

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: P636768

Luminaire Tested: **IFLD-S-SA2C-935-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636768  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-935-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (32) 3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7259.3 lumens  
Efficiency: N/A  
Efficacy: 67.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

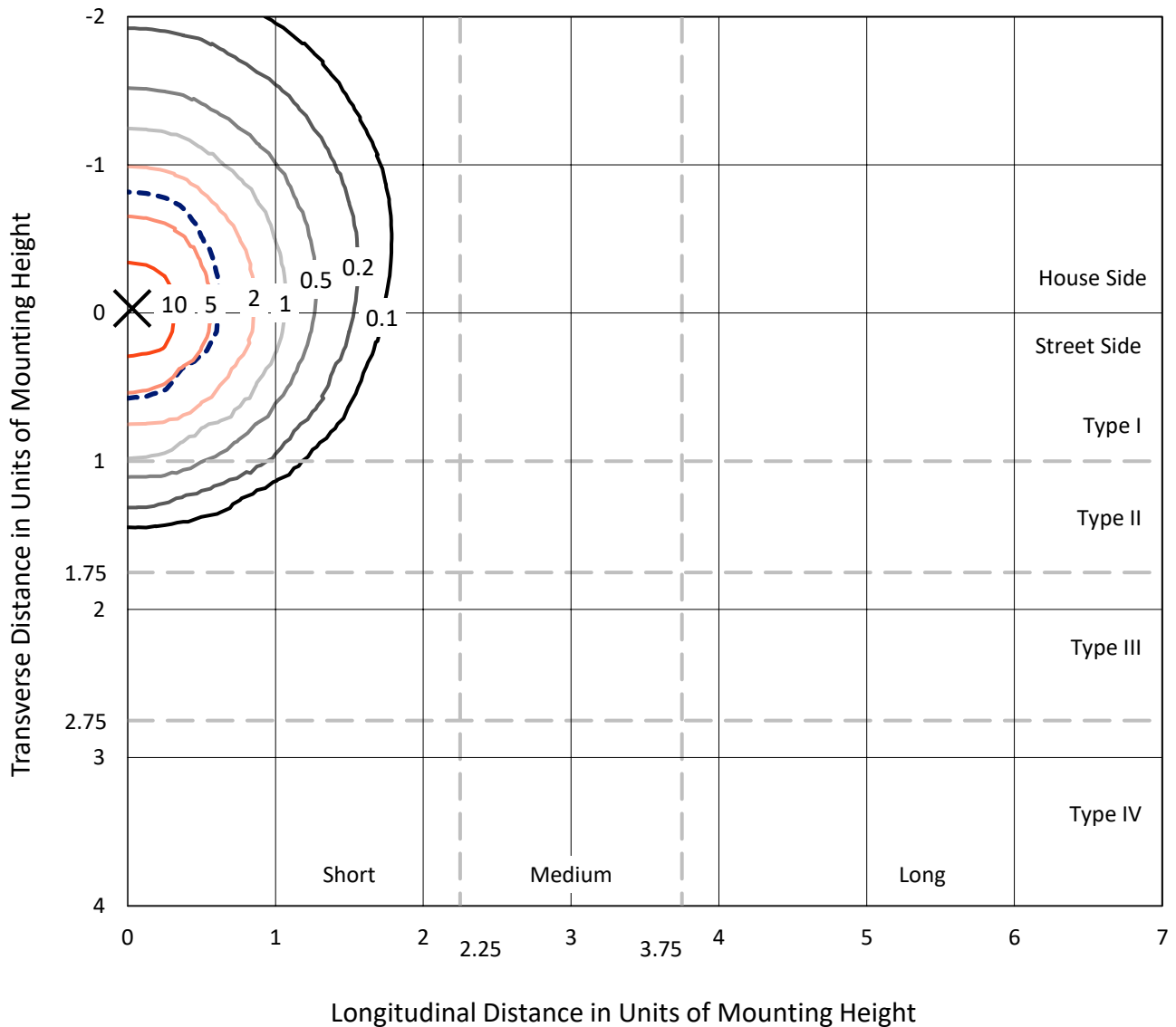
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

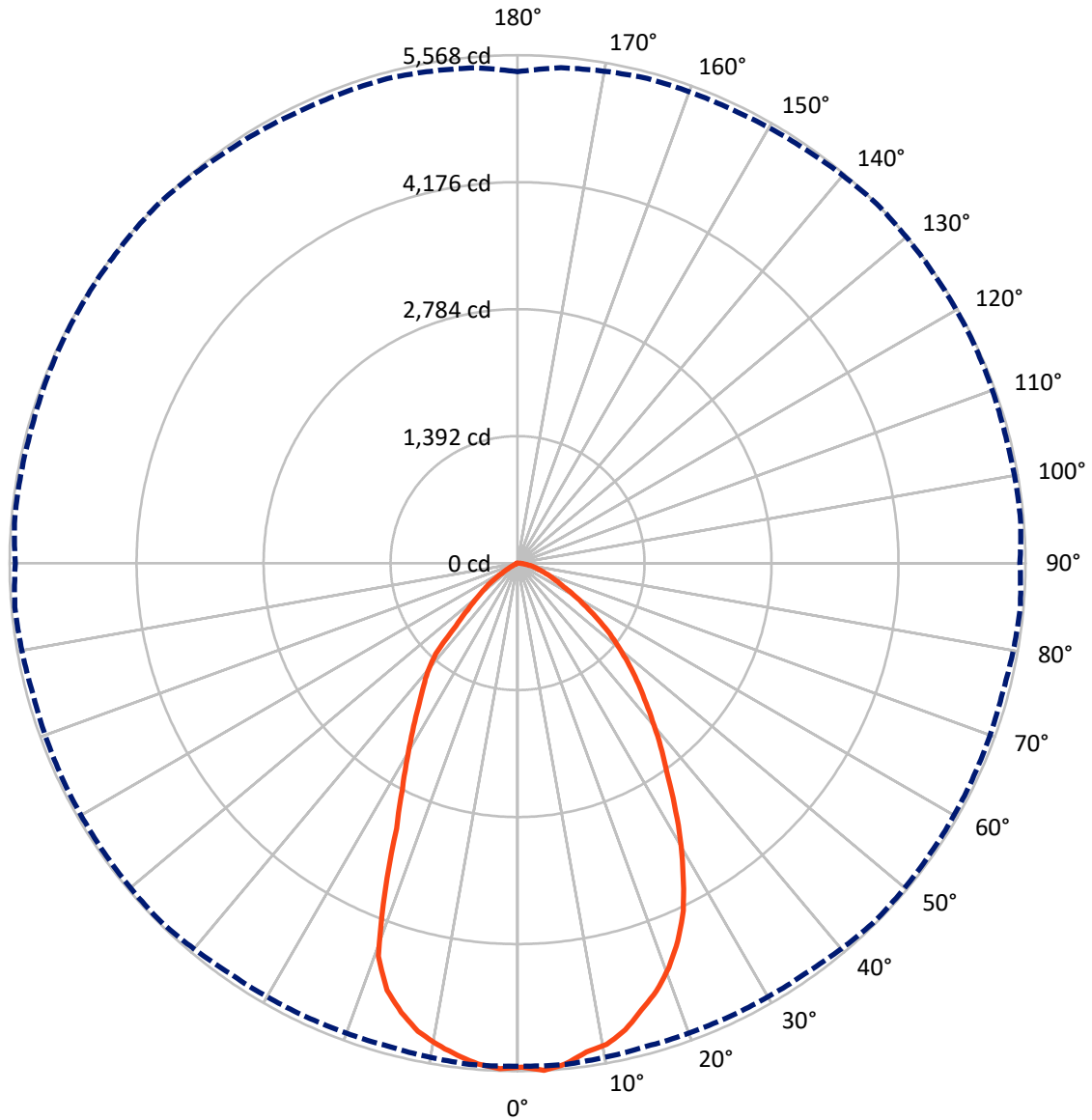
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.8 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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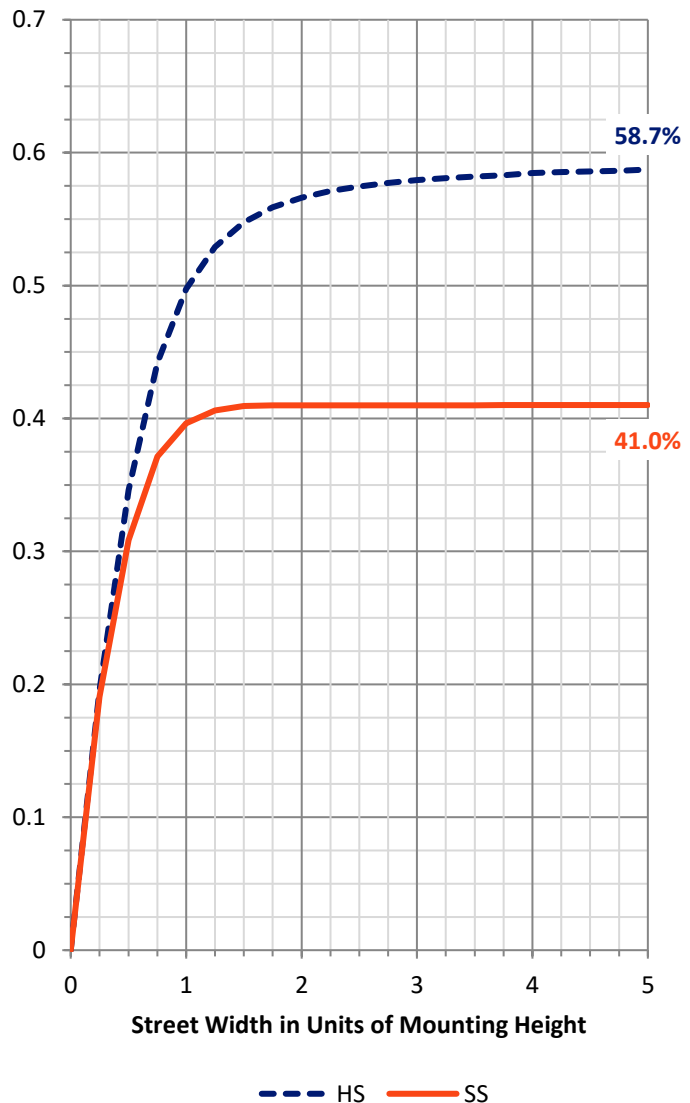
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4299.3	0.0	4299.3
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	2960.0	0.0	2960.0
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	7259.3	0.0	7259.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	518.1	7.1
10°-20°	1389.3	19.1
20°-30°	1694.3	23.3
30°-40°	1546.9	21.3
40°-50°	1117.9	15.4
50°-60°	610.4	8.4
60°-70°	252.4	3.5
70°-80°	102.2	1.4
80°-90°	27.8	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°	7259.3	100.0
0°-180°	7259.3	100.0



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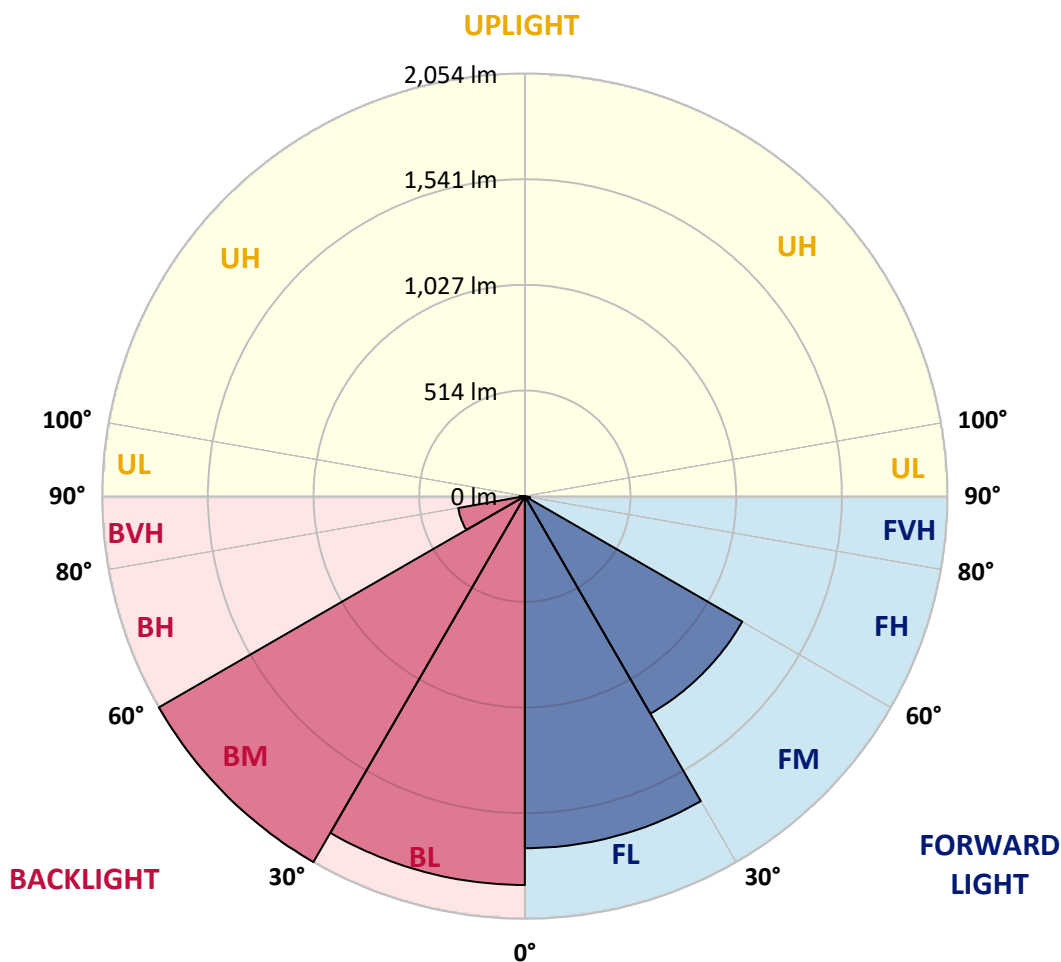
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1711.3	23.6			
FM (30°-60°)	1220.9	16.8			
FH (60°-80°)	25.6	0.4			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	1890.4	26.0	B3/2500		
BM (30°-60°)	2054.3	28.3	B2/2500		
BH (60°-80°)	329.0	4.5	B1/500		G1/500
BVH (80°-90°)	25.6	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°	5524.3	5524.3	5524.3	5524.3	5524.3	5524.3	5524.3	5524.3	5524.3	5524.3
2.5°	5514.1	5521.3	5482.4	5486.5	5493.7	5545.8	5532.5	5520.2	5502.9	5532.5
5°	5506.9	5511.0	5470.1	5455.8	5462.0	5509.0	5466.1	5466.1	5462.0	5456.9
7.5°	5451.7	5453.8	5422.1	5396.5	5412.9	5434.4	5402.7	5418.0	5395.5	5412.9
10°	5368.9	5355.7	5317.8	5310.7	5329.1	5349.5	5328.1	5342.4	5321.9	5335.2
12.5°	5247.3	5226.8	5196.2	5187.0	5218.7	5246.3	5228.9	5220.7	5194.1	5226.8
15°	4778.1	4762.7	4832.3	4953.9	5063.3	5086.8	5068.4	5076.6	5021.4	5030.6
17.5°	3932.7	3904.0	3978.7	4266.9	4677.9	4894.6	4878.3	4825.1	4743.3	4761.7
20°	3573.8	3565.7	3557.5	3626.0	3913.2	4570.6	4593.0	4458.1	4341.6	4316.0
22.5°	3371.4	3368.4	3360.2	3375.5	3451.2	3873.4	4131.0	4006.3	3928.6	3921.4
25°	3186.4	3181.3	3156.8	3176.2	3176.2	3200.7	3530.9	3606.6	3538.1	3529.9
27.5°	2998.3	2989.1	2985.0	2994.2	2947.2	2781.6	2865.4	3234.5	3198.7	3200.7
30°	2794.9	2791.8	2780.6	2800.0	2654.8	2449.3	2396.2	2897.1	2904.3	2902.2
32.5°	2492.3	2505.6	2556.7	2578.2	2338.9	2169.2	2080.3	2506.6	2652.8	2649.7
35°	1810.4	1810.4	1977.1	2286.8	2049.6	1921.9	1873.8	2125.3	2404.4	2414.6
37.5°	1488.4	1493.5	1526.2	1667.3	1768.5	1723.5	1709.2	1789.0	2085.4	2101.8
40°	1339.2	1339.2	1339.2	1280.9	1277.8	1552.8	1544.6	1519.1	1801.2	1837.0
42.5°	1203.2	1206.3	1208.3	1061.1	979.3	1342.2	1323.8	1285.0	1546.7	1588.6
45°	1063.2	1068.3	1074.4	887.3	851.5	966.0	1120.4	1077.5	1295.2	1349.4
47.5°	649.1	657.3	796.3	752.4	756.5	745.2	913.9	906.8	1062.1	1138.8
50°	438.6	441.6	454.9	477.4	649.1	585.8	647.1	750.3	806.6	923.1
52.5°	368.0	373.1	340.4	309.7	426.3	458.0	451.8	557.1	579.6	723.8
55°	258.6	275.0	259.7	256.6	242.3	355.7	342.5	428.3	442.6	550.0
57.5°	26.6	30.7	53.2	191.2	158.5	201.4	244.3	313.8	328.1	405.8
60°	2.0	2.0	5.1	26.6	115.5	120.6	168.7	193.2	220.8	283.2
62.5°	0.0	1.0	2.0	4.1	18.4	64.4	84.8	101.2	132.9	183.0
65°	0.0	0.0	1.0	3.1	4.1	24.5	32.7	53.2	72.6	113.5
67.5°	0.0	0.0	1.0	2.0	3.1	6.1	11.2	19.4	38.8	64.4
70°	0.0	0.0	1.0	2.0	3.1	5.1	8.2	12.3	17.4	34.8
72.5°	0.0	0.0	1.0	1.0	2.0	5.1	6.1	8.2	12.3	17.4
75°	0.0	0.0	1.0	1.0	3.1	6.1	5.1	6.1	8.2	11.2
77.5°	0.0	0.0	1.0	2.0	3.1	6.1	5.1	6.1	6.1	7.2
80°	0.0	0.0	1.0	2.0	4.1	7.2	6.1	6.1	5.1	5.1
82.5°	0.0	0.0	1.0	3.1	4.1	9.2	9.2	8.2	4.1	3.1
85°	0.0	0.0	2.0	4.1	6.1	10.2	10.2	8.2	3.1	2.0
87.5°	0.0	0.0	2.0	3.1	5.1	7.2	10.2	8.2	3.1	1.0
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°
5524.3	0°	5524.3	5524.3	5524.3	5524.3	5524.3	5524.3	5524.3	5524.3	5524.3
5506.9	2.5°	5534.5	5528.4	5548.9	5557.0	5568.3	5525.3	5498.8	5499.8	5450.7
5444.6	5°	5477.3	5478.3	5504.9	5502.9	5514.1	5490.6	5480.4	5463.0	5420.1
5365.9	7.5°	5404.7	5395.5	5421.1	5440.5	5411.9	5428.2	5404.7	5412.9	5387.3
5296.4	10°	5348.5	5327.0	5350.5	5363.8	5364.9	5348.5	5326.0	5304.5	5295.3
5188.0	12.5°	5223.8	5196.2	5236.0	5254.4	5251.4	5219.7	5194.1	5199.2	5169.6
4997.9	15°	5052.0	5053.1	5081.7	5099.1	5082.7	5075.6	5077.6	5065.3	5039.8
4735.1	17.5°	4789.3	4804.7	4880.3	4922.2	4931.4	4917.1	4909.9	4895.6	4870.1
4316.0	20°	4351.8	4443.8	4578.7	4708.6	4734.1	4730.0	4704.5	4698.3	4684.0
3901.0	22.5°	3967.4	4035.9	4192.3	4394.7	4499.0	4509.2	4478.5	4469.3	4454.0
3529.9	25°	3569.8	3643.4	3784.4	4004.2	4219.9	4263.9	4258.8	4231.2	4214.8
3200.7	27.5°	3234.5	3308.1	3435.8	3634.2	3865.2	4006.3	4019.6	3975.6	3974.6
2907.3	30°	2931.9	3033.1	3130.2	3291.7	3515.6	3727.2	3749.7	3719.0	3722.1
2638.5	32.5°	2694.7	2778.5	2861.3	2969.7	3155.7	3402.1	3490.0	3461.4	3450.1
2414.6	35°	2452.4	2509.7	2594.5	2693.7	2820.4	3064.8	3217.1	3195.6	3184.4
2112.0	37.5°	2176.4	2274.5	2335.9	2447.3	2546.5	2740.7	2955.4	2952.3	2928.8
1854.4	40°	1893.2	1996.5	2089.5	2202.0	2278.6	2433.0	2671.2	2670.2	2673.2
1587.6	42.5°	1636.6	1731.7	1844.2	1966.8	2040.4	2152.9	2408.5	2422.8	2440.1
1367.8	45°	1404.6	1490.5	1594.7	1744.0	1832.9	1897.3	2124.3	2189.7	2188.7
1171.5	47.5°	1196.1	1276.8	1364.7	1509.9	1623.4	1681.6	1869.7	1962.8	1956.6
960.9	50°	1003.9	1075.4	1167.4	1272.7	1425.0	1476.2	1616.2	1738.9	1729.7
765.7	52.5°	807.6	906.8	984.4	1080.5	1241.0	1291.1	1399.5	1519.1	1511.9
574.5	55°	629.7	725.8	819.9	902.7	1037.6	1112.2	1189.9	1312.6	1310.5
449.8	57.5°	476.4	581.7	670.6	749.3	856.7	948.7	1011.0	1122.4	1136.8
307.7	60°	352.7	433.4	529.5	617.4	702.3	797.4	839.3	948.7	954.8
210.6	62.5°	240.2	329.2	423.2	503.0	566.3	664.5	702.3	792.3	803.5
134.9	65°	166.6	223.9	331.2	388.5	466.2	550.0	587.8	659.4	681.9
77.7	67.5°	110.4	159.5	258.6	310.8	387.4	444.7	492.7	551.0	575.5
49.1	70°	60.3	117.6	185.0	245.3	311.8	367.0	414.0	461.0	482.5
22.5	72.5°	40.9	78.7	128.8	194.2	251.5	305.7	347.6	382.3	383.3
13.3	75°	20.4	53.2	98.1	150.3	196.3	249.4	287.3	307.7	283.2
8.2	77.5°	12.3	38.8	79.7	120.6	159.5	201.4	222.9	234.1	194.2
6.1	80°	7.2	27.6	62.4	96.1	110.4	148.2	168.7	171.7	129.8
4.1	82.5°	5.1	20.4	49.1	70.5	67.5	104.3	126.8	122.7	82.8
3.1	85°	3.1	14.3	30.7	44.0	40.9	68.5	73.6	75.6	48.0
2.0	87.5°	2.0	8.2	16.4	23.5	19.4	29.6	29.6	35.8	23.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
5524.3
5387.3
5409.8
5344.4
5254.4
5144.0
5014.2
4858.8
4651.3
4449.9
4197.4
3972.5
3706.7
3451.2
3169.0
2948.2
2673.2
2430.9
2190.7
1958.7
1737.9
1527.3
1315.7
1130.6
964.0
805.5
676.7
572.5
474.3
374.1
264.8
187.1
121.6
76.7
44.0
20.4
0.0

(END OF REPORT)