

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: P636723

Luminaire Tested: **IFLD-M-SA4A-927-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636723
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-927-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8993.1 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

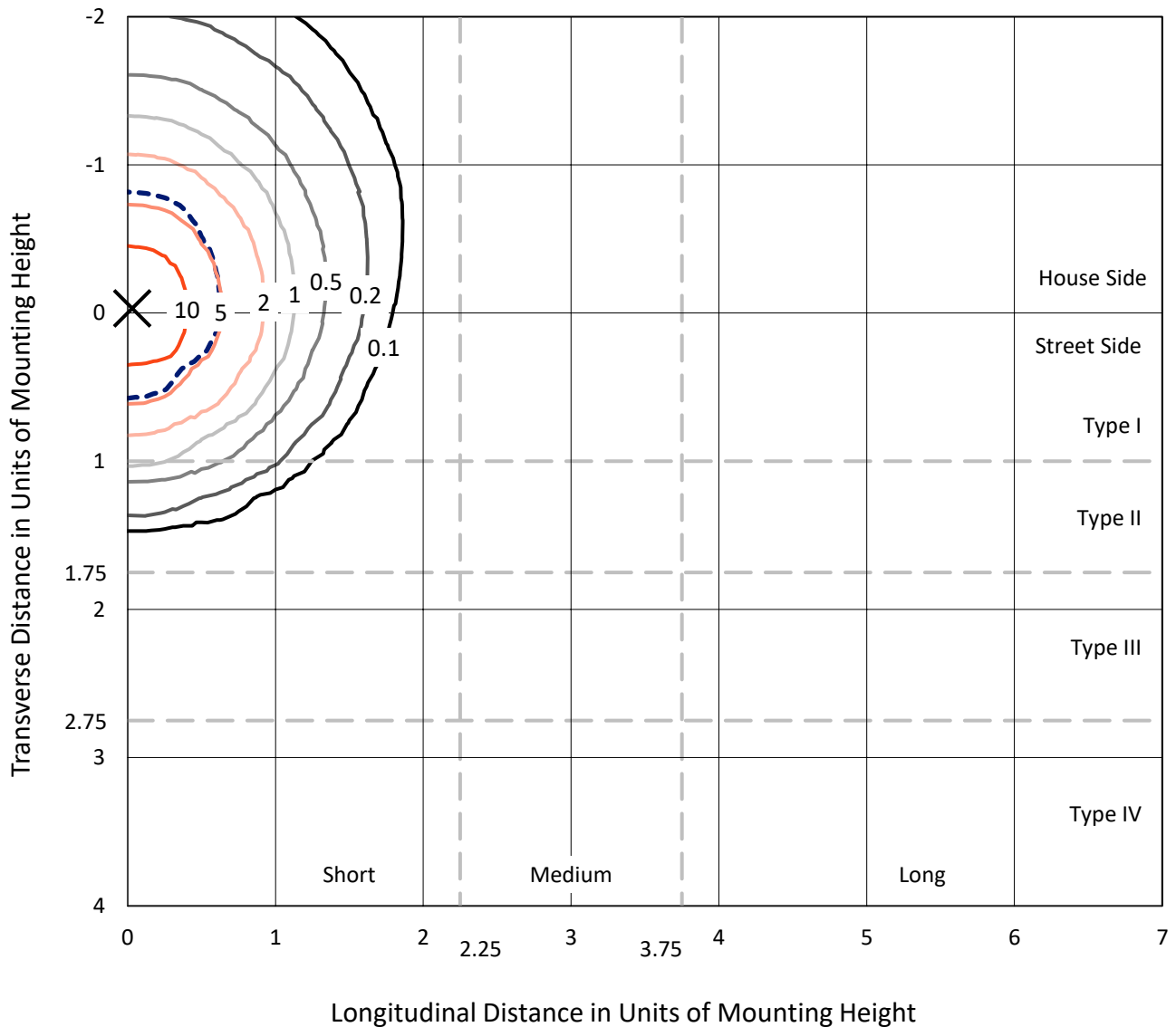
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

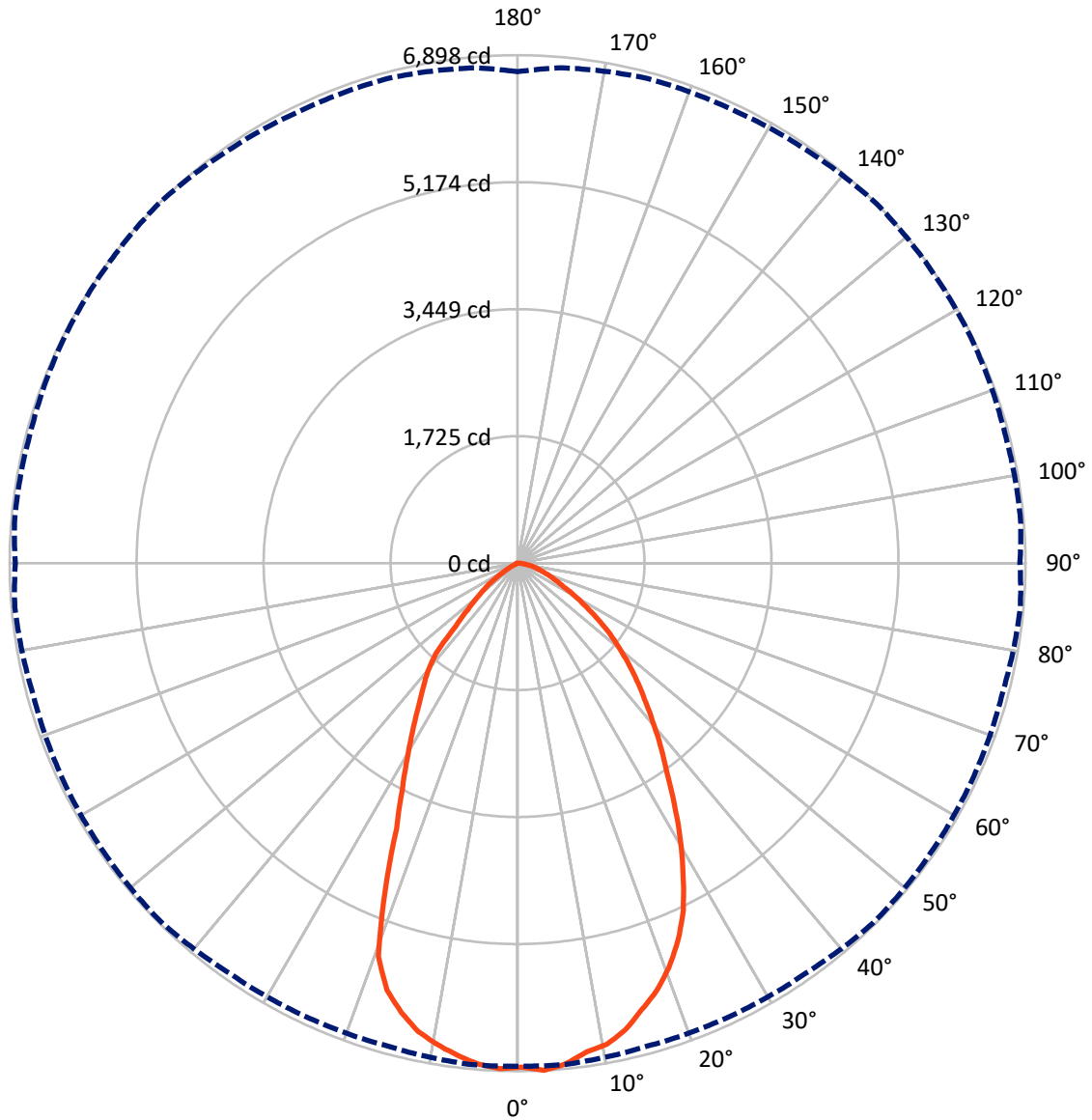
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 17.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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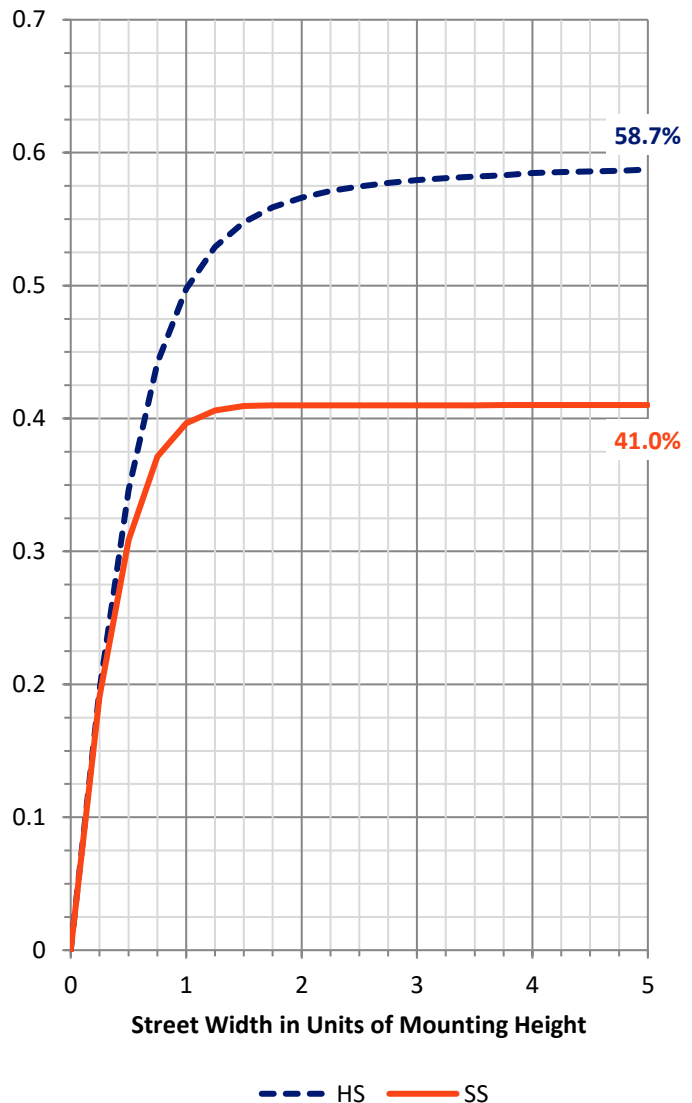
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5326.2	0.0	5326.2
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	3666.9	0.0	3666.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	8993.1	0.0	8993.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	641.8	7.1
10°-20°	1721.1	19.1
20°-30°	2099.0	23.3
30°-40°	1916.4	21.3
40°-50°	1384.9	15.4
50°-60°	756.2	8.4
60°-70°	312.7	3.5
70°-80°	126.6	1.4
80°-90°	34.4	0.4
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°	8993.1	100.0
0°-180°	8993.1	100.0



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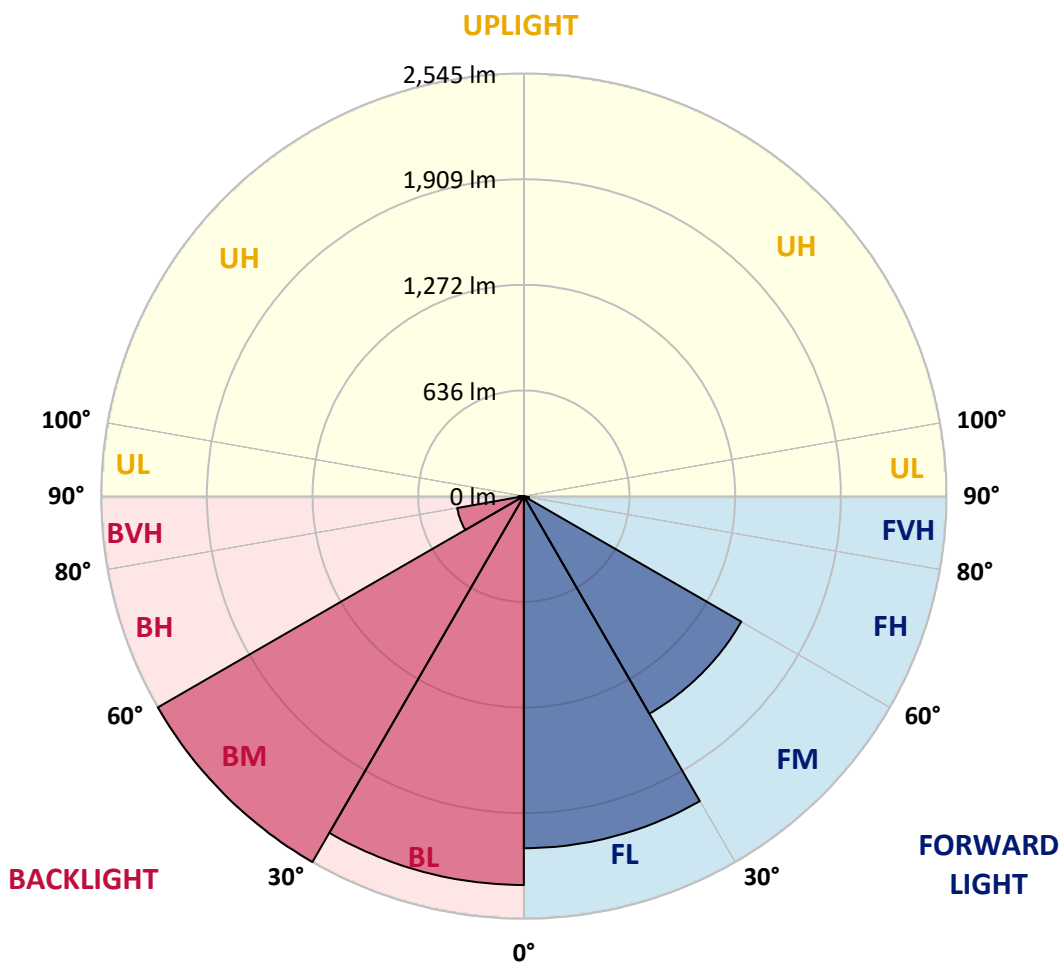
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2120.0	23.6			
FM (30°-60°)	1512.5	16.8			
FH (60°-80°)	31.7	0.4			G0/660
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	2341.9	26.0	B3/2500		
BM (30°-60°)	2545.0	28.3	B3/5000		
BH (60°-80°)	407.6	4.5	B1/500		G1/500
BVH (80°-90°)	31.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6843.7	6843.7	6843.7	6843.7	6843.7	6843.7	6843.7	6843.7	6843.7	6843.7
2.5°	6831.0	6839.9	6791.8	6796.8	6805.7	6870.3	6853.8	6838.6	6817.1	6853.8
5°	6822.2	6827.2	6776.6	6758.8	6766.4	6824.7	6771.5	6771.5	6766.4	6760.1
7.5°	6753.8	6756.3	6717.1	6685.4	6705.7	6732.2	6693.0	6712.0	6684.1	6705.7
10°	6651.2	6634.7	6587.9	6579.0	6601.8	6627.1	6600.5	6618.3	6592.9	6609.4
12.5°	6500.5	6475.2	6437.2	6425.8	6465.0	6499.2	6477.7	6467.6	6434.6	6475.2
15°	5919.2	5900.2	5986.3	6137.0	6272.5	6301.7	6278.9	6289.0	6220.6	6232.0
17.5°	4871.9	4836.4	4928.9	5286.0	5795.1	6063.6	6043.3	5977.5	5876.2	5899.0
20°	4427.4	4417.2	4407.1	4492.0	4847.8	5662.1	5690.0	5522.8	5378.5	5346.8
22.5°	4176.6	4172.8	4162.7	4181.7	4275.4	4798.4	5117.6	4963.1	4866.8	4858.0
25°	3947.4	3941.1	3910.7	3934.7	3934.7	3965.1	4374.2	4467.9	4383.1	4372.9
27.5°	3714.4	3703.0	3697.9	3709.3	3651.1	3445.9	3549.8	4006.9	3962.6	3965.1
30°	3462.4	3458.6	3444.6	3468.7	3288.9	3034.3	2968.5	3589.0	3597.9	3595.3
32.5°	3087.5	3104.0	3167.3	3193.9	2897.6	2687.3	2577.1	3105.2	3286.3	3282.5
35°	2242.8	2242.8	2449.2	2833.0	2539.2	2380.9	2321.3	2632.9	2978.6	2991.3
37.5°	1843.9	1850.2	1890.8	2065.5	2190.9	2135.2	2117.4	2216.2	2583.5	2603.7
40°	1659.0	1659.0	1659.0	1586.8	1583.0	1923.7	1913.5	1881.9	2231.4	2275.7
42.5°	1490.6	1494.4	1496.9	1314.5	1213.2	1662.8	1640.0	1591.9	1916.1	1968.0
45°	1317.1	1323.4	1331.0	1099.2	1054.9	1196.8	1388.0	1334.8	1604.5	1671.7
47.5°	804.2	814.3	986.5	932.1	937.1	923.2	1132.2	1123.3	1315.8	1410.8
50°	543.3	547.1	563.6	591.4	804.2	725.7	801.6	929.5	999.2	1143.6
52.5°	455.9	462.2	421.7	383.7	528.1	567.4	559.8	690.2	718.1	896.6
55°	320.4	340.7	321.7	317.9	300.1	440.7	424.2	530.6	548.4	681.3
57.5°	32.9	38.0	65.9	236.8	196.3	249.5	302.7	388.8	406.5	502.8
60°	2.5	2.5	6.3	32.9	143.1	149.4	209.0	239.4	273.5	350.8
62.5°	0.0	1.3	2.5	5.1	22.8	79.8	105.1	125.4	164.6	226.7
65°	0.0	0.0	1.3	3.8	5.1	30.4	40.5	65.9	89.9	140.6
67.5°	0.0	0.0	1.3	2.5	3.8	7.6	13.9	24.1	48.1	79.8
70°	0.0	0.0	1.3	2.5	3.8	6.3	10.1	15.2	21.5	43.1
72.5°	0.0	0.0	1.3	1.3	2.5	6.3	7.6	10.1	15.2	21.5
75°	0.0	0.0	1.3	1.3	3.8	7.6	6.3	7.6	10.1	13.9
77.5°	0.0	0.0	1.3	2.5	3.8	7.6	6.3	7.6	7.6	8.9
80°	0.0	0.0	1.3	2.5	5.1	8.9	7.6	7.6	6.3	6.3
82.5°	0.0	0.0	1.3	3.8	5.1	11.4	11.4	10.1	5.1	3.8
85°	0.0	0.0	2.5	5.1	7.6	12.7	12.7	10.1	3.8	2.5
87.5°	0.0	0.0	2.5	3.8	6.3	8.9	12.7	10.1	3.8	1.3
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°
6843.7	0°	6843.7	6843.7	6843.7	6843.7	6843.7	6843.7	6843.7	6843.7	6843.7
6822.2	2.5°	6856.4	6848.8	6874.1	6884.2	6898.1	6845.0	6812.0	6813.3	6752.5
6744.9	5°	6785.4	6786.7	6819.6	6817.1	6831.0	6801.9	6789.2	6767.7	6714.5
6647.4	7.5°	6695.5	6684.1	6715.8	6739.8	6704.4	6724.7	6695.5	6705.7	6674.0
6561.3	10°	6625.9	6599.3	6628.4	6644.9	6646.1	6625.9	6598.0	6571.4	6560.0
6427.0	12.5°	6471.4	6437.2	6486.6	6509.4	6505.6	6466.3	6434.6	6441.0	6404.2
6191.5	15°	6258.6	6259.9	6295.3	6316.9	6296.6	6287.7	6290.3	6275.1	6243.4
5866.0	17.5°	5933.1	5952.1	6045.9	6097.8	6109.2	6091.4	6082.6	6064.9	6033.2
5346.8	20°	5391.1	5505.1	5672.3	5833.1	5864.8	5859.7	5828.0	5820.4	5802.7
4832.6	22.5°	4914.9	4999.8	5193.6	5444.3	5573.5	5586.1	5548.2	5536.8	5517.8
4372.9	25°	4422.3	4513.5	4688.3	4960.5	5227.8	5282.2	5275.9	5241.7	5221.4
3965.1	27.5°	4006.9	4098.1	4256.4	4502.1	4788.3	4963.1	4979.5	4925.1	4923.8
3601.7	30°	3632.1	3757.4	3877.8	4077.8	4355.2	4617.3	4645.2	4607.2	4611.0
3268.6	32.5°	3338.3	3442.1	3544.7	3678.9	3909.4	4214.6	4323.5	4288.1	4274.1
2991.3	35°	3038.1	3109.0	3214.2	3337.0	3494.0	3796.7	3985.4	3958.8	3944.9
2616.4	37.5°	2696.2	2817.8	2893.8	3031.8	3154.6	3395.3	3661.2	3657.4	3628.3
2297.3	40°	2345.4	2473.3	2588.5	2727.9	2822.8	3014.1	3309.1	3307.9	3311.7
1966.7	42.5°	2027.5	2145.3	2284.6	2436.6	2527.8	2667.1	2983.7	3001.4	3022.9
1694.5	45°	1740.1	1846.4	1975.6	2160.5	2270.7	2350.5	2631.6	2712.7	2711.4
1451.3	47.5°	1481.7	1581.7	1690.7	1870.5	2011.1	2083.2	2316.3	2431.5	2423.9
1190.4	50°	1243.6	1332.3	1446.2	1576.7	1765.4	1828.7	2002.2	2154.2	2142.8
948.5	52.5°	1000.5	1123.3	1219.6	1338.6	1537.4	1599.5	1733.7	1881.9	1873.0
711.7	55°	780.1	899.2	1015.7	1118.2	1285.4	1377.9	1474.1	1626.1	1623.5
557.2	57.5°	590.1	720.6	830.8	928.3	1061.3	1175.2	1252.5	1390.5	1408.3
381.2	60°	436.9	537.0	656.0	764.9	870.0	987.8	1039.7	1175.2	1182.8
260.9	62.5°	297.6	407.8	524.3	623.1	701.6	823.2	870.0	981.5	995.4
167.2	65°	206.4	277.3	410.3	481.2	577.5	681.3	728.2	816.8	844.7
96.2	67.5°	136.8	197.6	320.4	385.0	480.0	550.9	610.4	682.6	713.0
60.8	70°	74.7	145.6	229.2	303.9	386.3	454.6	512.9	571.2	597.7
27.9	72.5°	50.7	97.5	159.6	240.6	311.5	378.7	430.6	473.6	474.9
16.5	75°	25.3	65.9	121.6	186.2	243.2	309.0	355.9	381.2	350.8
10.1	77.5°	15.2	48.1	98.8	149.4	197.6	249.5	276.1	290.0	240.6
7.6	80°	8.9	34.2	77.3	119.0	136.8	183.6	209.0	212.8	160.8
5.1	82.5°	6.3	25.3	60.8	87.4	83.6	129.2	157.0	152.0	102.6
3.8	85°	3.8	17.7	38.0	54.5	50.7	84.8	91.2	93.7	59.5
2.5	87.5°	2.5	10.1	20.3	29.1	24.1	36.7	36.7	44.3	29.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6843.7
6674.0
6701.9
6620.8
6509.4
6372.6
6211.8
6019.3
5762.2
5512.7
5199.9
4921.3
4592.0
4275.4
3925.9
3652.3
3311.7
3011.5
2713.9
2426.4
2152.9
1892.0
1629.9
1400.7
1194.2
997.9
838.4
709.2
587.6
463.5
328.0
231.8
150.7
95.0
54.5
25.3
0.0

(END OF REPORT)