

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: P483989

Luminaire Tested: **IFLD-M-SA4C-735-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483989
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-735-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

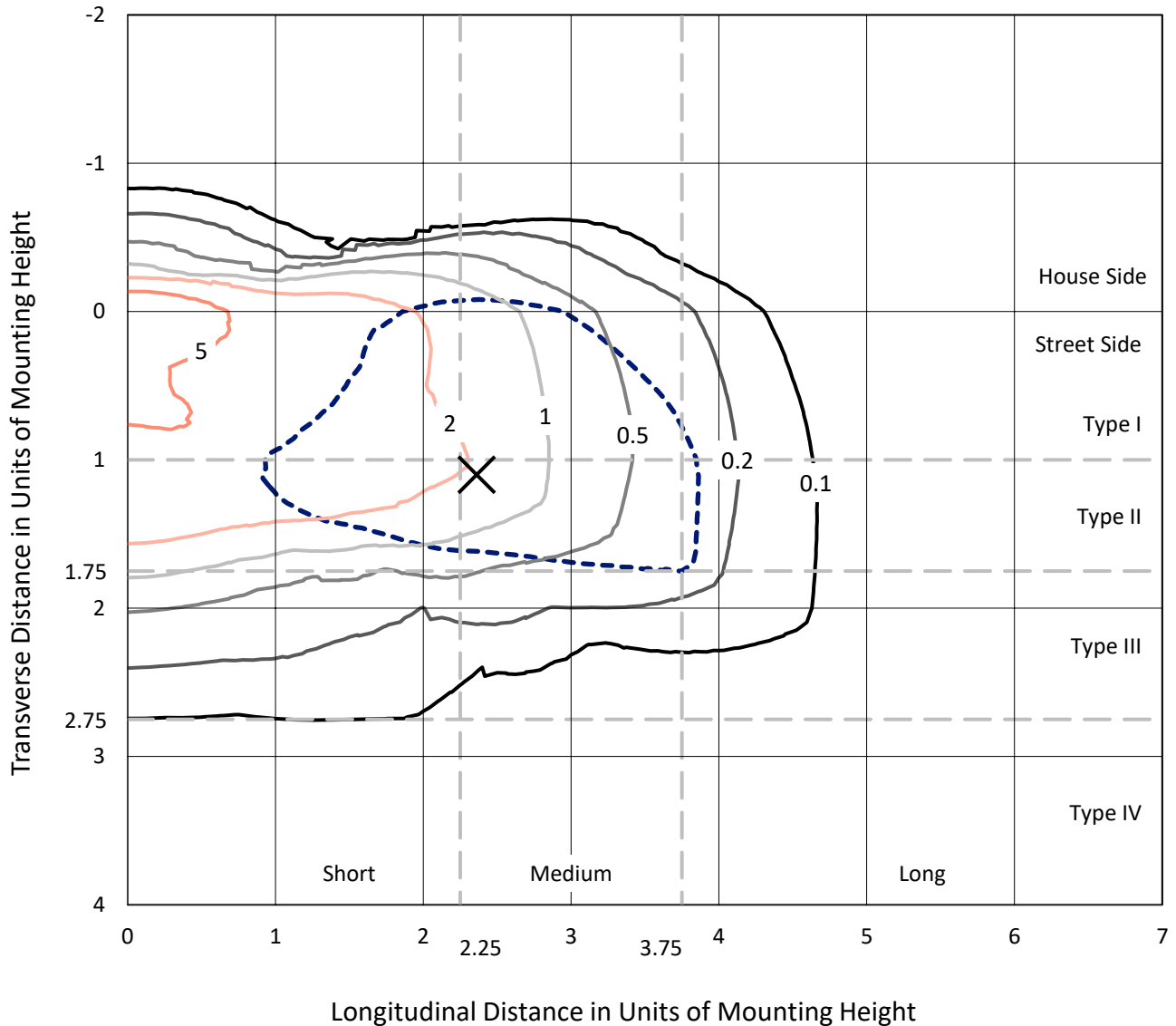
Lumens per Lamp: N/A
Luminaire Lumens: 23080.2 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

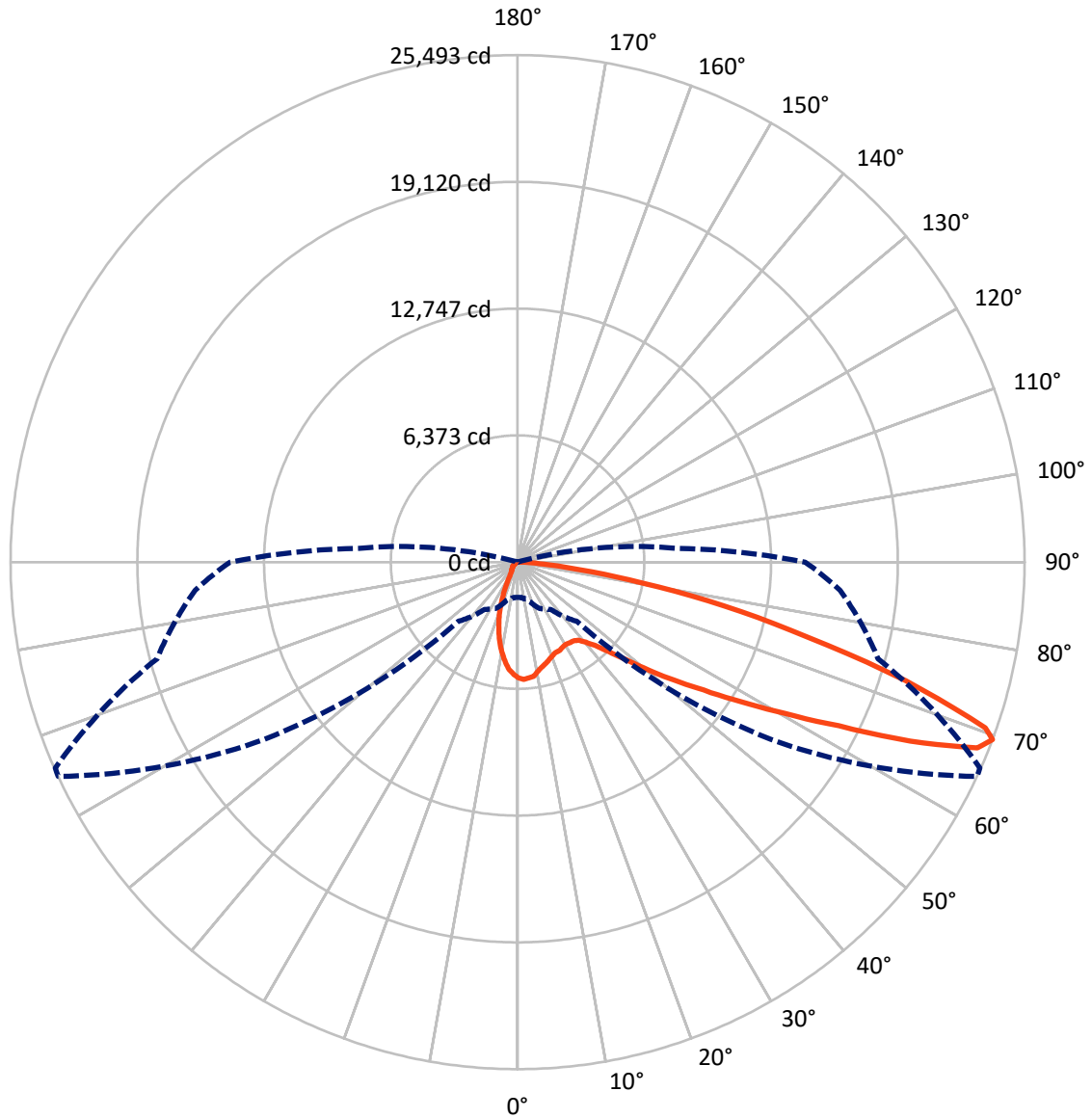
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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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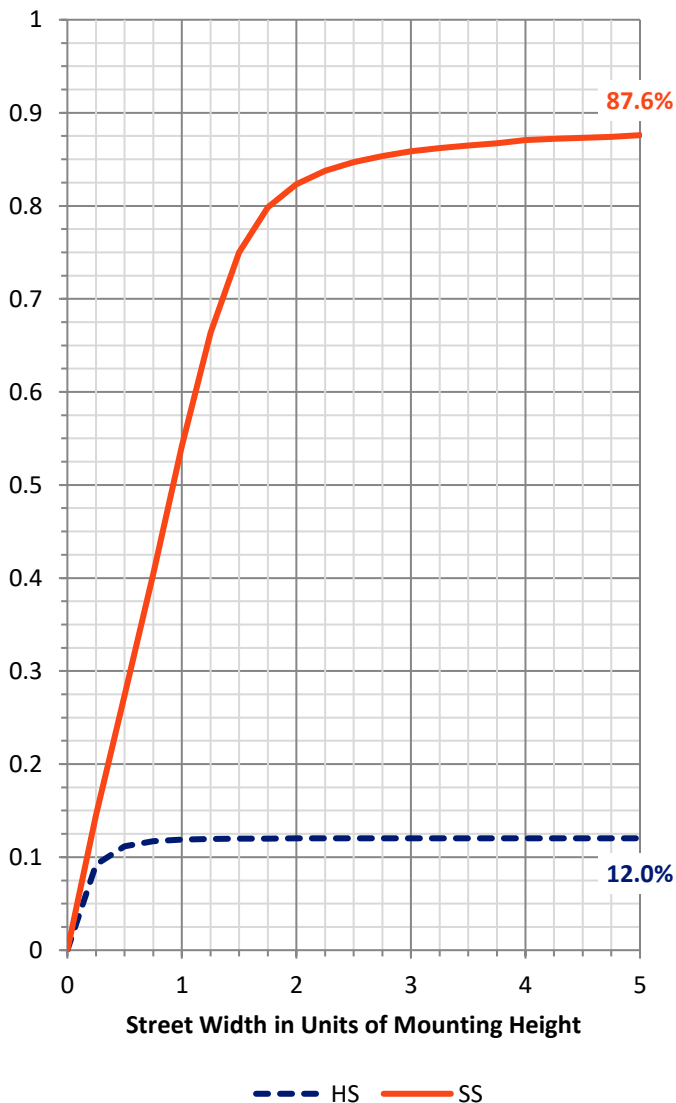
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2799.8	0.0	2799.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	20280.4	0.0	20280.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	23080.2	0.0	23080.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.2	2.1
10°-20°	1041.9	4.5
20°-30°	1450.6	6.3
30°-40°	2055.6	8.9
40°-50°	3239.5	14.0
50°-60°	5256.6	22.8
60°-70°	5870.5	25.4
70°-80°	3305.8	14.3
80°-90°	383.6	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°	23080.2	100.0
0°-180°	23080.2	100.0

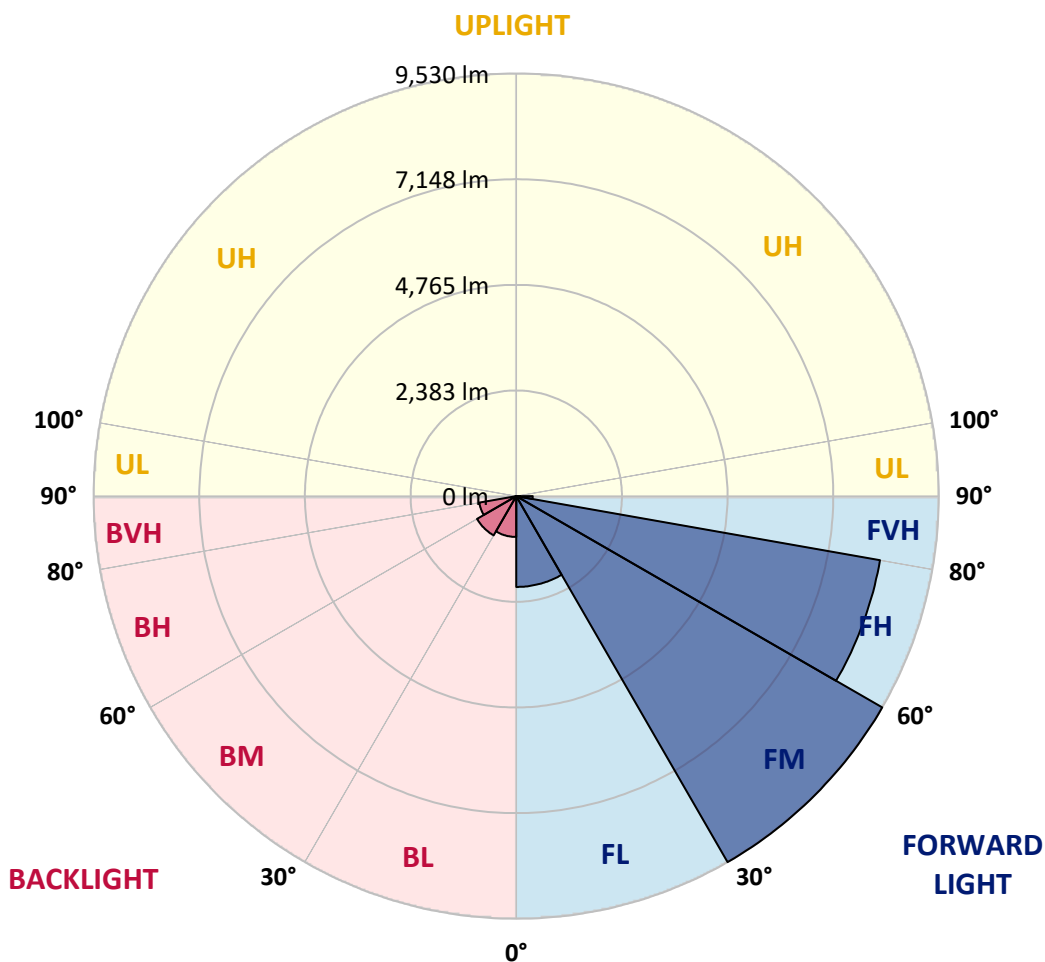


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2048.1	8.9			
FM (30°-60°)	9530.0	41.3			
FH (60°-80°)	8329.2	36.1			G4/12000
FVH (80°-90°)	373.0	1.6			G3/500
BL (0°-30°)	920.5	4.0	B2/1000		
BM (30°-60°)	1021.6	4.4	B2/2500		
BH (60°-80°)	847.1	3.7	B2/1000		G2/1000
BVH (80°-90°)	10.6	0.0			G1/100
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°	5819.0	5819.0	5819.0	5819.0	5819.0	5819.0	5819.0	5819.0	5819.0	5819.0	5819.0
2.5°	5604.2	5647.8	5660.3	5703.8	5725.6	5819.0	5872.0	5903.1	5887.5	5921.8	5924.9
5°	5205.7	5180.8	5246.2	5292.9	5392.5	5554.4	5719.4	5847.1	5906.2	5962.3	5952.9
7.5°	4779.2	4766.7	4832.1	4937.9	5028.2	5224.4	5489.0	5803.5	5791.0	5928.0	5968.5
10°	4486.5	4498.9	4520.7	4626.6	4760.5	4959.7	5289.8	5582.4	5647.8	5937.4	6018.3
12.5°	4218.7	4240.5	4281.0	4390.0	4545.6	4751.1	5071.8	5414.3	5513.9	5884.4	6046.3
15°	4131.6	4081.7	4162.7	4243.6	4405.5	4589.2	4860.1	5286.6	5330.2	5822.2	6093.0
17.5°	4059.9	4028.8	4066.2	4131.6	4302.8	4452.2	4707.5	5149.7	5230.6	5797.3	6086.8
20°	4081.7	4053.7	4069.3	4119.1	4196.9	4337.0	4573.7	5018.9	5106.1	5682.1	6077.5
22.5°	4144.0	4165.8	4137.8	4150.2	4175.1	4246.8	4502.1	4925.5	5000.2	5660.3	6130.4
25°	4424.2	4386.9	4349.5	4333.9	4187.6	4218.7	4480.3	4919.3	4972.2	5582.4	6086.8
27.5°	4716.9	4685.8	4670.2	4579.9	4380.6	4287.2	4483.4	4832.1	4903.7	5551.3	6033.9
30°	5071.8	5112.3	5050.0	4941.1	4664.0	4433.6	4517.6	4788.5	4888.1	5433.0	5999.6
32.5°	5445.4	5467.2	5498.4	5417.4	5059.4	4654.6	4620.4	4829.0	4835.2	5433.0	5921.8
35°	5868.9	5837.7	5918.7	5924.9	5610.4	5046.9	4816.5	4857.0	4922.4	5408.1	5893.8
37.5°	6233.1	6286.1	6379.5	6528.9	6205.1	5601.1	5121.6	4987.8	5015.8	5523.3	5915.6
40°	6631.7	6684.6	6896.3	7045.7	6862.1	6223.8	5585.5	5292.9	5314.7	5694.5	6027.6
42.5°	7070.7	7173.4	7425.6	7687.1	7637.3	7014.6	6183.3	5741.2	5731.9	6121.1	6258.0
45°	7665.3	7802.3	8076.3	8378.3	8421.9	7920.6	6980.4	6410.6	6441.7	6678.4	6734.4
47.5°	8493.5	8487.3	8755.0	9091.3	9343.5	8860.9	7933.1	7310.4	7307.3	7559.5	7441.2
50°	9293.7	9296.8	9368.4	9757.6	10411.4	10165.4	9113.1	8506.0	8471.7	8596.2	8406.3
52.5°	9664.2	9620.6	9567.6	10037.8	11233.3	11809.3	10607.5	9860.3	9832.3	9757.6	9707.8
55°	9275.0	9290.6	9287.4	9776.2	11666.1	13543.5	12525.4	11351.7	11305.0	11071.4	11139.9
57.5°	8026.5	7976.7	8085.6	8848.4	11171.1	14726.6	15268.4	13232.2	13110.8	12335.5	12179.8
60°	5974.7	5990.3	6080.6	6980.4	9941.3	14975.7	17893.0	15439.6	14916.6	13226.0	13011.1
62.5°	4172.0	4140.9	4175.1	4679.5	7108.0	13979.4	19667.7	18123.4	17619.0	14237.8	14113.3
65°	2985.8	2945.3	3082.3	3390.6	4268.5	10688.5	19919.9	21697.7	21246.2	15853.7	15554.8
67.5°	2148.3	2142.1	2300.8	2861.3	3032.5	6155.3	18051.8	24935.7	24661.7	17771.6	16432.8
69°	1777.8	1780.9	1933.5	2562.4	2895.5	4203.2	15533.0	25493.0	25443.2	18761.7	16267.8
70°	1550.5	1563.0	1740.4	2384.9	2839.5	3455.9	13391.0	24945.0	24895.2	18954.7	15722.9
72.5°	955.8	965.2	1198.7	1911.7	2699.4	2820.8	8007.8	20408.7	20579.9	18070.5	13546.6
75°	457.7	460.8	628.9	1382.4	2602.8	2674.5	4290.3	15059.8	15420.9	14589.7	10585.7
77.5°	242.8	242.8	302.0	734.8	2107.8	2515.7	2546.8	10623.1	10922.0	9225.2	6018.3
80°	121.4	124.5	183.7	383.0	1307.7	2465.9	1989.5	6335.9	6497.8	3764.2	1874.3
82.5°	46.7	49.8	87.2	230.4	678.7	2082.9	1746.6	3116.6	3076.1	881.1	457.7
85°	6.2	6.2	31.1	137.0	289.6	918.5	1441.5	1301.4	1257.8	193.0	221.1
87.5°	0.0	0.0	6.2	40.5	87.2	267.8	557.3	358.0	398.5	52.9	109.0
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°	5819.0	5819.0	5819.0	5819.0	5819.0	5819.0	5819.0	5819.0	5819.0	5819.0	5819.0
2.5°	5909.3	5844.0	5744.3	5647.8	5545.1	5420.5	5283.5	5233.7	5146.5	5140.3	5190.1
5°	5903.1	5797.3	5622.9	5417.4	5124.7	4903.7	4664.0	4489.6	4355.7	4268.5	4290.3
7.5°	5934.2	5806.6	5504.6	5062.5	4685.8	4246.8	3876.3	3620.9	3387.4	3272.2	3259.8
10°	5884.4	5713.2	5271.1	4651.5	4097.3	3484.0	2942.2	2599.7	2251.0	2123.4	2129.6
12.5°	5912.5	5672.7	5018.9	4228.1	3465.3	2668.2	2020.6	1553.6	1226.7	1120.8	1108.4
15°	5931.1	5585.5	4776.0	3720.6	2764.7	1818.3	1170.7	881.1	778.4	759.7	756.6
17.5°	5859.5	5479.7	4433.6	3219.3	2048.7	1105.3	778.4	719.2	700.5	688.1	681.8
20°	5856.4	5417.4	4137.8	2705.6	1366.8	753.5	672.5	650.7	622.7	613.4	613.4
22.5°	5803.5	5286.6	3782.8	2142.1	871.8	647.6	604.0	569.8	538.6	526.2	523.1
25°	5787.9	5134.1	3449.7	1609.7	663.2	579.1	535.5	485.7	448.3	429.7	420.3
27.5°	5744.3	5003.3	3113.5	1133.3	579.1	516.8	460.8	407.9	364.3	336.3	333.1
30°	5588.7	4866.3	2739.8	784.6	526.2	457.7	395.4	333.1	289.6	270.9	264.6
32.5°	5523.3	4738.7	2332.0	604.0	479.5	404.7	333.1	277.1	242.8	224.2	221.1
35°	5445.4	4551.9	1936.6	526.2	435.9	351.8	280.2	233.5	205.5	189.9	189.9
37.5°	5454.8	4402.4	1566.1	476.4	389.2	302.0	239.7	199.3	174.4	158.8	158.8
40°	5426.8	4284.1	1217.4	432.8	345.6	258.4	202.4	168.1	146.3	130.8	127.7
42.5°	5554.4	4253.0	918.5	395.4	302.0	221.1	174.4	143.2	121.4	102.7	102.7
45°	5769.2	4302.8	716.1	361.2	258.4	189.9	149.4	118.3	96.5	84.1	80.9
47.5°	6342.1	4498.9	560.4	333.1	221.1	165.0	124.5	96.5	77.8	65.4	62.3
50°	7173.4	4937.9	476.4	292.7	186.8	140.1	102.7	74.7	62.3	49.8	46.7
52.5°	8356.5	5675.8	432.8	258.4	155.7	115.2	80.9	59.2	46.7	37.4	34.2
55°	9645.5	6597.4	392.3	217.9	130.8	93.4	65.4	46.7	34.2	24.9	21.8
57.5°	10651.1	7394.5	358.0	180.6	105.9	74.7	49.8	34.2	24.9	15.6	12.5
60°	11750.2	7954.9	314.5	143.2	87.2	56.0	37.4	24.9	18.7	9.3	9.3
62.5°	12883.5	8611.8	258.4	112.1	68.5	43.6	28.0	18.7	12.5	3.1	3.1
65°	14458.9	9125.5	199.3	87.2	52.9	31.1	21.8	15.6	6.2	0.0	0.0
67.5°	14904.1	8873.3	146.3	68.5	37.4	21.8	15.6	9.3	3.1	0.0	0.0
69°	14458.9	7992.2	127.7	59.2	31.1	18.7	12.5	6.2	3.1	0.0	0.0
70°	13646.3	7307.3	112.1	49.8	28.0	18.7	9.3	6.2	3.1	0.0	0.0
72.5°	11413.9	5604.2	87.2	37.4	21.8	15.6	9.3	6.2	0.0	0.0	0.0
75°	8372.1	3462.2	65.4	28.0	18.7	12.5	9.3	6.2	0.0	0.0	0.0
77.5°	4486.5	1264.1	46.7	18.7	12.5	9.3	9.3	6.2	0.0	0.0	0.0
80°	1229.8	373.6	34.2	12.5	9.3	6.2	6.2	3.1	0.0	0.0	0.0
82.5°	336.3	96.5	21.8	12.5	9.3	6.2	3.1	0.0	0.0	0.0	0.0
85°	180.6	37.4	12.5	9.3	6.2	3.1	0.0	0.0	0.0	0.0	0.0
87.5°	93.4	12.5	9.3	6.2	6.2	3.1	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)