

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: P636802

Luminaire Tested: **IFLD-S-SA3C-940-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636802  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-940-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (48) 4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11773.2 lumens  
Efficiency: N/A  
Efficacy: 73.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

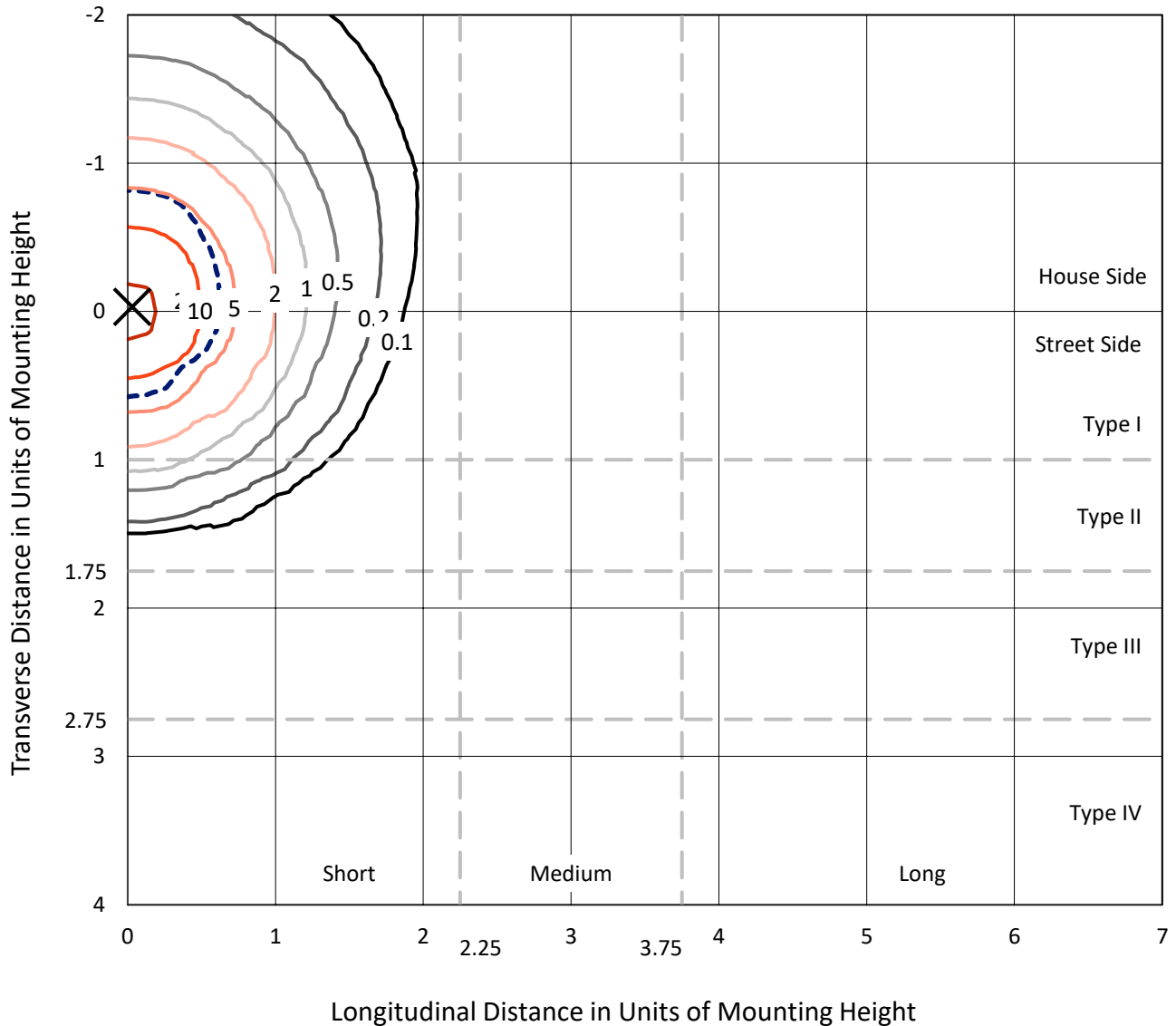
Input Watts (W): 160.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

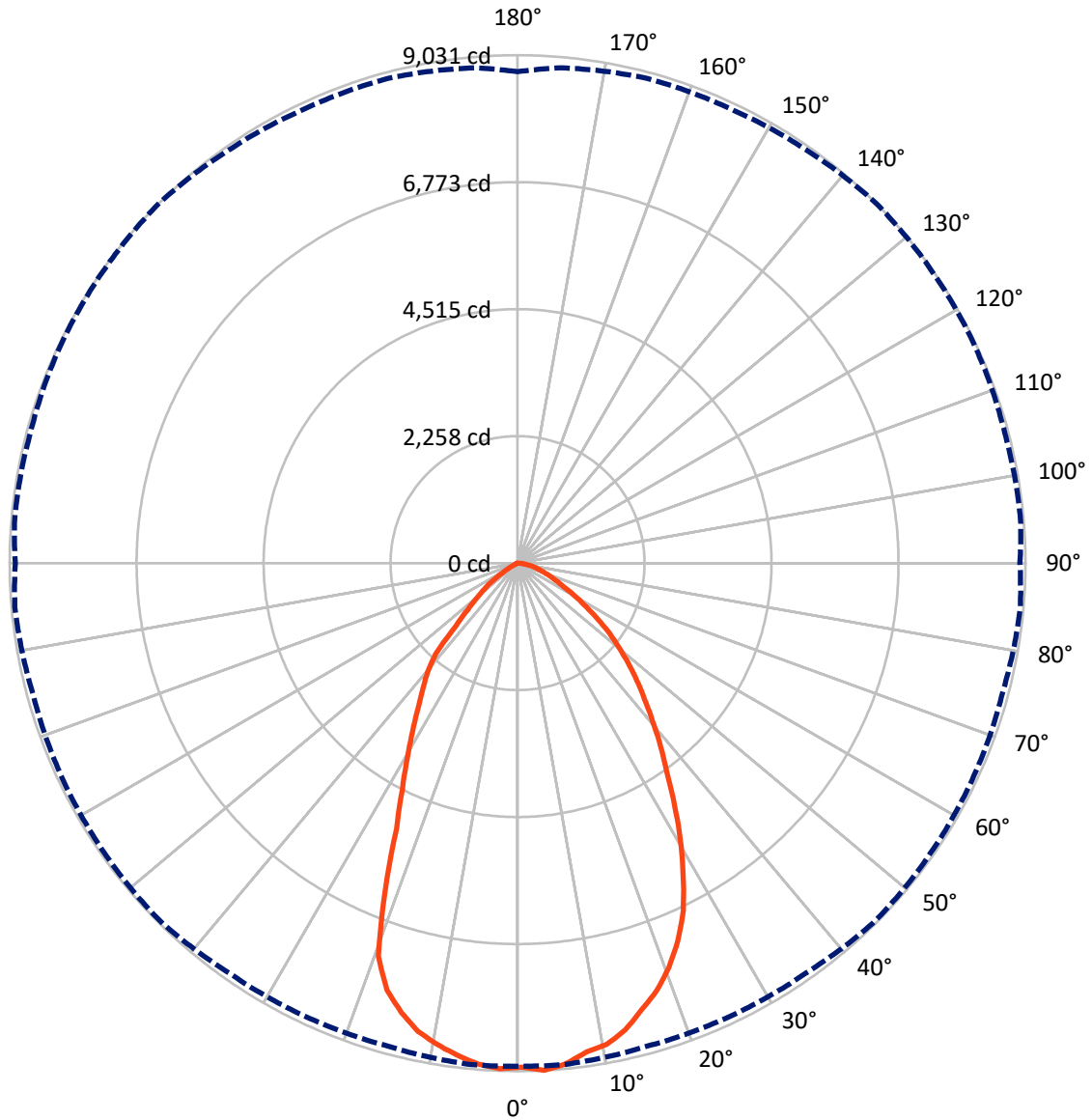
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.4 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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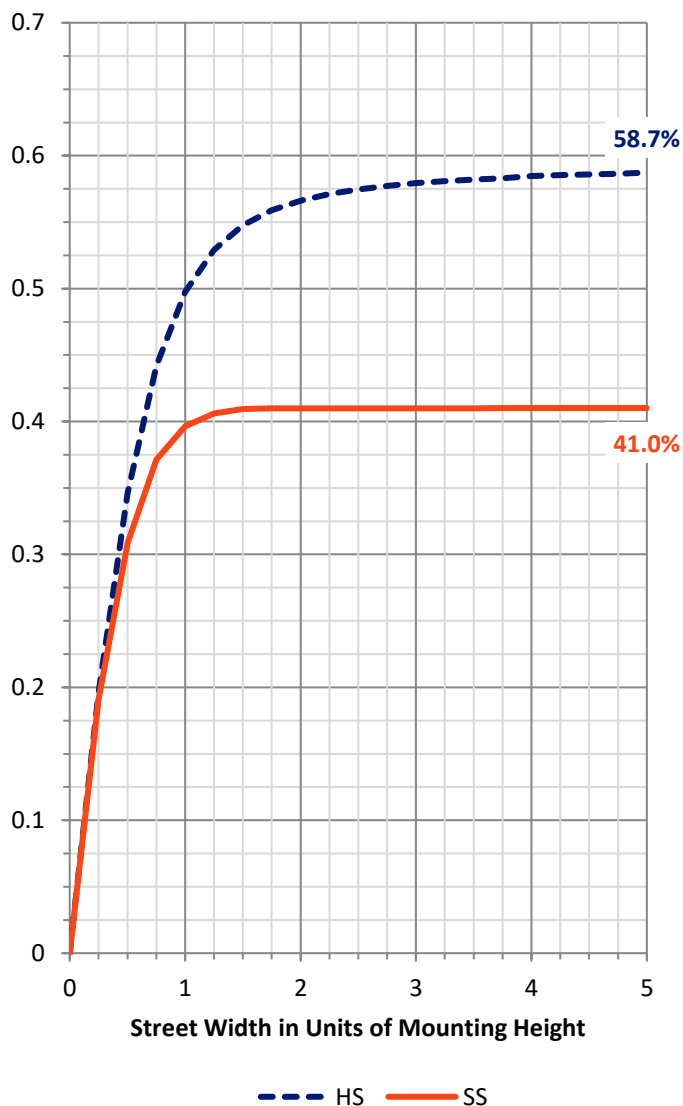
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6972.7	0.0	6972.7
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	4800.5	0.0	4800.5
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	11773.2	0.0	11773.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	840.2	7.1
10°-20°	2253.2	19.1
20°-30°	2747.9	23.3
30°-40°	2508.8	21.3
40°-50°	1813.0	15.4
50°-60°	989.9	8.4
60°-70°	409.3	3.5
70°-80°	165.8	1.4
80°-90°	45.1	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°	11773.2	100.0
0°-180°	11773.2	100.0



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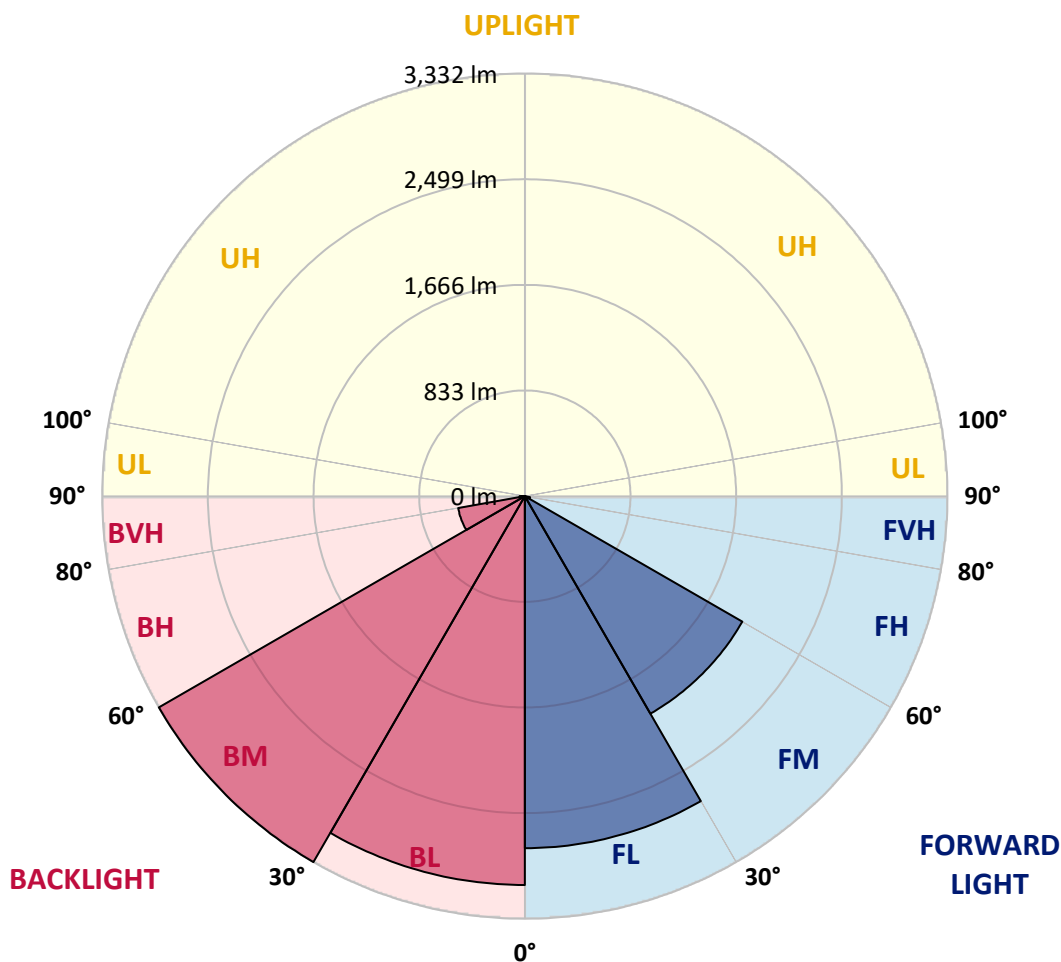
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2775.4	23.6			
FM (30°-60°)	1980.0	16.8			
FH (60°-80°)	41.5	0.4			G0/660
FVH (80°-90°)	3.6	0.0			G0/10
BL (0°-30°)	3065.9	26.0	B4/5000		
BM (30°-60°)	3331.7	28.3	B3/5000		
BH (60°-80°)	533.6	4.5	B2/1000		G2/1000
BVH (80°-90°)	41.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8959.4	8959.4	8959.4	8959.4	8959.4	8959.4	8959.4	8959.4	8959.4	8959.4
2.5°	8942.8	8954.4	8891.4	8898.0	8909.6	8994.2	8972.6	8952.7	8924.6	8972.6
5°	8931.2	8937.8	8871.5	8848.3	8858.2	8934.5	8864.9	8864.9	8858.2	8850.0
7.5°	8841.7	8845.0	8793.6	8752.1	8778.7	8813.5	8762.1	8787.0	8750.5	8778.7
10°	8707.4	8685.8	8624.5	8612.9	8642.7	8675.9	8641.1	8664.3	8631.1	8652.7
12.5°	8510.1	8476.9	8427.2	8412.3	8463.7	8508.4	8480.2	8467.0	8423.9	8476.9
15°	7749.1	7724.2	7837.0	8034.3	8211.7	8249.8	8219.9	8233.2	8143.7	8158.6
17.5°	6378.0	6331.6	6452.6	6920.1	7586.6	7938.1	7911.6	7825.4	7692.7	7722.6
20°	5796.1	5782.8	5769.5	5880.6	6346.5	7412.5	7449.0	7230.2	7041.2	6999.7
22.5°	5467.8	5462.8	5449.6	5474.4	5597.1	6281.8	6699.6	6497.4	6371.4	6359.8
25°	5167.7	5159.4	5119.6	5151.1	5151.1	5190.9	5726.4	5849.1	5738.0	5724.8
27.5°	4862.7	4847.7	4841.1	4856.0	4779.8	4511.2	4647.1	5245.6	5187.6	5190.9
30°	4532.7	4527.8	4509.5	4541.0	4305.6	3972.4	3886.2	4698.5	4710.1	4706.8
32.5°	4042.0	4063.6	4146.4	4181.3	3793.3	3518.1	3373.9	4065.2	4302.3	4297.3
35°	2936.2	2936.2	3206.4	3708.8	3324.1	3116.9	3039.0	3446.8	3899.4	3916.0
37.5°	2413.9	2422.2	2475.3	2704.1	2868.2	2795.2	2772.0	2901.4	3382.1	3408.7
40°	2171.9	2171.9	2171.9	2077.4	2072.4	2518.4	2505.1	2463.7	2921.2	2979.3
42.5°	1951.4	1956.3	1959.7	1720.9	1588.3	2176.8	2147.0	2084.0	2508.4	2576.4
45°	1724.2	1732.5	1742.5	1439.1	1381.0	1566.7	1817.1	1747.4	2100.6	2188.4
47.5°	1052.8	1066.0	1291.5	1220.2	1226.9	1208.6	1482.2	1470.6	1722.6	1846.9
50°	711.2	716.2	737.8	774.2	1052.8	950.0	1049.5	1216.9	1308.1	1497.1
52.5°	596.8	605.1	552.1	502.3	691.4	742.7	732.8	903.6	940.0	1173.8
55°	419.5	446.0	421.1	416.1	392.9	577.0	555.4	694.7	717.9	892.0
57.5°	43.1	49.7	86.2	310.0	257.0	326.6	396.2	509.0	532.2	658.2
60°	3.3	3.3	8.3	43.1	187.3	195.6	273.6	313.3	358.1	459.2
62.5°	0.0	1.7	3.3	6.6	29.8	104.4	137.6	164.1	215.5	296.8
65°	0.0	0.0	1.7	5.0	6.6	39.8	53.1	86.2	117.7	184.0
67.5°	0.0	0.0	1.7	3.3	5.0	9.9	18.2	31.5	63.0	104.4
70°	0.0	0.0	1.7	3.3	5.0	8.3	13.3	19.9	28.2	56.4
72.5°	0.0	0.0	1.7	1.7	3.3	8.3	9.9	13.3	19.9	28.2
75°	0.0	0.0	1.7	1.7	5.0	9.9	8.3	9.9	13.3	18.2
77.5°	0.0	0.0	1.7	3.3	5.0	9.9	8.3	9.9	9.9	11.6
80°	0.0	0.0	1.7	3.3	6.6	11.6	9.9	9.9	8.3	8.3
82.5°	0.0	0.0	1.7	5.0	6.6	14.9	14.9	13.3	6.6	5.0
85°	0.0	0.0	3.3	6.6	9.9	16.6	16.6	13.3	5.0	3.3
87.5°	0.0	0.0	3.3	5.0	8.3	11.6	16.6	13.3	5.0	1.7
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°
8959.4	0°	8959.4	8959.4	8959.4	8959.4	8959.4	8959.4	8959.4	8959.4	8959.4
8931.2	2.5°	8976.0	8966.0	8999.2	9012.4	9030.7	8961.0	8917.9	8919.6	8840.0
8830.1	5°	8883.1	8884.8	8927.9	8924.6	8942.8	8904.7	8888.1	8859.9	8790.3
8702.4	7.5°	8765.4	8750.5	8791.9	8823.4	8777.0	8803.5	8765.4	8778.7	8737.2
8589.7	10°	8674.2	8639.4	8677.5	8699.1	8700.7	8674.2	8637.7	8602.9	8588.0
8413.9	12.5°	8471.9	8427.2	8491.8	8521.7	8516.7	8465.3	8423.9	8432.2	8384.1
8105.5	15°	8193.4	8195.1	8241.5	8269.7	8243.2	8231.6	8234.9	8215.0	8173.5
7679.5	17.5°	7767.3	7792.2	7914.9	7982.9	7997.8	7974.6	7963.0	7939.8	7898.3
6999.7	20°	7057.7	7207.0	7425.8	7636.4	7677.8	7671.2	7629.7	7619.8	7596.6
6326.6	22.5°	6434.4	6545.5	6799.1	7127.4	7296.5	7313.1	7263.3	7248.4	7223.5
5724.8	25°	5789.4	5908.8	6137.6	6494.1	6843.9	6915.2	6906.9	6862.1	6835.6
5190.9	27.5°	5245.6	5365.0	5572.3	5893.9	6268.6	6497.4	6518.9	6447.6	6446.0
4715.1	30°	4754.9	4919.0	5076.5	5338.5	5701.6	6044.8	6081.2	6031.5	6036.5
4279.1	32.5°	4370.3	4506.2	4640.5	4816.2	5118.0	5517.5	5660.1	5613.7	5595.5
3916.0	35°	3977.3	4070.2	4207.8	4368.6	4574.2	4970.4	5217.5	5182.6	5164.4
3425.3	37.5°	3529.7	3688.9	3788.3	3969.1	4129.9	4444.9	4793.0	4788.1	4749.9
3007.5	40°	3070.5	3237.9	3388.8	3571.2	3695.5	3945.8	4332.1	4330.5	4335.4
2574.7	42.5°	2654.3	2808.5	2990.9	3189.8	3309.2	3491.6	3906.0	3929.3	3957.4
2218.3	45°	2278.0	2417.2	2586.3	2828.4	2972.6	3077.1	3445.1	3551.3	3549.6
1900.0	47.5°	1939.8	2070.7	2213.3	2448.7	2632.8	2727.3	3032.3	3183.2	3173.3
1558.4	50°	1628.1	1744.1	1893.3	2064.1	2311.1	2394.0	2621.2	2820.1	2805.2
1241.8	52.5°	1309.8	1470.6	1596.6	1752.4	2012.7	2093.9	2269.7	2463.7	2452.1
931.7	55°	1021.3	1177.1	1329.6	1463.9	1682.8	1803.8	1929.8	2128.8	2125.4
729.5	57.5°	772.6	943.4	1087.6	1215.3	1389.3	1538.5	1639.7	1820.4	1843.6
499.0	60°	572.0	703.0	858.8	1001.4	1139.0	1293.2	1361.1	1538.5	1548.5
341.5	62.5°	389.6	533.8	686.4	815.7	918.5	1077.6	1139.0	1284.9	1303.1
218.8	65°	270.2	363.1	537.2	630.0	756.0	892.0	953.3	1069.4	1105.8
126.0	67.5°	179.1	258.6	419.5	504.0	628.4	721.2	799.1	893.6	933.4
79.6	70°	97.8	190.7	300.1	397.9	505.7	595.2	671.5	747.7	782.5
36.5	72.5°	66.3	127.7	208.9	315.0	407.8	495.7	563.7	620.1	621.7
21.6	75°	33.2	86.2	159.2	243.7	318.3	404.5	465.9	499.0	459.2
13.3	77.5°	19.9	63.0	129.3	195.6	258.6	326.6	361.4	379.7	315.0
9.9	80°	11.6	44.8	101.1	155.8	179.1	240.4	273.6	278.5	210.6
6.6	82.5°	8.3	33.2	79.6	114.4	109.4	169.1	205.6	198.9	134.3
5.0	85°	5.0	23.2	49.7	71.3	66.3	111.1	119.4	122.7	77.9
3.3	87.5°	3.3	13.3	26.5	38.1	31.5	48.1	48.1	58.0	38.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
8959.4
8737.2
8773.7
8667.6
8521.7
8342.6
8132.1
7880.1
7543.5
7216.9
6807.4
6442.7
6011.6
5597.1
5139.5
4781.4
4335.4
3942.5
3552.9
3176.6
2818.5
2476.9
2133.7
1833.7
1563.4
1306.4
1097.5
928.4
769.3
606.8
429.4
303.4
197.3
124.3
71.3
33.2
0.0

(END OF REPORT)