

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: P637288

Luminaire Tested: **IFLD-S-SA2A-727-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637288
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-727-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7446.7 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

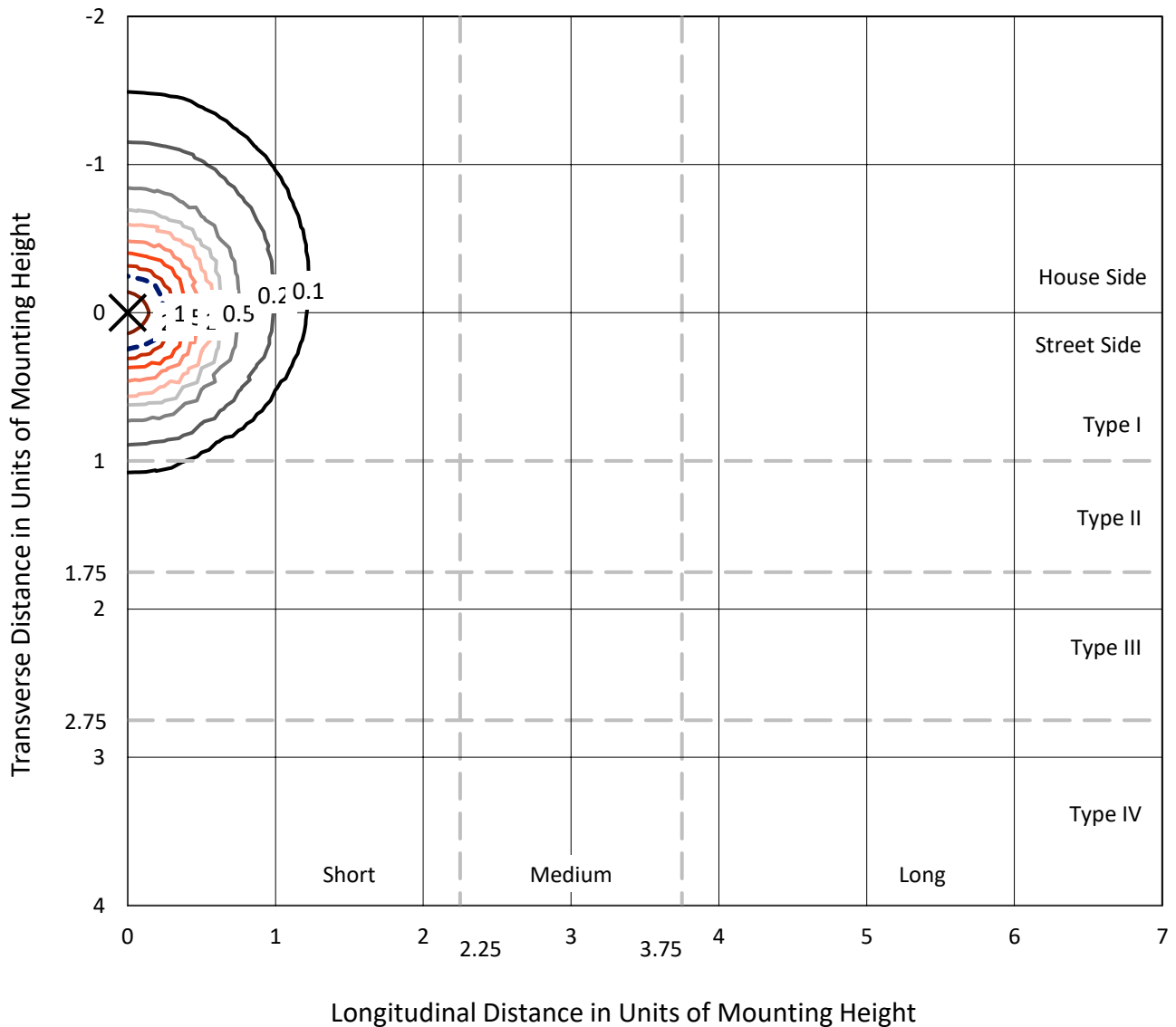
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

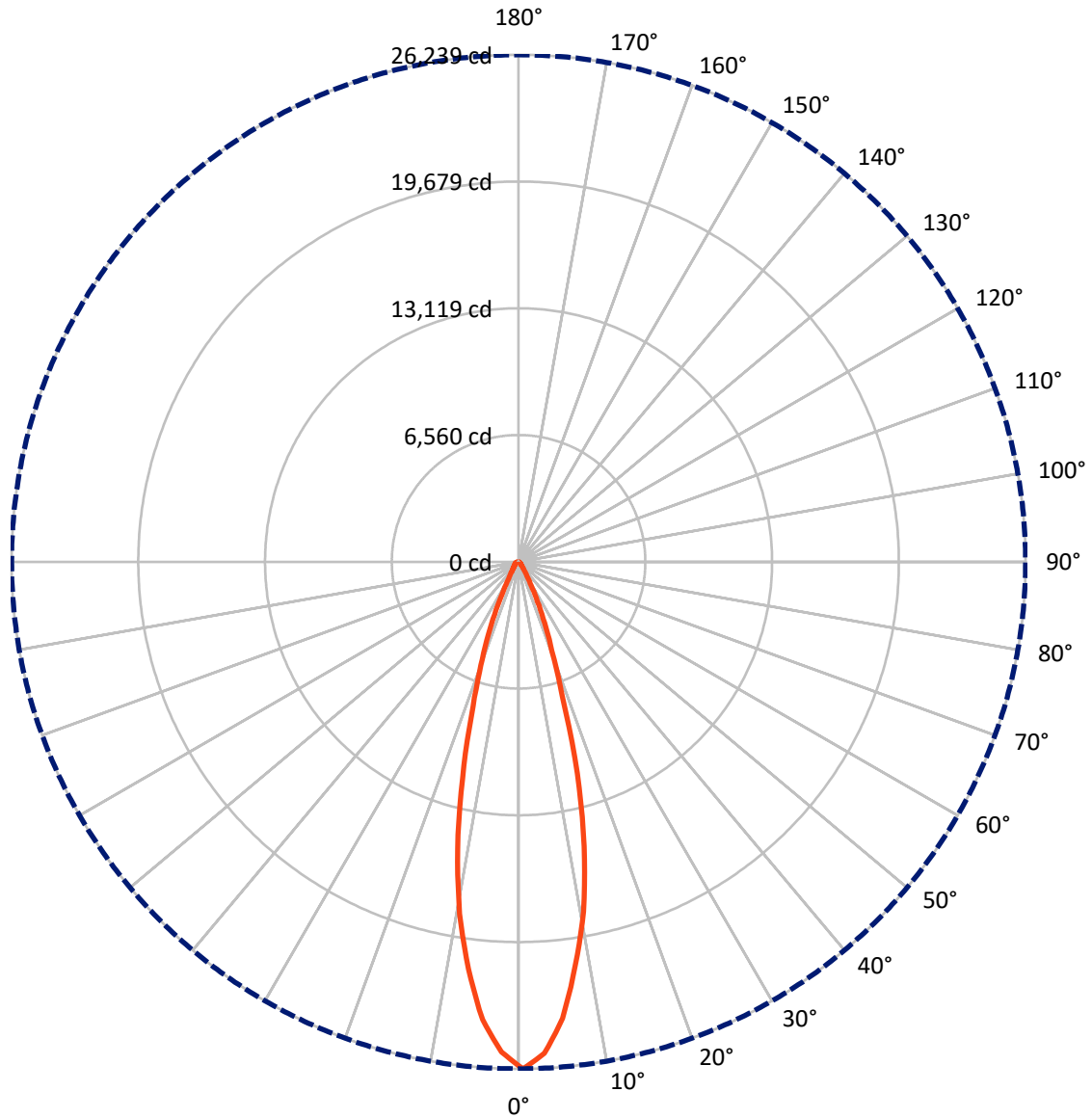
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 65.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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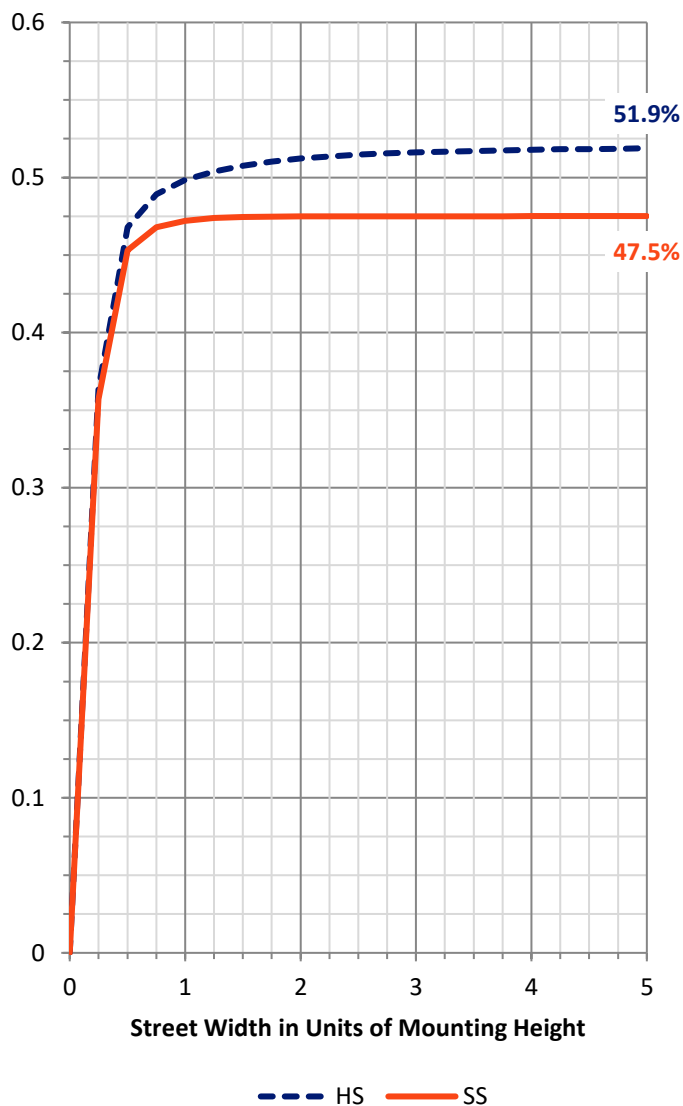
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3926.4	0.0	3926.4
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	3520.3	0.0	3520.3
	% Fixture	47.3	0.0	47.3
Total	Lumens	7446.7	0.0	7446.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2117.7	28.4
10°-20°	3207.3	43.1
20°-30°	1353.5	18.2
30°-40°	353.0	4.7
40°-50°	178.5	2.4
50°-60°	116.7	1.6
60°-70°	69.9	0.9
70°-80°	36.8	0.5
80°-90°	13.3	0.2
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°	7446.7	100.0
0°-180°	7446.7	100.0

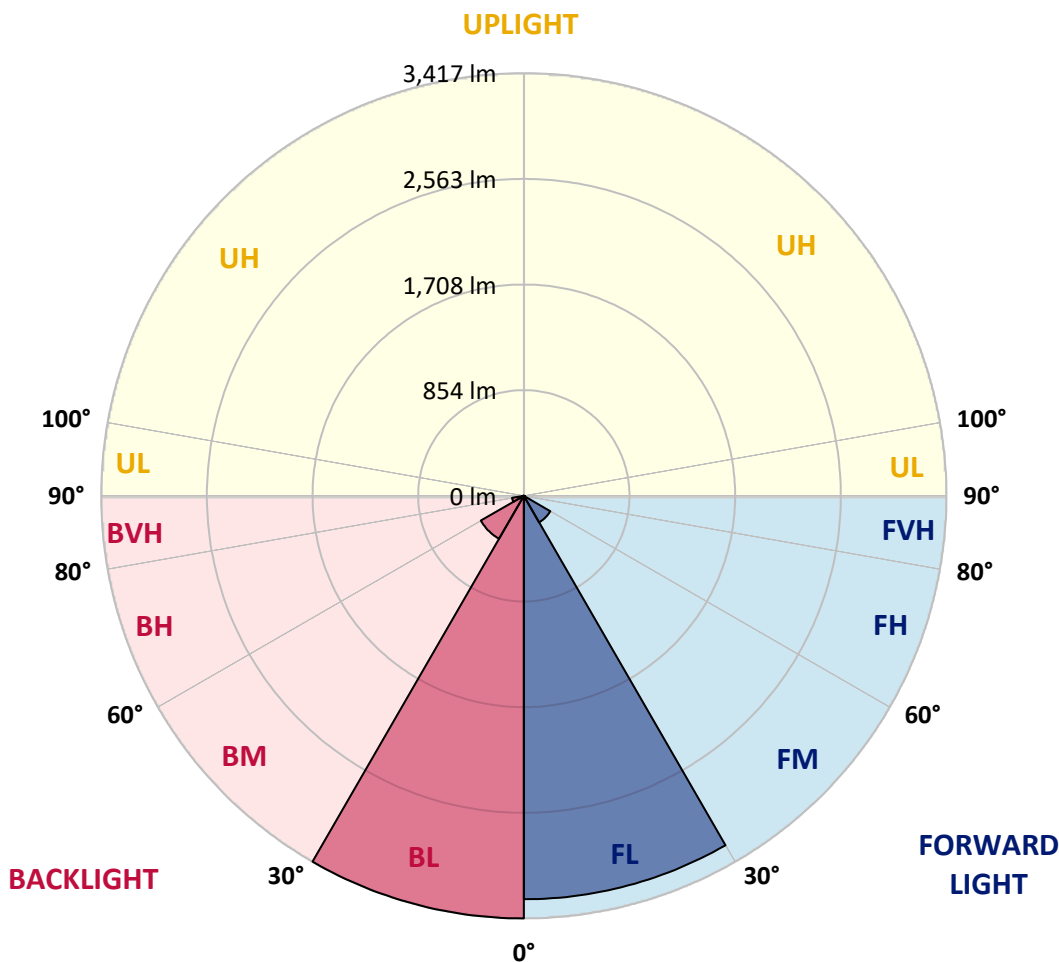


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3261.6	43.8			
FM (30°-60°)	247.0	3.3			
FH (60°-80°)	10.1	0.1			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	3416.9	45.9	B4/5000		
BM (30°-60°)	401.2	5.4	B1/1000		
BH (60°-80°)	96.6	1.3	B0/110		G0/660
BVH (80°-90°)	11.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	26238.9	26238.9	26238.9	26238.9	26238.9	26238.9	26238.9	26238.9	26238.9	26238.9
2.5°	25474.5	25488.7	25436.1	25549.8	25461.2	25698.7	25580.7	25764.7	25702.8	25805.7
5°	23735.1	23711.7	23696.6	23873.1	23822.1	24077.1	23914.0	23860.5	24026.1	23996.0
7.5°	21108.4	21170.2	21135.1	21181.1	21207.0	21498.1	21590.0	21518.1	21520.6	21562.4
10°	18415.6	18324.4	18194.8	18280.9	18463.2	18590.3	18539.3	18644.7	18621.3	18720.8
12.5°	15102.2	15174.2	15101.4	15024.5	15343.1	15308.0	15396.6	15454.3	15309.6	15631.6
15°	11375.8	11413.4	11502.1	11496.2	11741.3	11790.6	11778.9	11839.9	11727.0	11780.6
17.5°	7308.2	7435.3	7673.6	8076.7	8530.0	8582.7	8569.3	8519.1	8464.8	8404.5
20°	4908.9	4895.5	4981.7	5099.6	6037.9	6286.3	6278.7	6121.5	5894.0	5850.6
22.5°	3438.8	3463.8	3452.1	3569.2	3763.2	4448.1	4363.7	4203.9	4129.5	4081.0
25°	2262.1	2252.9	2311.5	2346.6	2513.0	2596.6	2892.7	2833.3	2718.7	2731.3
27.5°	1379.0	1390.7	1412.5	1442.6	1560.5	1533.7	1702.7	1725.2	1688.4	1649.1
30°	846.3	854.7	872.2	894.0	935.0	905.7	952.5	1033.6	1020.3	992.7
32.5°	574.5	575.4	587.9	596.3	591.2	563.6	578.7	655.6	657.3	654.8
35°	413.1	413.1	424.8	431.5	417.3	394.7	397.2	444.9	465.8	470.0
37.5°	285.2	286.0	306.1	326.1	310.3	304.4	294.4	326.1	359.6	364.6
40°	216.6	215.8	225.8	240.8	242.5	231.6	235.0	255.1	289.4	293.5
42.5°	175.6	176.5	181.5	179.8	180.6	194.9	199.9	209.1	240.8	248.4
45°	148.0	148.9	151.4	143.0	139.7	161.4	168.1	173.1	199.9	209.1
47.5°	122.1	123.8	126.3	117.1	115.4	129.6	141.3	146.3	169.8	179.8
50°	87.8	89.5	98.7	93.7	98.7	102.0	117.9	125.4	141.3	154.7
52.5°	63.6	65.2	67.7	68.6	81.1	82.8	94.5	106.2	113.7	128.8
55°	50.2	51.8	50.2	48.5	59.4	68.6	72.8	85.3	91.2	108.7
57.5°	28.4	30.1	32.6	37.6	39.3	52.7	56.9	67.7	72.8	89.5
60°	5.0	5.9	9.2	22.6	27.6	33.5	42.6	51.8	58.5	70.2
62.5°	0.8	0.8	1.7	5.0	15.9	23.4	30.9	36.8	42.6	53.5
65°	0.0	0.0	0.8	1.7	4.2	13.4	16.7	21.7	29.3	38.5
67.5°	0.0	0.0	0.8	1.7	2.5	5.0	7.5	13.4	16.7	25.9
70°	0.0	0.0	0.8	1.7	2.5	3.3	4.2	5.9	10.0	15.9
72.5°	0.0	0.0	0.8	1.7	2.5	3.3	4.2	5.0	5.0	10.0
75°	0.0	0.0	0.8	1.7	2.5	4.2	5.0	5.0	4.2	4.2
77.5°	0.0	0.0	0.8	1.7	3.3	5.0	5.9	5.0	3.3	3.3
80°	0.0	0.0	1.7	2.5	4.2	5.9	7.5	5.9	3.3	1.7
82.5°	0.0	0.0	1.7	3.3	4.2	6.7	9.2	7.5	3.3	1.7
85°	0.0	0.0	0.8	2.5	5.0	6.7	9.2	6.7	3.3	0.8
87.5°	0.0	0.0	0.8	0.8	1.7	2.5	5.0	4.2	1.7	0.8
90°	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°
26238.9	0°	26238.9	26238.9	26238.9	26238.9	26238.9	26238.9	26238.9	26238.9	26238.9
25610.8	2.5°	25758.0	25891.8	25919.4	25882.6	25936.2	25840.0	25766.4	25575.7	25461.2
23986.8	5°	24141.5	24121.4	24261.1	24307.1	24301.2	24227.7	24124.8	24009.4	23897.3
21481.3	7.5°	21615.1	21641.1	21768.2	21849.3	21808.3	21716.3	21645.2	21558.3	21483.0
18756.8	10°	18928.2	18750.1	18908.1	18908.1	19017.7	18757.6	18781.8	18562.7	18572.8
15625.8	12.5°	15679.3	15743.7	15769.6	15844.0	15716.1	15578.1	15409.2	15375.7	15271.2
11678.5	15°	11846.6	12030.6	11872.6	12142.7	12012.2	11868.4	11842.5	11583.2	11665.2
8470.6	17.5°	8428.8	8632.0	8695.6	8850.3	8731.5	8646.2	8538.3	8459.7	8453.9
5930.0	20°	5976.8	6180.9	6227.7	6413.4	6400.0	6373.2	6282.1	6182.6	6074.7
4036.7	22.5°	4097.7	4264.2	4419.7	4669.7	4665.6	4587.0	4577.8	4437.3	4439.8
2727.1	25°	2755.5	2876.8	2913.6	3169.5	3197.9	3189.5	3141.9	3011.4	3060.8
1665.9	27.5°	1667.5	1773.7	1898.3	1988.7	2074.0	2060.6	2012.9	1940.2	1908.4
1001.0	30°	1027.8	1075.4	1121.4	1230.2	1281.2	1307.9	1285.4	1217.6	1222.6
659.0	32.5°	673.2	713.3	746.8	815.4	842.1	891.5	882.3	868.1	851.3
474.2	35°	490.9	520.2	542.7	574.5	608.8	650.6	657.3	651.5	644.8
366.3	37.5°	374.7	404.8	430.7	444.1	470.8	503.4	521.8	521.0	516.0
298.5	40°	304.4	327.0	350.4	368.0	386.4	410.6	433.2	435.7	435.7
250.9	42.5°	254.2	273.5	296.9	315.3	328.7	351.2	374.7	376.3	374.7
212.4	45°	217.4	234.2	256.7	278.5	289.4	306.1	328.7	333.7	330.3
182.3	47.5°	189.0	204.1	223.3	246.7	258.4	273.5	294.4	300.2	299.4
157.2	50°	162.2	179.8	199.0	218.3	233.3	247.5	267.6	274.3	271.8
133.8	52.5°	143.0	158.9	175.6	196.5	214.1	226.6	242.5	254.2	250.9
112.9	55°	119.6	138.8	156.4	173.9	195.7	209.1	224.1	238.3	235.0
95.3	57.5°	103.7	119.6	139.7	155.5	177.3	193.2	208.2	223.3	222.4
77.8	60°	87.0	103.7	122.9	139.7	159.7	177.3	192.3	209.1	210.7
58.5	62.5°	68.6	88.6	105.4	124.6	144.7	163.9	177.3	194.0	196.5
44.3	65°	51.8	72.8	91.2	109.6	129.6	150.5	162.2	176.5	179.0
32.6	67.5°	38.5	56.0	77.8	94.5	115.4	135.5	146.3	158.1	162.2
20.1	70°	29.3	42.6	65.2	81.1	102.9	118.8	130.5	140.5	143.8
13.4	72.5°	18.4	33.5	52.7	69.4	88.6	102.9	111.2	117.1	122.1
7.5	75°	12.5	25.9	42.6	59.4	73.6	84.5	92.0	97.0	101.2
3.3	77.5°	7.5	20.1	35.1	49.3	58.5	66.9	74.4	77.8	80.3
2.5	80°	4.2	15.1	29.3	40.1	46.0	51.8	57.7	61.9	63.6
1.7	82.5°	2.5	11.7	23.4	30.9	33.5	39.3	45.2	47.7	47.7
0.8	85°	1.7	8.4	15.9	22.6	24.3	28.4	30.1	31.8	33.5
0.8	87.5°	1.7	5.0	10.0	12.5	13.4	15.1	15.9	17.6	19.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
26238.9
25376.7
23771.9
21227.9
18474.9
15175.8
11583.2
8298.3
6027.9
4391.3
2983.0
1880.8
1200.9
845.5
642.3
513.5
430.7
373.0
330.3
297.7
270.1
250.0
236.7
223.3
211.6
198.2
181.5
163.9
145.5
121.3
100.4
79.4
61.9
46.8
32.6
18.4
0.0

(END OF REPORT)