

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: P484106

Luminaire Tested: **IFLD-M-SA4C-760-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484106
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-760-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

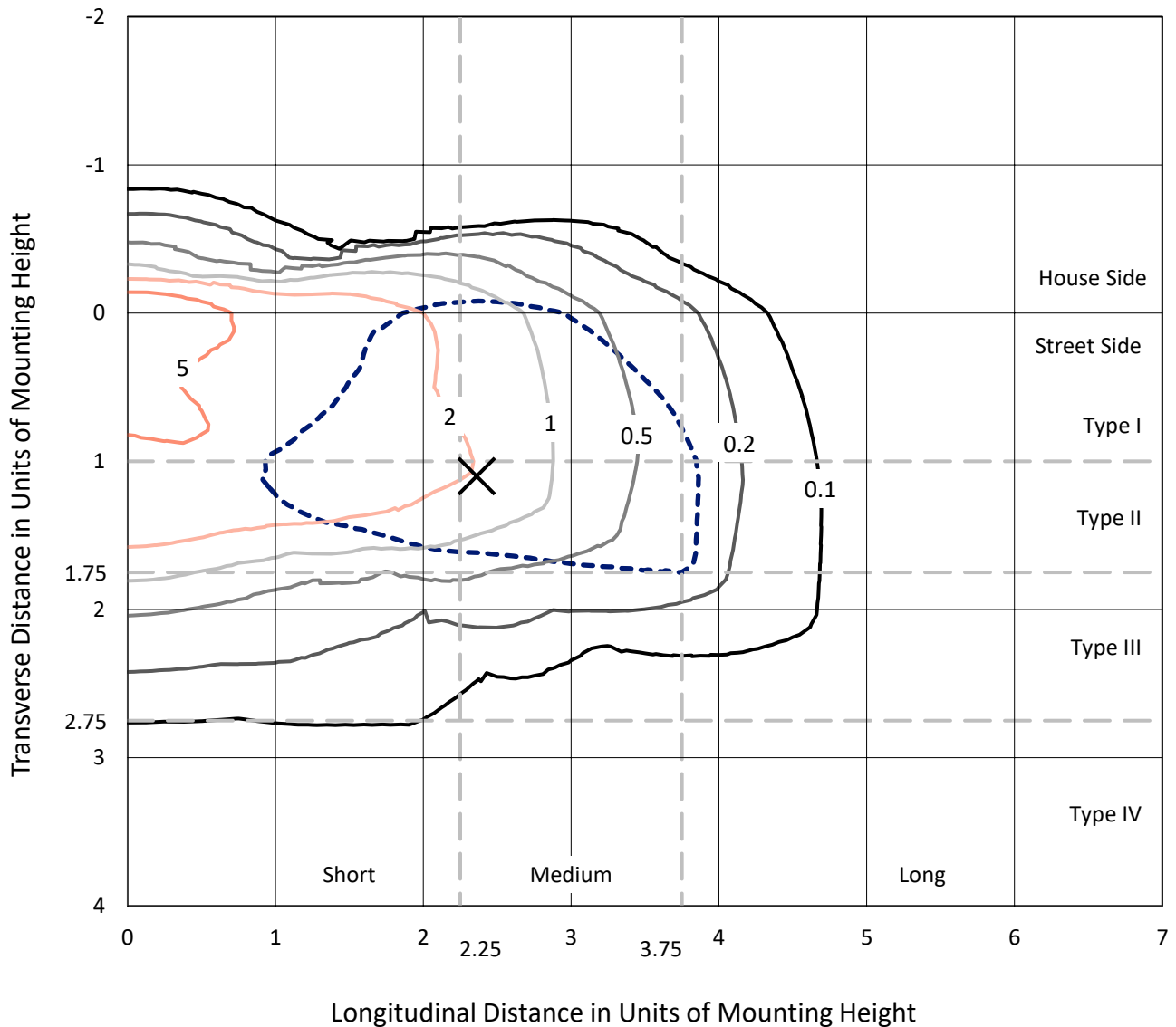
Lumens per Lamp: N/A
Luminaire Lumens: 23936.6 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

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

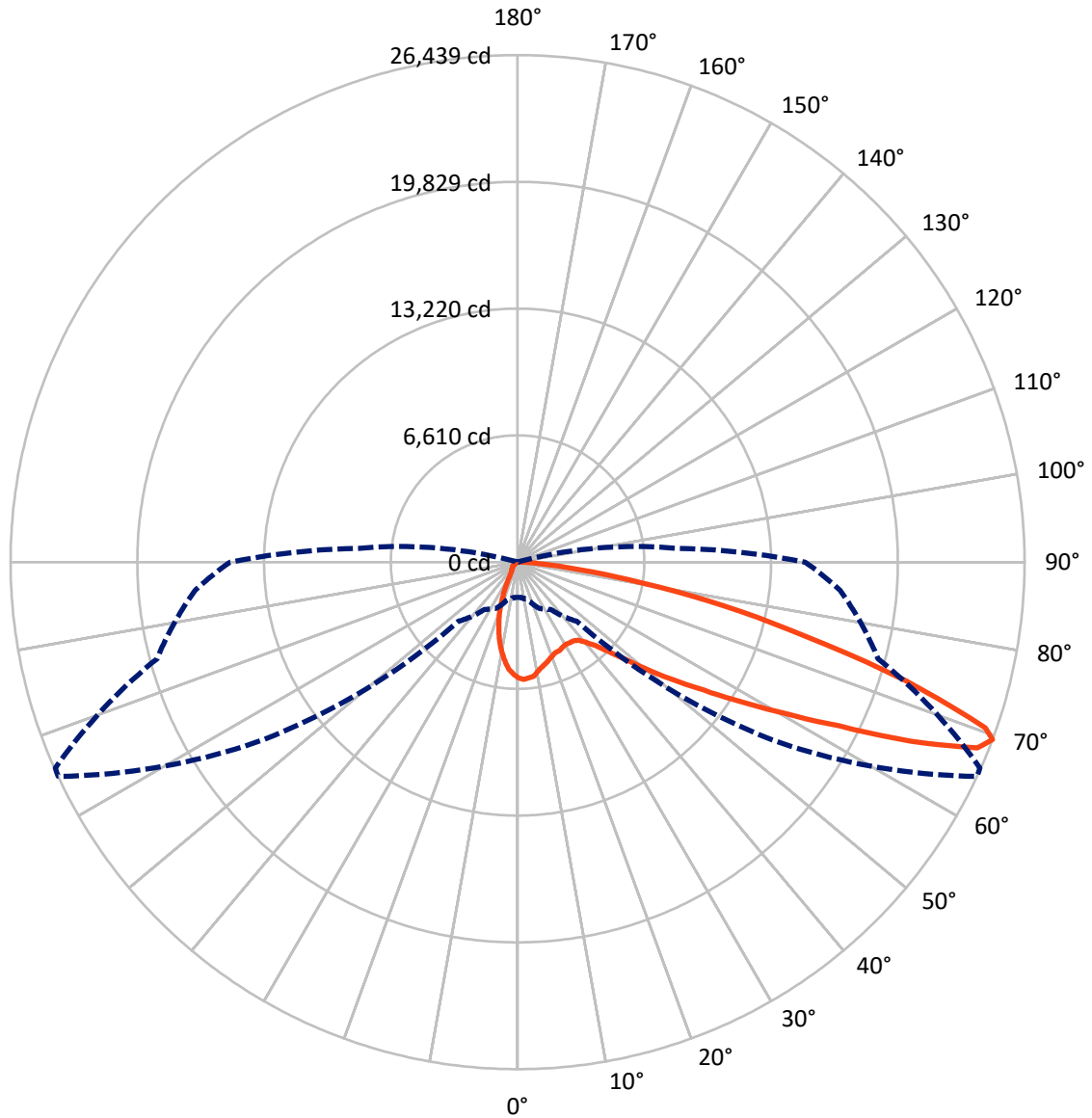
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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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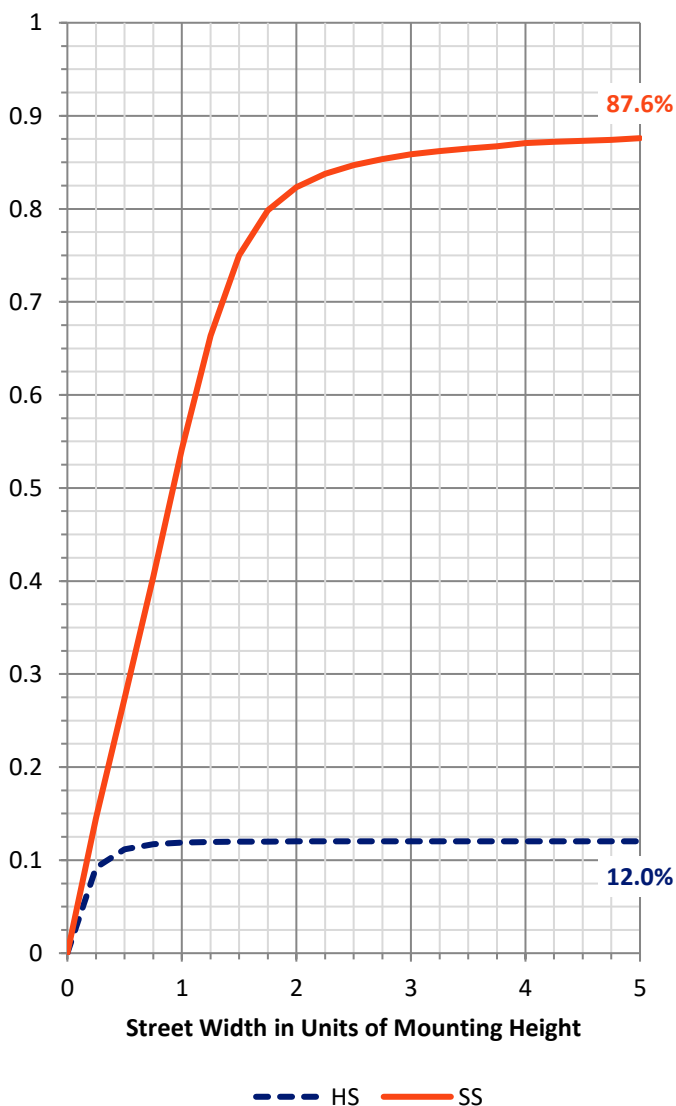
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2903.7	0.0	2903.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	21033.0	0.0	21033.0
	% Fixture	87.9	0.0	87.9
Total	Lumens	23936.6	0.0	23936.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.9	2.1
10°-20°	1080.6	4.5
20°-30°	1504.4	6.3
30°-40°	2131.8	8.9
40°-50°	3359.7	14.0
50°-60°	5451.6	22.8
60°-70°	6088.4	25.4
70°-80°	3428.5	14.3
80°-90°	397.8	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°	23936.6	100.0
0°-180°	23936.6	100.0

Coefficient of Utilization



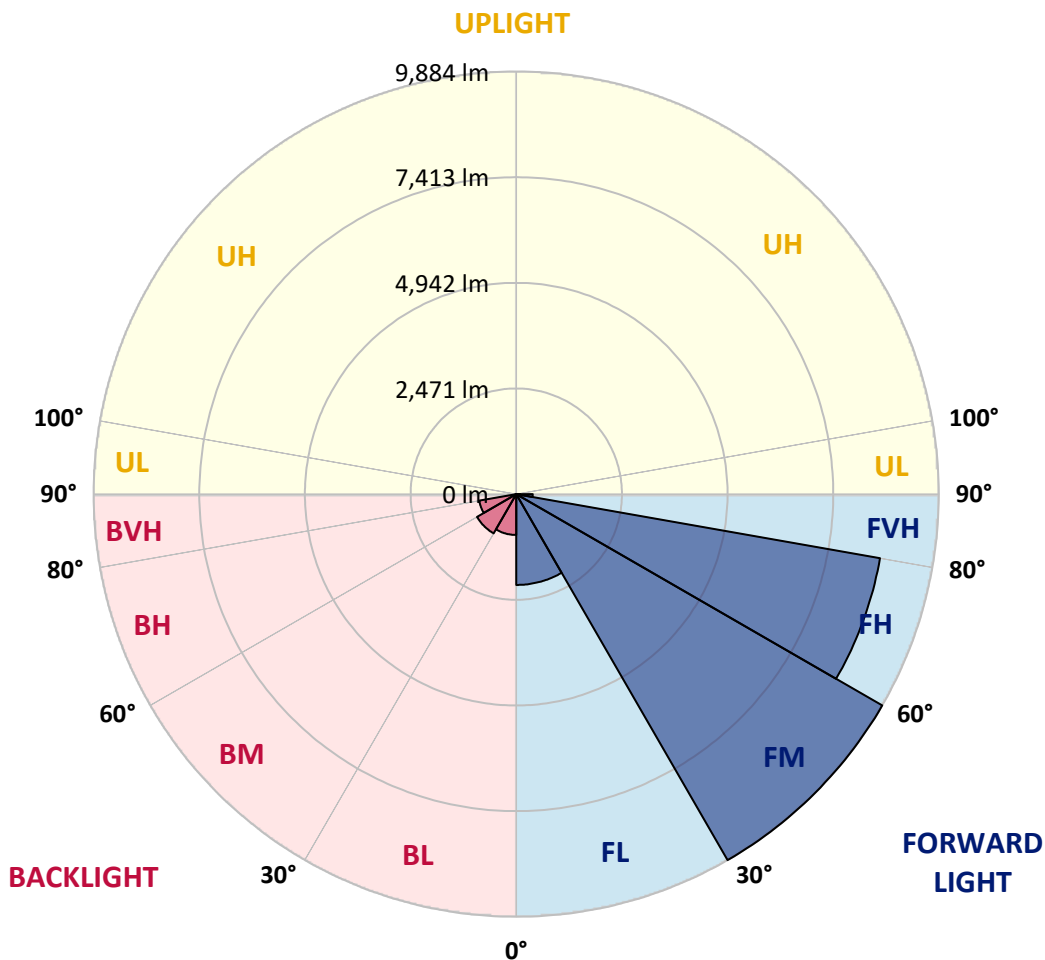
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2124.1	8.9			
FM (30°-60°)	9883.7	41.3			
FH (60°-80°)	8638.3	36.1			G4/12000
FVH (80°-90°)	386.9	1.6			G3/500
BL (0°-30°)	954.6	4.0	B2/1000		
BM (30°-60°)	1059.5	4.4	B2/2500		
BH (60°-80°)	878.5	3.7	B2/1000		G2/1000
BVH (80°-90°)	11.0	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°	6035.0	6035.0	6035.0	6035.0	6035.0	6035.0	6035.0	6035.0	6035.0	6035.0	6035.0
2.5°	5812.2	5857.4	5870.3	5915.5	5938.1	6035.0	6089.9	6122.2	6106.0	6141.5	6144.8
5°	5398.9	5373.0	5440.8	5489.3	5592.6	5760.5	5931.7	6064.0	6125.4	6183.5	6173.8
7.5°	4956.5	4943.6	5011.4	5121.2	5214.8	5418.2	5692.7	6018.8	6005.9	6148.0	6190.0
10°	4653.0	4665.9	4688.5	4798.3	4937.1	5143.8	5486.1	5789.6	5857.4	6157.7	6241.6
12.5°	4375.3	4397.9	4439.9	4552.9	4714.3	4927.4	5260.0	5615.2	5718.5	6102.8	6270.7
15°	4284.9	4233.2	4317.2	4401.1	4569.0	4759.5	5040.5	5482.8	5528.0	6038.2	6319.1
17.5°	4210.6	4178.3	4217.1	4284.9	4462.5	4617.5	4882.2	5340.8	5424.7	6012.4	6312.7
20°	4233.2	4204.1	4220.3	4272.0	4352.7	4498.0	4743.4	5205.1	5295.5	5892.9	6303.0
22.5°	4297.8	4320.4	4291.3	4304.2	4330.1	4404.3	4669.1	5108.3	5185.8	5870.3	6357.9
25°	4588.4	4549.6	4510.9	4494.8	4343.0	4375.3	4646.5	5101.8	5156.7	5789.6	6312.7
27.5°	4891.9	4859.6	4843.5	4749.8	4543.2	4446.3	4649.7	5011.4	5085.7	5757.3	6257.8
30°	5260.0	5302.0	5237.4	5124.4	4837.0	4598.1	4685.3	4966.2	5069.5	5634.6	6222.3
32.5°	5647.5	5670.1	5702.4	5618.4	5247.1	4827.3	4791.8	5008.2	5014.6	5634.6	6141.5
35°	6086.6	6054.4	6138.3	6144.8	5818.6	5234.2	4995.2	5037.2	5105.0	5608.8	6112.5
37.5°	6464.4	6519.3	6616.2	6771.2	6435.4	5809.0	5311.7	5172.8	5201.9	5728.2	6135.1
40°	6877.7	6932.6	7152.2	7307.2	7116.7	6454.8	5792.8	5489.3	5511.9	5905.8	6251.3
42.5°	7333.0	7439.6	7701.1	7972.4	7920.7	7274.9	6412.8	5954.3	5944.6	6348.2	6490.3
45°	7949.8	8091.9	8376.0	8689.2	8734.4	8214.6	7239.4	6648.5	6680.8	6926.2	6984.3
47.5°	8808.7	8802.2	9079.9	9428.7	9690.2	9189.7	8227.5	7581.7	7578.4	7840.0	7717.3
50°	9638.5	9641.8	9716.0	10119.7	10797.7	10542.7	9451.3	8821.6	8786.1	8915.2	8718.3
52.5°	10022.8	9977.6	9922.7	10410.3	11650.2	12247.6	11001.2	10226.2	10197.2	10119.7	10068.0
55°	9619.2	9635.3	9632.1	10139.0	12099.0	14046.1	12990.2	11772.9	11724.5	11482.3	11553.3
57.5°	8324.3	8272.7	8385.7	9176.8	11585.6	15273.1	15835.0	13723.2	13597.3	12793.3	12631.8
60°	6196.4	6212.6	6306.2	7239.4	10310.2	15531.4	18557.0	16012.6	15470.1	13716.8	13494.0
62.5°	4326.8	4294.6	4330.1	4853.2	7371.8	14498.2	20397.5	18796.0	18272.9	14766.2	14637.0
65°	3096.6	3054.6	3196.7	3516.4	4426.9	11085.1	20659.1	22502.8	22034.6	16442.0	16132.0
67.5°	2228.0	2221.5	2386.2	2967.4	3145.0	6383.7	18721.7	25861.0	25576.8	18431.1	17042.6
69°	1843.8	1847.0	2005.2	2657.5	3003.0	4359.1	16109.4	26439.0	26387.3	19457.9	16871.5
70°	1608.0	1621.0	1805.0	2473.4	2944.8	3584.2	13887.9	25870.7	25819.0	19658.1	16306.4
72.5°	991.3	1001.0	1243.2	1982.6	2799.5	2925.5	8305.0	21166.0	21343.6	18741.1	14049.3
75°	474.7	477.9	652.3	1433.7	2699.4	2773.7	4449.5	15618.6	15993.2	15131.0	10978.6
77.5°	251.9	251.9	313.2	762.0	2186.0	2609.0	2641.3	11017.3	11327.3	9567.5	6241.6
80°	125.9	129.2	190.5	397.2	1356.2	2557.4	2063.3	6571.0	6738.9	3903.8	1943.9
82.5°	48.4	51.7	90.4	238.9	703.9	2160.2	1811.5	3232.2	3190.2	913.8	474.7
85°	6.5	6.5	32.3	142.1	300.3	952.6	1495.0	1349.7	1304.5	200.2	229.3
87.5°	0.0	0.0	6.5	42.0	90.4	277.7	578.0	371.3	413.3	54.9	113.0
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°	6035.0	6035.0	6035.0	6035.0	6035.0	6035.0	6035.0	6035.0	6035.0	6035.0	6035.0
2.5°	6128.6	6060.8	5957.5	5857.4	5750.8	5621.7	5479.6	5427.9	5337.5	5331.1	5382.7
5°	6122.2	6012.4	5831.6	5618.4	5314.9	5085.7	4837.0	4656.2	4517.4	4426.9	4449.5
7.5°	6154.5	6022.1	5708.9	5250.3	4859.6	4404.3	4020.1	3755.3	3513.1	3393.7	3380.8
10°	6102.8	5925.2	5466.7	4824.1	4249.4	3613.2	3051.4	2696.2	2334.6	2202.2	2208.6
12.5°	6131.9	5883.2	5205.1	4385.0	3593.9	2767.2	2095.6	1611.3	1272.2	1162.4	1149.5
15°	6151.2	5792.8	4953.3	3858.6	2867.3	1885.7	1214.1	913.8	807.2	787.9	784.6
17.5°	6077.0	5683.0	4598.1	3338.8	2124.7	1146.3	807.2	745.9	726.5	713.6	707.1
20°	6073.7	5618.4	4291.3	2806.0	1417.5	781.4	697.5	674.9	645.8	636.1	636.1
22.5°	6018.8	5482.8	3923.2	2221.5	904.1	671.6	626.4	590.9	558.6	545.7	542.5
25°	6002.7	5324.6	3577.7	1669.4	687.8	600.6	555.4	503.7	465.0	445.6	435.9
27.5°	5957.5	5189.0	3229.0	1175.4	600.6	536.0	477.9	423.0	377.8	348.7	345.5
30°	5796.0	5046.9	2841.5	813.7	545.7	474.7	410.1	345.5	300.3	280.9	274.5
32.5°	5728.2	4914.5	2418.5	626.4	497.3	419.8	345.5	287.4	251.9	232.5	229.3
35°	5647.5	4720.8	2008.4	545.7	452.1	364.9	290.6	242.2	213.1	197.0	197.0
37.5°	5657.2	4565.8	1624.2	494.0	403.6	313.2	248.6	206.7	180.8	164.7	164.7
40°	5628.1	4443.1	1262.5	448.8	358.4	268.0	209.9	174.4	151.8	135.6	132.4
42.5°	5760.5	4410.8	952.6	410.1	313.2	229.3	180.8	148.5	125.9	106.6	106.6
45°	5983.3	4462.5	742.7	374.6	268.0	197.0	155.0	122.7	100.1	87.2	84.0
47.5°	6577.5	4665.9	581.2	345.5	229.3	171.1	129.2	100.1	80.7	67.8	64.6
50°	7439.6	5121.2	494.0	303.5	193.7	145.3	106.6	77.5	64.6	51.7	48.4
52.5°	8666.6	5886.4	448.8	268.0	161.4	119.5	84.0	61.4	48.4	38.7	35.5
55°	10003.4	6842.2	406.9	226.0	135.6	96.9	67.8	48.4	35.5	25.8	22.6
57.5°	11046.4	7668.9	371.3	187.3	109.8	77.5	51.7	35.5	25.8	16.1	12.9
60°	12186.2	8250.1	326.1	148.5	90.4	58.1	38.7	25.8	19.4	9.7	9.7
62.5°	13361.6	8931.4	268.0	116.2	71.0	45.2	29.1	19.4	12.9	3.2	3.2
65°	14995.4	9464.2	206.7	90.4	54.9	32.3	22.6	16.1	6.5	0.0	0.0
67.5°	15457.2	9202.6	151.8	71.0	38.7	22.6	16.1	9.7	3.2	0.0	0.0
69°	14995.4	8288.8	132.4	61.4	32.3	19.4	12.9	6.5	3.2	0.0	0.0
70°	14152.7	7578.4	116.2	51.7	29.1	19.4	9.7	6.5	3.2	0.0	0.0
72.5°	11837.5	5812.2	90.4	38.7	22.6	16.1	9.7	6.5	0.0	0.0	0.0
75°	8682.8	3590.6	67.8	29.1	19.4	12.9	9.7	6.5	0.0	0.0	0.0
77.5°	4653.0	1311.0	48.4	19.4	12.9	9.7	9.7	6.5	0.0	0.0	0.0
80°	1275.5	387.5	35.5	12.9	9.7	6.5	6.5	3.2	0.0	0.0	0.0
82.5°	348.7	100.1	22.6	12.9	9.7	6.5	3.2	0.0	0.0	0.0	0.0
85°	187.3	38.7	12.9	9.7	6.5	3.2	0.0	0.0	0.0	0.0	0.0
87.5°	96.9	12.9	9.7	6.5	6.5	3.2	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)