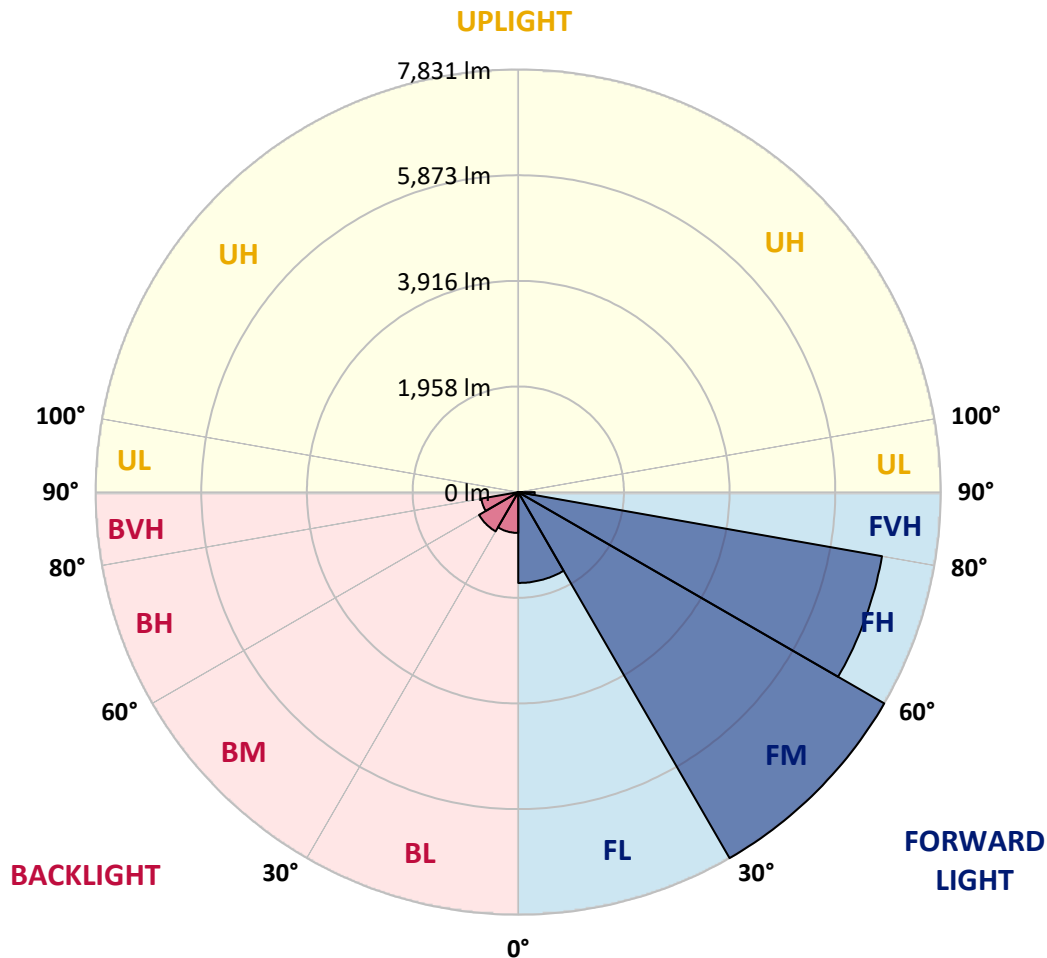
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1683.1	8.9			
FM (30°-60°)	7831.3	41.3			
FH (60°-80°)	6844.6	36.1			G3/7500
FVH (80°-90°)	306.5	1.6			G3/500
BL (0°-30°)	756.4	4.0	B2/1000		
BM (30°-60°)	839.5	4.4	B1/1000		
BH (60°-80°)	696.1	3.7	B2/1000		G2/1000
BVH (80°-90°)	8.7	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°	4781.8	4781.8	4781.8	4781.8	4781.8	4781.8	4781.8	4781.8	4781.8	4781.8	4781.8
2.5°	4605.3	4641.1	4651.3	4687.2	4705.1	4781.8	4825.3	4850.9	4838.1	4866.3	4868.8
5°	4277.8	4257.3	4311.1	4349.4	4431.3	4564.3	4699.9	4804.8	4853.5	4899.5	4891.8
7.5°	3927.3	3917.1	3970.8	4057.8	4132.0	4293.1	4510.6	4769.0	4758.8	4871.4	4904.6
10°	3686.8	3697.0	3714.9	3801.9	3911.9	4075.7	4346.9	4587.4	4641.1	4879.0	4945.6
12.5°	3466.8	3484.7	3517.9	3607.5	3735.4	3904.3	4167.8	4449.2	4531.1	4835.5	4968.6
15°	3395.1	3354.2	3420.7	3487.2	3620.3	3771.2	3993.8	4344.3	4380.1	4784.4	5007.0
17.5°	3336.3	3310.7	3341.4	3395.1	3535.8	3658.6	3868.4	4231.7	4298.3	4763.9	5001.9
20°	3354.2	3331.2	3343.9	3384.9	3448.8	3564.0	3758.4	4124.3	4195.9	4669.2	4994.2
22.5°	3405.4	3423.3	3400.2	3410.5	3430.9	3489.8	3699.6	4047.5	4108.9	4651.3	5037.7
25°	3635.6	3604.9	3574.2	3561.4	3441.2	3466.8	3681.7	4042.4	4085.9	4587.4	5001.9
27.5°	3876.1	3850.5	3837.7	3763.5	3599.8	3523.0	3684.2	3970.8	4029.6	4561.8	4958.4
30°	4167.8	4201.0	4149.9	4060.3	3832.6	3643.3	3712.4	3935.0	4016.8	4464.6	4930.2
32.5°	4474.8	4492.7	4518.3	4451.8	4157.5	3824.9	3796.8	3968.2	3973.3	4464.6	4866.3
35°	4822.8	4797.2	4863.7	4868.8	4610.4	4147.3	3958.0	3991.2	4045.0	4444.1	4843.2
37.5°	5122.1	5165.6	5242.3	5365.2	5099.1	4602.7	4208.7	4098.7	4121.7	4538.8	4861.1
40°	5449.6	5493.1	5667.1	5789.9	5638.9	5114.4	4589.9	4349.4	4367.3	4679.5	4953.2
42.5°	5810.3	5894.8	6102.0	6316.9	6276.0	5764.3	5081.2	4717.9	4710.2	5030.0	5142.6
45°	6299.0	6411.6	6636.7	6884.9	6920.7	6508.8	5736.1	5267.9	5293.5	5488.0	5534.0
47.5°	6979.6	6974.4	7194.5	7470.8	7678.0	7281.5	6519.0	6007.3	6004.8	6212.0	6114.8
50°	7637.1	7639.7	7698.5	8018.3	8555.6	8353.5	7488.7	6989.8	6961.7	7064.0	6907.9
52.5°	7941.6	7905.7	7862.2	8248.6	9231.0	9704.4	8716.8	8102.7	8079.7	8018.3	7977.4
55°	7621.7	7634.5	7632.0	8033.7	9586.7	11129.4	10292.8	9328.3	9289.9	9098.0	9154.3
57.5°	6595.8	6554.9	6644.4	7271.2	9179.9	12101.7	12546.8	10873.6	10773.8	10136.7	10008.8
60°	4909.7	4922.5	4996.7	5736.1	8169.3	12306.3	14703.7	12687.6	12257.7	10868.5	10691.9
62.5°	3428.4	3402.8	3430.9	3845.4	5841.0	11487.6	16162.0	14893.0	14478.5	11700.0	11597.6
65°	2453.6	2420.3	2532.9	2786.2	3507.7	8783.3	16369.2	17830.1	17459.1	13027.8	12782.2
67.5°	1765.4	1760.2	1890.7	2351.3	2492.0	5058.1	14834.1	20491.0	20265.8	14603.9	13503.7
69°	1460.9	1463.5	1588.8	2105.6	2379.4	3454.0	12764.3	20948.9	20908.0	15417.5	13368.1
70°	1274.1	1284.4	1430.2	1959.8	2333.3	2839.9	11004.1	20498.6	20457.7	15576.1	12920.4
72.5°	785.5	793.1	985.0	1570.9	2218.2	2318.0	6580.4	16770.9	16911.6	14849.5	11132.0
75°	376.1	378.7	516.8	1136.0	2138.9	2197.7	3525.6	12375.4	12672.2	11989.1	8698.9
77.5°	199.6	199.6	248.2	603.8	1732.1	2067.3	2092.8	8729.6	8975.2	7580.8	4945.6
80°	99.8	102.3	151.0	314.7	1074.6	2026.3	1634.9	5206.5	5339.6	3093.2	1540.2
82.5°	38.4	40.9	71.6	189.3	557.8	1711.6	1435.3	2561.1	2527.8	724.1	376.1
85°	5.1	5.1	25.6	112.6	237.9	754.8	1184.6	1069.4	1033.6	158.6	181.7
87.5°	0.0	0.0	5.1	33.3	71.6	220.0	458.0	294.2	327.5	43.5	89.5
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°	4781.8	4781.8	4781.8	4781.8	4781.8	4781.8	4781.8	4781.8	4781.8	4781.8	4781.8
2.5°	4856.0	4802.3	4720.4	4641.1	4556.7	4454.3	4341.8	4300.8	4229.2	4224.1	4265.0
5°	4850.9	4763.9	4620.6	4451.8	4211.3	4029.6	3832.6	3689.3	3579.3	3507.7	3525.6
7.5°	4876.5	4771.6	4523.4	4160.1	3850.5	3489.8	3185.3	2975.5	2783.6	2689.0	2678.7
10°	4835.5	4694.8	4331.5	3822.4	3367.0	2863.0	2417.8	2136.3	1849.8	1744.9	1750.0
12.5°	4858.6	4661.6	4124.3	3474.4	2847.6	2192.6	1660.5	1276.7	1008.0	921.1	910.8
15°	4873.9	4589.9	3924.7	3057.4	2271.9	1494.2	962.0	724.1	639.6	624.3	621.7
17.5°	4815.1	4502.9	3643.3	2645.5	1683.5	908.3	639.6	591.0	575.7	565.4	560.3
20°	4812.5	4451.8	3400.2	2223.3	1123.2	619.2	552.6	534.7	511.7	504.0	504.0
22.5°	4769.0	4344.3	3108.6	1760.2	716.4	532.2	496.3	468.2	442.6	432.4	429.8
25°	4756.2	4219.0	2834.8	1322.7	545.0	475.9	440.1	399.1	368.4	353.1	345.4
27.5°	4720.4	4111.5	2558.5	931.3	475.9	424.7	378.7	335.2	299.3	276.3	273.8
30°	4592.5	3998.9	2251.5	644.7	432.4	376.1	324.9	273.8	237.9	222.6	217.5
32.5°	4538.8	3894.0	1916.3	496.3	394.0	332.6	273.8	227.7	199.6	184.2	181.7
35°	4474.8	3740.5	1591.4	432.4	358.2	289.1	230.3	191.9	168.9	156.1	156.1
37.5°	4482.5	3617.7	1286.9	391.4	319.8	248.2	197.0	163.7	143.3	130.5	130.5
40°	4459.5	3520.5	1000.4	355.6	284.0	212.4	166.3	138.2	120.2	107.5	104.9
42.5°	4564.3	3494.9	754.8	324.9	248.2	181.7	143.3	117.7	99.8	84.4	84.4
45°	4740.9	3535.8	588.5	296.8	212.4	156.1	122.8	97.2	79.3	69.1	66.5
47.5°	5211.6	3697.0	460.5	273.8	181.7	135.6	102.3	79.3	64.0	53.7	51.2
50°	5894.8	4057.8	391.4	240.5	153.5	115.1	84.4	61.4	51.2	40.9	38.4
52.5°	6867.0	4664.1	355.6	212.4	127.9	94.7	66.5	48.6	38.4	30.7	28.1
55°	7926.2	5421.4	322.4	179.1	107.5	76.8	53.7	38.4	28.1	20.5	17.9
57.5°	8752.6	6076.4	294.2	148.4	87.0	61.4	40.9	28.1	20.5	12.8	10.2
60°	9655.7	6536.9	258.4	117.7	71.6	46.1	30.7	20.5	15.4	7.7	7.7
62.5°	10587.0	7076.8	212.4	92.1	56.3	35.8	23.0	15.4	10.2	2.6	2.6
65°	11881.6	7498.9	163.7	71.6	43.5	25.6	17.9	12.8	5.1	0.0	0.0
67.5°	12247.5	7291.7	120.2	56.3	30.7	17.9	12.8	7.7	2.6	0.0	0.0
69°	11881.6	6567.6	104.9	48.6	25.6	15.4	10.2	5.1	2.6	0.0	0.0
70°	11213.9	6004.8	92.1	40.9	23.0	15.4	7.7	5.1	2.6	0.0	0.0
72.5°	9379.4	4605.3	71.6	30.7	17.9	12.8	7.7	5.1	0.0	0.0	0.0
75°	6879.8	2845.0	53.7	23.0	15.4	10.2	7.7	5.1	0.0	0.0	0.0
77.5°	3686.8	1038.7	38.4	15.4	10.2	7.7	7.7	5.1	0.0	0.0	0.0
80°	1010.6	307.0	28.1	10.2	7.7	5.1	5.1	2.6	0.0	0.0	0.0
82.5°	276.3	79.3	17.9	10.2	7.7	5.1	2.6	0.0	0.0	0.0	0.0
85°	148.4	30.7	10.2	7.7	5.1	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	76.8	10.2	7.7	5.1	5.1	2.6	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)