

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: P483872

Luminaire Tested: **IFLD-M-SA4C-722-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483872
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-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

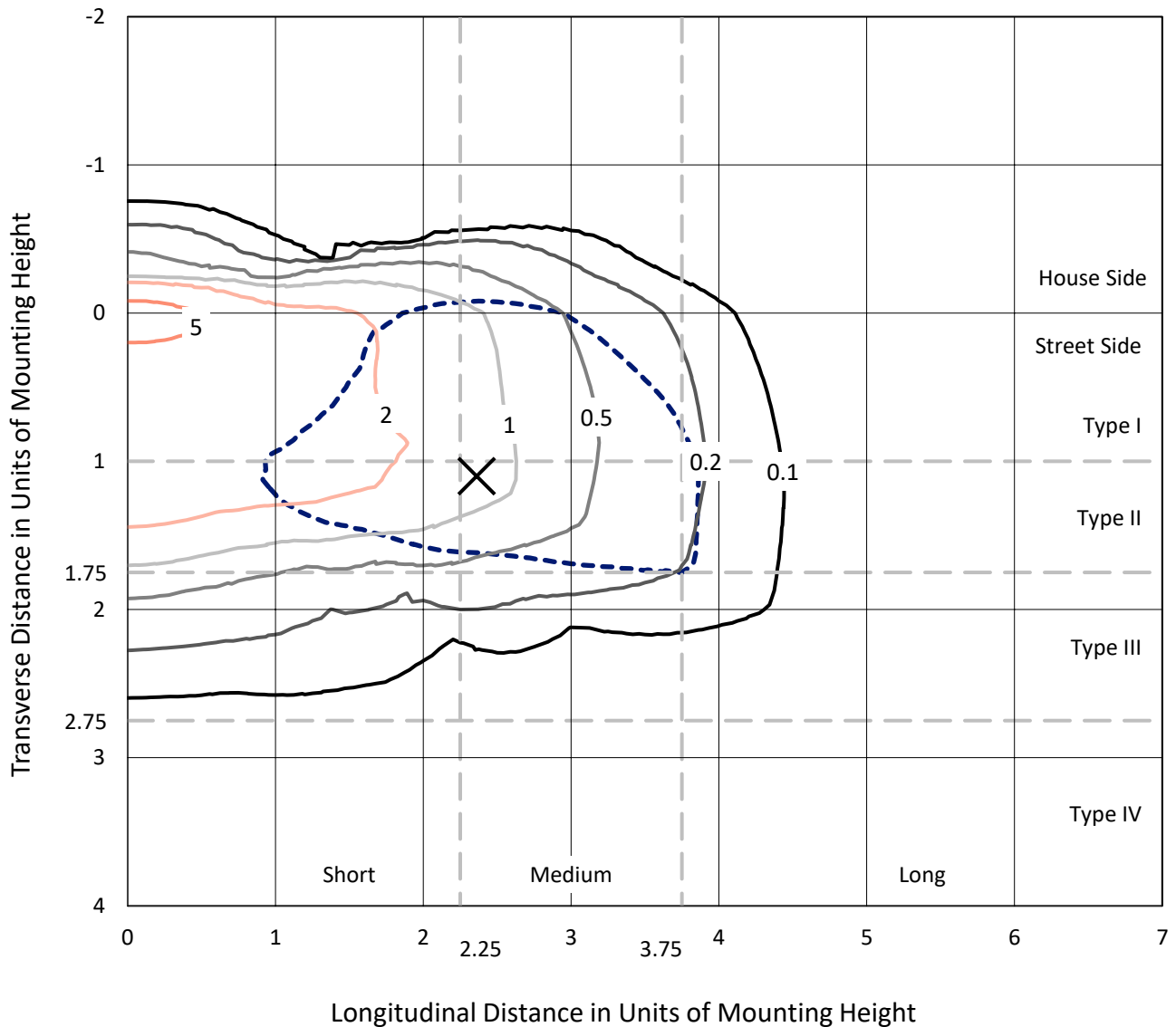
Lumens per Lamp: N/A
Luminaire Lumens: 17237 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 218.1
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

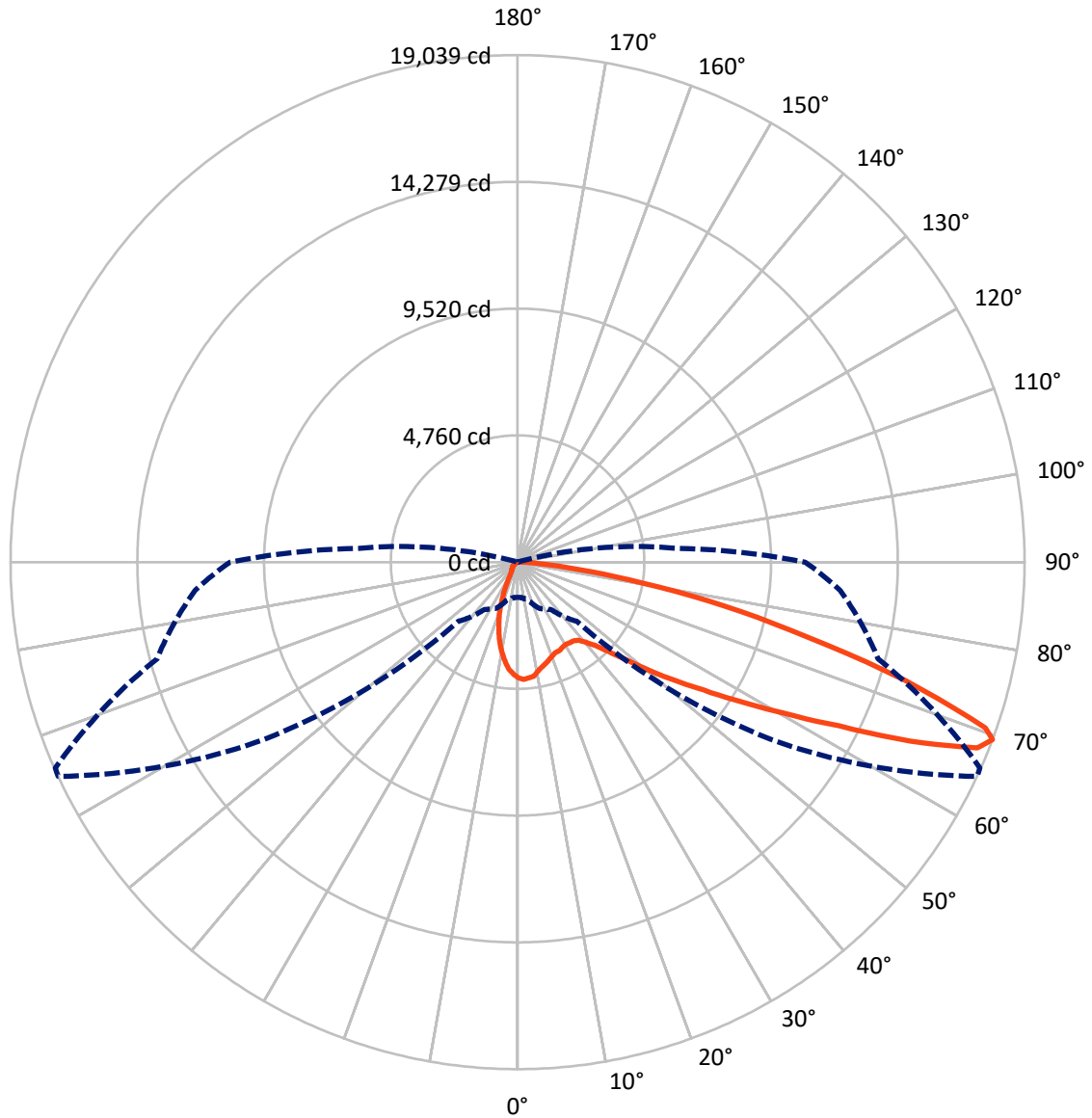
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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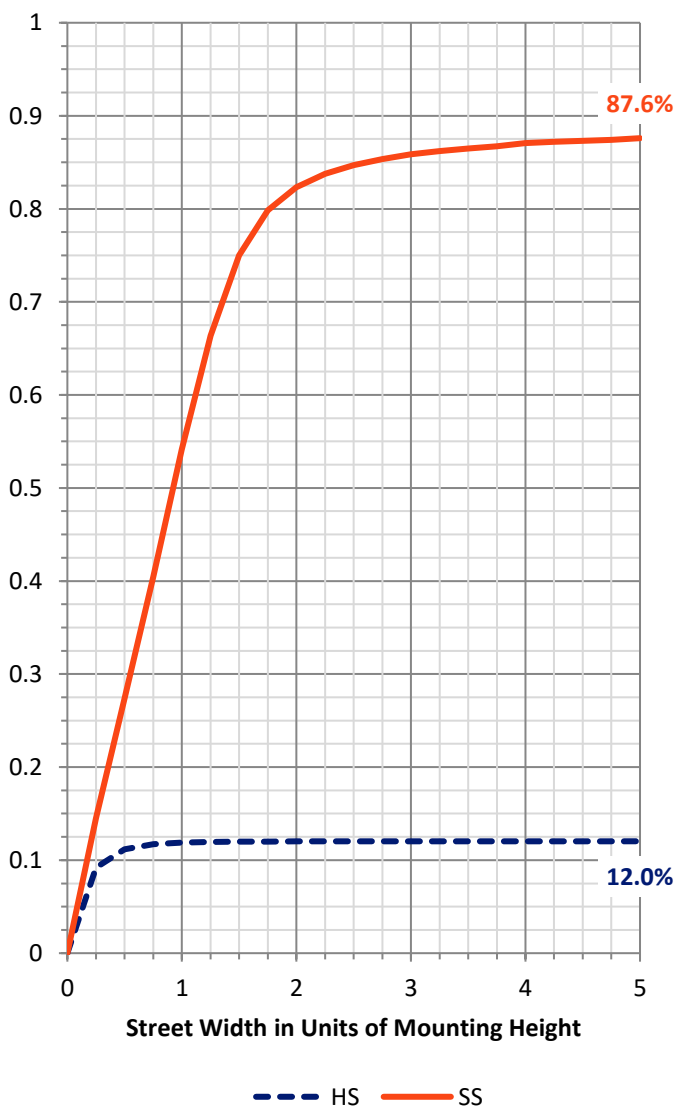
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2091.0	0.0	2091.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	15146.1	0.0	15146.1
	% Fixture	87.9	0.0	87.9
Total	Lumens	17237.0	0.0	17237.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.6	2.1
10°-20°	778.1	4.5
20°-30°	1083.3	6.3
30°-40°	1535.2	8.9
40°-50°	2419.4	14.0
50°-60°	3925.8	22.8
60°-70°	4384.3	25.4
70°-80°	2468.9	14.3
80°-90°	286.5	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°	17237.0	100.0
0°-180°	17237.0	100.0

Coefficient of Utilization

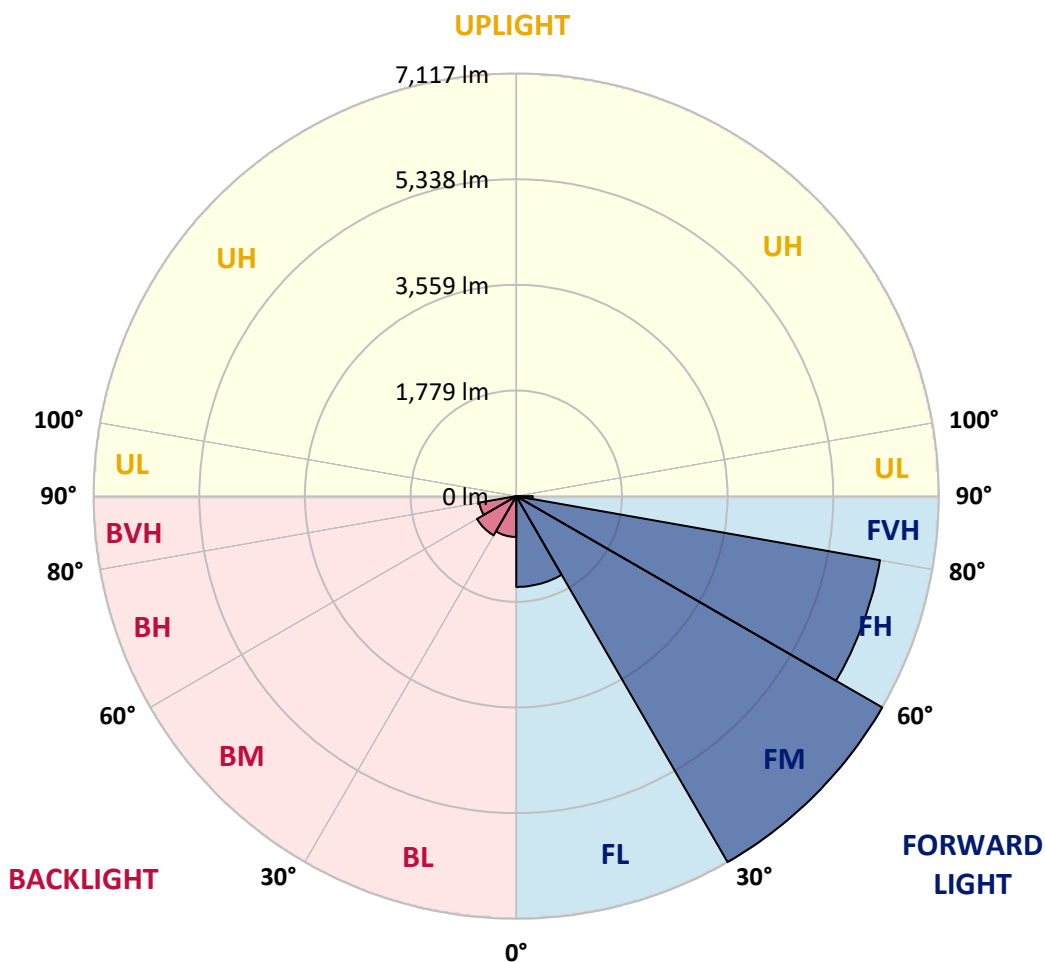


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1529.6	8.9			
FM (30°-60°)	7117.3	41.3			
FH (60°-80°)	6220.5	36.1			G3/7500
FVH (80°-90°)	278.6	1.6			G3/500
BL (0°-30°)	687.4	4.0	B2/1000		
BM (30°-60°)	763.0	4.4	B1/1000		
BH (60°-80°)	632.6	3.7	B2/1000		G2/1000
BVH (80°-90°)	7.9	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-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8
2.5°	4185.4	4218.0	4227.3	4259.8	4276.1	4345.8	4385.4	4408.6	4397.0	4422.6	4424.9
5°	3887.8	3869.2	3918.0	3952.9	4027.3	4148.2	4271.4	4366.8	4411.0	4452.8	4445.8
7.5°	3569.2	3559.9	3608.8	3687.8	3755.2	3901.7	4099.4	4334.2	4324.9	4427.2	4457.5
10°	3350.7	3360.0	3376.2	3455.3	3555.3	3704.1	3950.6	4169.1	4218.0	4434.2	4494.7
12.5°	3150.7	3167.0	3197.2	3278.6	3394.8	3548.3	3787.8	4043.6	4118.0	4394.7	4515.6
15°	3085.6	3048.4	3108.8	3169.3	3290.2	3427.4	3629.7	3948.2	3980.8	4348.2	4550.5
17.5°	3032.1	3008.8	3036.7	3085.6	3213.5	3325.1	3515.7	3845.9	3906.4	4329.6	4545.8
20°	3048.4	3027.4	3039.1	3076.3	3134.4	3239.0	3415.8	3748.3	3813.4	4243.5	4538.8
22.5°	3094.9	3111.2	3090.2	3099.5	3118.1	3171.6	3362.3	3678.5	3734.3	4227.3	4578.4
25°	3304.1	3276.2	3248.3	3236.7	3127.4	3150.7	3346.0	3673.9	3713.4	4169.1	4545.8
27.5°	3522.7	3499.5	3487.8	3420.4	3271.6	3201.8	3348.3	3608.8	3662.2	4145.9	4506.3
30°	3787.8	3818.0	3771.5	3690.1	3483.2	3311.1	3373.9	3576.2	3650.6	4057.5	4480.7
32.5°	4066.8	4083.1	4106.4	4045.9	3778.5	3476.2	3450.6	3606.4	3611.1	4057.5	4422.6
35°	4383.1	4359.8	4420.3	4424.9	4190.1	3769.2	3597.1	3627.4	3676.2	4038.9	4401.7
37.5°	4655.1	4694.6	4764.4	4876.0	4634.2	4183.1	3825.0	3725.0	3745.9	4125.0	4417.9
40°	4952.7	4992.3	5150.4	5262.0	5124.8	4648.1	4171.5	3952.9	3969.2	4252.8	4501.6
42.5°	5280.6	5357.3	5545.7	5741.0	5703.8	5238.7	4617.9	4287.7	4280.7	4571.4	4673.7
45°	5724.7	5827.0	6031.6	6257.2	6289.7	5915.4	5213.2	4787.6	4810.9	4987.6	5029.5
47.5°	6343.2	6338.6	6538.5	6789.7	6978.0	6617.6	5924.7	5459.6	5457.3	5645.7	5557.3
50°	6940.8	6943.1	6996.6	7287.3	7775.6	7591.9	6805.9	6352.5	6326.9	6420.0	6278.1
52.5°	7217.5	7185.0	7145.4	7496.5	8389.4	8819.6	7922.0	7364.0	7343.1	7287.3	7250.1
55°	6926.9	6938.5	6936.2	7301.2	8712.6	10114.7	9354.4	8477.8	8442.9	8268.5	8319.7
57.5°	5994.4	5957.2	6038.6	6608.3	8342.9	10998.3	11402.9	9882.2	9791.5	9212.5	9096.3
60°	4462.1	4473.7	4541.2	5213.2	7424.4	11184.3	13363.1	11530.8	11140.2	9877.6	9717.1
62.5°	3115.8	3092.6	3118.1	3494.8	5308.5	10440.3	14688.5	13535.1	13158.5	10633.3	10540.3
65°	2229.9	2199.7	2302.0	2532.2	3187.9	7982.5	14876.8	16204.5	15867.3	11840.1	11616.8
67.5°	1604.4	1599.8	1718.3	2136.9	2264.8	4597.0	13481.7	18622.7	18418.1	13272.4	12272.5
69°	1327.7	1330.0	1444.0	1913.7	2162.5	3139.1	11600.6	19039.0	19001.8	14011.8	12149.3
70°	1158.0	1167.3	1299.8	1781.1	2120.6	2581.0	10000.8	18629.7	18592.5	14156.0	11742.4
72.5°	713.8	720.8	895.2	1427.7	2016.0	2106.7	5980.5	15241.9	15369.7	13495.6	10117.1
75°	341.8	344.1	469.7	1032.4	1943.9	1997.4	3204.2	11247.1	11516.8	10896.0	7905.8
77.5°	181.4	181.4	225.5	548.8	1574.2	1878.8	1902.0	7933.7	8156.9	6889.6	4494.7
80°	90.7	93.0	137.2	286.0	976.6	1841.6	1485.8	4731.8	4852.7	2811.2	1399.8
82.5°	34.9	37.2	65.1	172.1	506.9	1555.6	1304.5	2327.6	2297.3	658.0	341.8
85°	4.7	4.7	23.3	102.3	216.2	685.9	1076.6	971.9	939.4	144.2	165.1
87.5°	0.0	0.0	4.7	30.2	65.1	200.0	416.2	267.4	297.6	39.5	81.4
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°	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8
2.5°	4413.3	4364.5	4290.0	4218.0	4141.2	4048.2	3945.9	3908.7	3843.6	3838.9	3876.2
5°	4408.6	4329.6	4199.4	4045.9	3827.3	3662.2	3483.2	3353.0	3253.0	3187.9	3204.2
7.5°	4431.9	4336.5	4111.0	3780.8	3499.5	3171.6	2894.9	2704.2	2529.8	2443.8	2434.5
10°	4394.7	4266.8	3936.6	3473.9	3060.0	2601.9	2197.3	1941.6	1681.1	1585.8	1590.5
12.5°	4415.6	4236.6	3748.3	3157.7	2588.0	1992.7	1509.1	1160.3	916.1	837.1	827.8
15°	4429.6	4171.5	3566.9	2778.6	2064.8	1357.9	874.3	658.0	581.3	567.4	565.0
17.5°	4376.1	4092.4	3311.1	2404.3	1530.0	825.5	581.3	537.1	523.2	513.9	509.2
20°	4373.8	4045.9	3090.2	2020.6	1020.8	562.7	502.2	486.0	465.0	458.1	458.1
22.5°	4334.2	3948.2	2825.2	1599.8	651.1	483.6	451.1	425.5	402.3	393.0	390.6
25°	4322.6	3834.3	2576.4	1202.1	495.3	432.5	399.9	362.7	334.8	320.9	313.9
27.5°	4290.0	3736.6	2325.2	846.4	432.5	386.0	344.1	304.6	272.1	251.1	248.8
30°	4173.8	3634.3	2046.2	586.0	393.0	341.8	295.3	248.8	216.2	202.3	197.6
32.5°	4125.0	3539.0	1741.6	451.1	358.1	302.3	248.8	206.9	181.4	167.4	165.1
35°	4066.8	3399.5	1446.3	393.0	325.5	262.8	209.3	174.4	153.5	141.8	141.8
37.5°	4073.8	3287.9	1169.6	355.8	290.7	225.5	179.0	148.8	130.2	118.6	118.6
40°	4052.9	3199.5	909.2	323.2	258.1	193.0	151.1	125.6	109.3	97.7	95.3
42.5°	4148.2	3176.3	685.9	295.3	225.5	165.1	130.2	107.0	90.7	76.7	76.7
45°	4308.6	3213.5	534.8	269.7	193.0	141.8	111.6	88.4	72.1	62.8	60.5
47.5°	4736.5	3360.0	418.5	248.8	165.1	123.2	93.0	72.1	58.1	48.8	46.5
50°	5357.3	3687.8	355.8	218.6	139.5	104.6	76.7	55.8	46.5	37.2	34.9
52.5°	6240.9	4238.9	323.2	193.0	116.3	86.0	60.5	44.2	34.9	27.9	25.6
55°	7203.6	4927.2	293.0	162.8	97.7	69.8	48.8	34.9	25.6	18.6	16.3
57.5°	7954.6	5522.4	267.4	134.9	79.1	55.8	37.2	25.6	18.6	11.6	9.3
60°	8775.4	5941.0	234.8	107.0	65.1	41.9	27.9	18.6	14.0	7.0	7.0
62.5°	9621.8	6431.6	193.0	83.7	51.2	32.6	20.9	14.0	9.3	2.3	2.3
65°	10798.4	6815.2	148.8	65.1	39.5	23.3	16.3	11.6	4.7	0.0	0.0
67.5°	11130.9	6626.9	109.3	51.2	27.9	16.3	11.6	7.0	2.3	0.0	0.0
69°	10798.4	5968.9	95.3	44.2	23.3	14.0	9.3	4.7	2.3	0.0	0.0
70°	10191.5	5457.3	83.7	37.2	20.9	14.0	7.0	4.7	2.3	0.0	0.0
72.5°	8524.3	4185.4	65.1	27.9	16.3	11.6	7.0	4.7	0.0	0.0	0.0
75°	6252.5	2585.7	48.8	20.9	14.0	9.3	7.0	4.7	0.0	0.0	0.0
77.5°	3350.7	944.0	34.9	14.0	9.3	7.0	7.0	4.7	0.0	0.0	0.0
80°	918.5	279.0	25.6	9.3	7.0	4.7	4.7	2.3	0.0	0.0	0.0
82.5°	251.1	72.1	16.3	9.3	7.0	4.7	2.3	0.0	0.0	0.0	0.0
85°	134.9	27.9	9.3	7.0	4.7	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	69.8	9.3	7.0	4.7	4.7	2.3	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)