

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: P637875

Luminaire Tested: **IFLD-S-SA3C-735-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637875  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-735-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (48) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17616.2 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G1

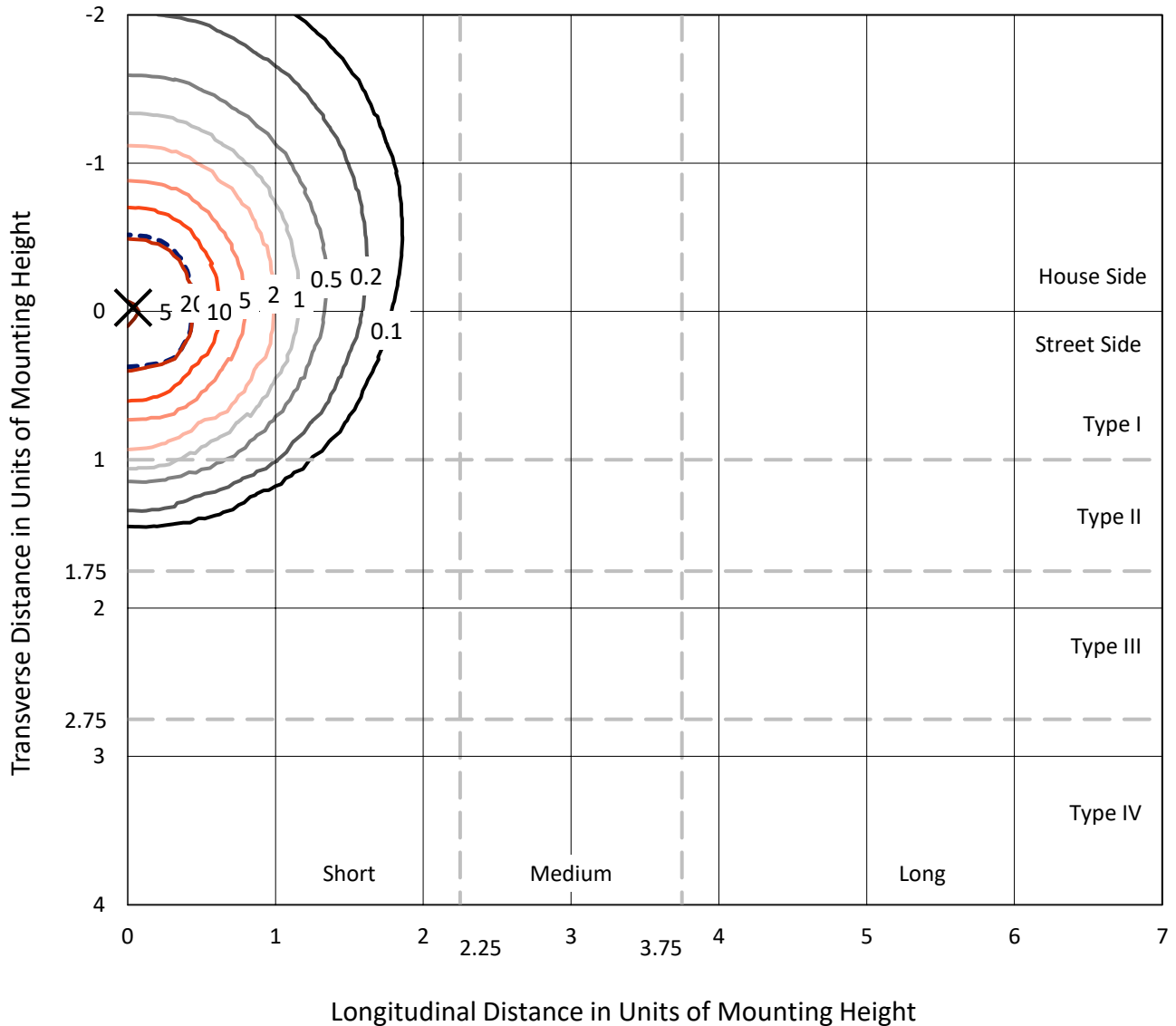
Input Watts (W): 160.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

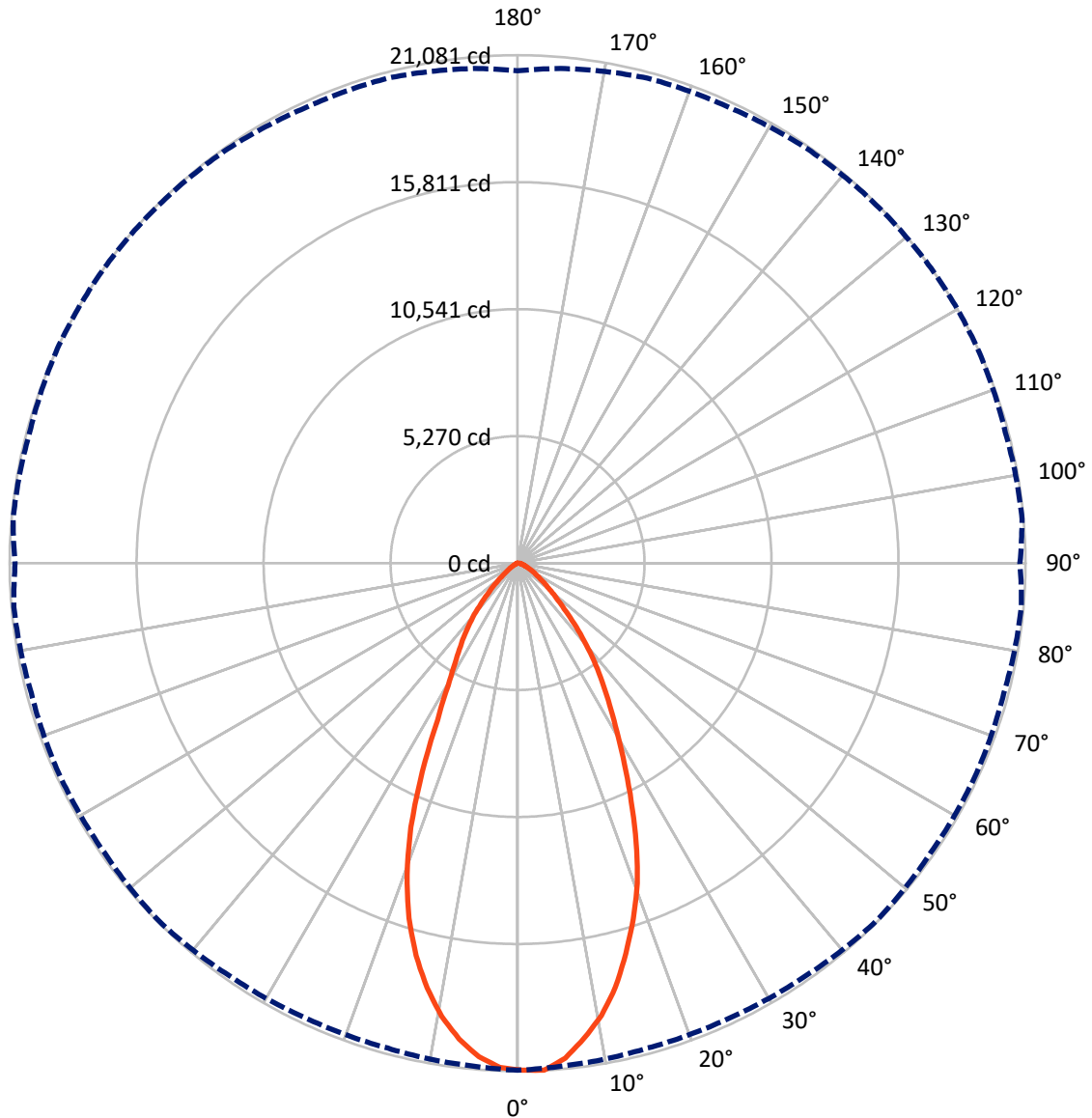
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 52.6 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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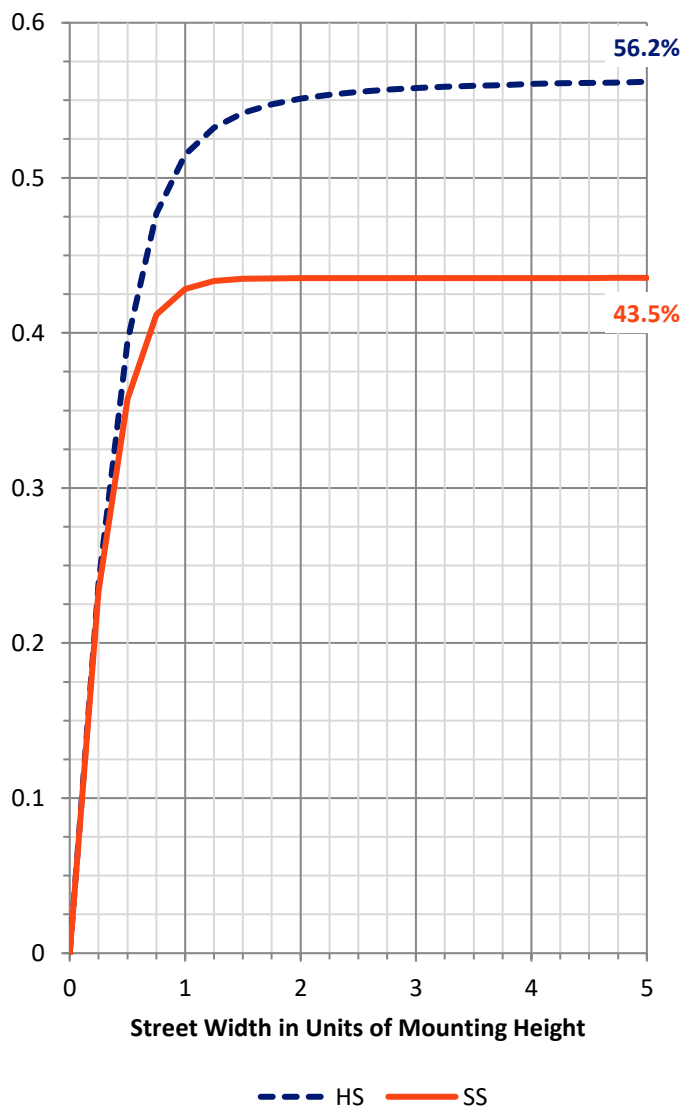
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9996.1	0.0	9996.1
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	7620.1	0.0	7620.1
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	17616.2	0.0	17616.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1911.2	10.8
10°-20°	4555.8	25.9
20°-30°	4640.0	26.3
30°-40°	3460.0	19.6
40°-50°	1807.6	10.3
50°-60°	760.3	4.3
60°-70°	310.5	1.8
70°-80°	130.7	0.7
80°-90°	40.3	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°	17616.2	100.0
0°-180°	17616.2	100.0



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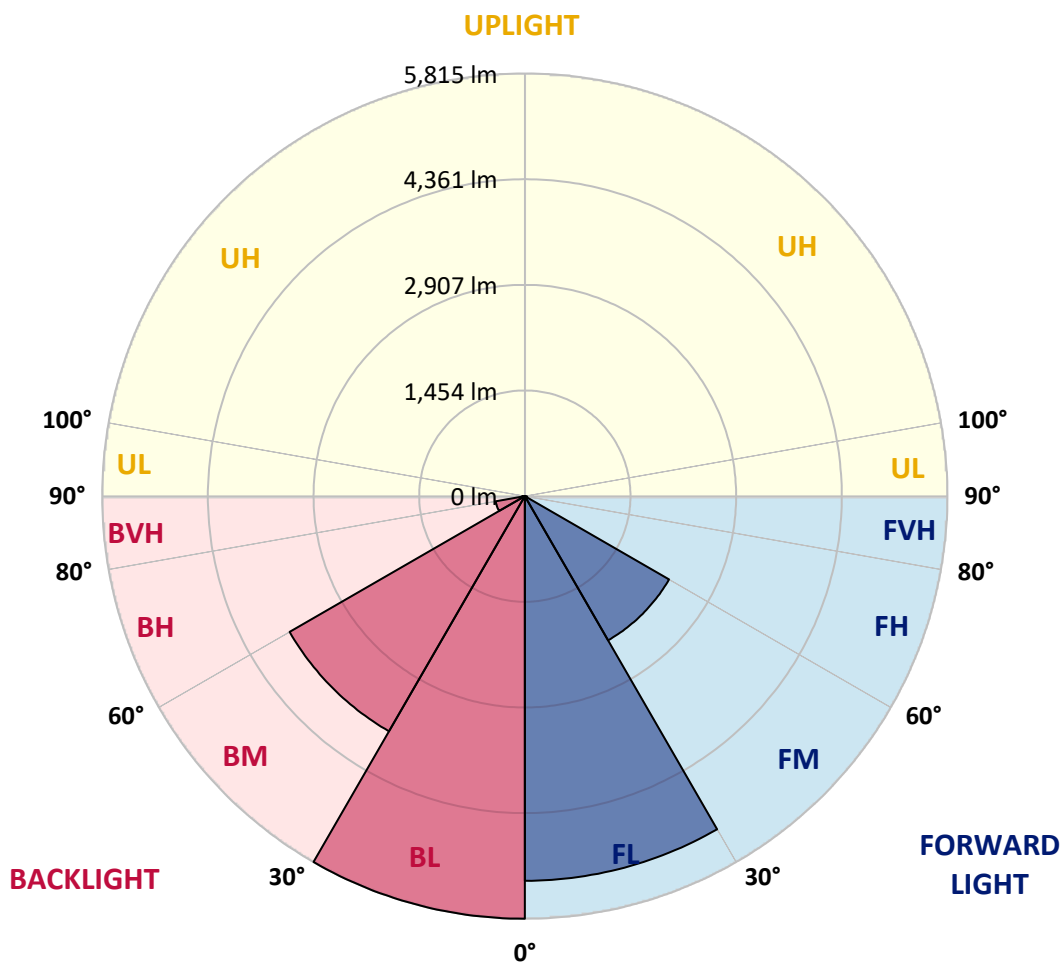
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5292.1	30.0			
FM (30°-60°)	2291.1	13.0			
FH (60°-80°)	33.2	0.2			G0/660
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	5814.8	33.0	B5		
BM (30°-60°)	3736.8	21.2	B3/5000		
BH (60°-80°)	408.0	2.3	B1/500		G1/500
BVH (80°-90°)	36.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	21047.1	21047.1	21047.1	21047.1	21047.1	21047.1	21047.1	21047.1	21047.1	21047.1
2.5°	21049.4	20963.4	20841.2	20829.9	20893.2	21031.3	20943.0	20947.5	20893.2	20986.0
5°	20719.0	20637.5	20553.8	20442.9	20535.7	20594.5	20549.3	20499.5	20429.3	20519.9
7.5°	20094.4	20049.2	19924.7	19874.9	19931.5	19997.1	19899.8	19886.2	19788.9	19906.6
10°	19139.5	19121.4	18999.2	18969.8	19019.6	19119.1	19076.1	19067.1	19006.0	18994.7
12.5°	18148.3	18078.2	17926.6	17917.5	17992.2	18141.6	18026.2	17915.3	17949.2	17978.6
15°	15595.8	15521.1	15896.8	16487.4	16797.4	16786.1	16820.0	16686.5	16645.8	16659.4
17.5°	12398.4	12271.6	12407.4	13321.6	14794.8	15650.1	15414.8	15127.4	14973.5	14871.7
20°	10701.2	10708.0	10683.1	10918.4	11837.2	13787.8	13731.2	13176.8	12975.4	12891.7
22.5°	9669.3	9630.8	9576.5	9651.2	9897.9	11042.9	11810.0	11300.9	11230.7	11137.9
25°	8657.8	8657.8	8592.2	8666.9	8737.0	8752.8	9522.2	9730.4	9594.6	9594.6
27.5°	7782.1	7736.8	7707.4	7741.3	7648.6	7202.8	7300.1	8365.9	8273.1	8216.5
30°	6913.1	6899.5	6849.8	6895.0	6551.1	6048.7	5845.0	7060.2	7157.5	7137.1
32.5°	5707.0	5761.3	5983.1	6053.2	5464.9	5059.8	4865.2	5860.9	6250.1	6234.3
35°	3878.6	3923.8	4177.3	5014.6	4530.3	4240.6	4184.1	4661.5	5301.9	5363.0
37.5°	3088.8	3082.1	3154.5	3303.8	3641.0	3570.8	3555.0	3679.5	4324.4	4351.5
40°	2545.7	2536.7	2534.4	2412.2	2328.5	2968.9	2925.9	2851.2	3410.2	3464.5
42.5°	2052.4	2061.5	2068.3	1801.3	1679.1	2290.0	2265.1	2188.2	2674.7	2738.1
45°	1611.2	1608.9	1622.5	1341.9	1307.9	1464.1	1692.6	1631.5	2018.5	2086.4
47.5°	835.0	864.4	1047.7	1038.7	1054.5	1038.7	1280.8	1265.0	1518.4	1627.0
50°	561.2	570.2	586.1	588.4	830.5	764.9	868.9	984.4	1063.6	1231.0
52.5°	434.5	441.3	400.5	375.6	509.1	565.7	570.2	681.1	742.2	911.9
55°	242.1	271.5	291.9	294.2	280.6	418.6	416.4	504.6	552.1	665.3
57.5°	31.7	38.5	58.8	190.1	187.8	233.1	291.9	366.6	393.7	486.5
60°	2.3	4.5	6.8	29.4	124.5	135.8	199.1	228.6	273.8	341.7
62.5°	0.0	0.0	2.3	6.8	24.9	79.2	104.1	119.9	160.7	224.0
65°	0.0	0.0	2.3	4.5	9.1	29.4	40.7	65.6	95.0	138.0
67.5°	0.0	0.0	2.3	4.5	6.8	11.3	18.1	29.4	49.8	83.7
70°	0.0	0.0	2.3	4.5	6.8	9.1	13.6	18.1	27.2	45.3
72.5°	0.0	0.0	2.3	2.3	4.5	11.3	11.3	13.6	18.1	24.9
75°	0.0	0.0	2.3	4.5	6.8	11.3	11.3	11.3	13.6	15.8
77.5°	0.0	0.0	2.3	4.5	6.8	11.3	9.1	11.3	11.3	11.3
80°	0.0	0.0	2.3	4.5	6.8	11.3	13.6	11.3	9.1	9.1
82.5°	0.0	0.0	2.3	6.8	6.8	15.8	15.8	15.8	6.8	6.8
85°	0.0	0.0	4.5	6.8	11.3	18.1	18.1	13.6	6.8	4.5
87.5°	0.0	0.0	2.3	4.5	4.5	9.1	13.6	11.3	4.5	2.3
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°
21047.1	0°	21047.1	21047.1	21047.1	21047.1	21047.1	21047.1	21047.1	21047.1	21047.1
20850.2	2.5°	21017.7	20961.1	21067.5	21081.0	21035.8	20979.2	20848.0	20836.7	20608.1
20388.6	5°	20619.4	20526.6	20594.5	20639.8	20623.9	20562.8	20508.5	20458.8	20252.8
19639.6	7.5°	19877.2	19843.3	19874.9	19908.9	19974.5	19908.9	19886.2	19834.2	19630.5
18901.9	10°	19053.5	18990.1	19110.1	19094.2	19076.1	19058.0	18963.0	18972.0	18732.2
17897.2	12.5°	18042.0	17935.6	18051.0	18064.6	18051.0	17987.7	17881.3	17926.6	17707.1
16539.4	15°	16682.0	16670.7	16754.4	16808.7	16847.2	16779.3	16743.1	16765.7	16634.5
14792.5	17.5°	15012.0	15159.1	15432.9	15525.7	15527.9	15598.1	15577.7	15550.6	15453.3
12857.7	20°	13047.8	13330.7	13751.6	14183.8	14308.2	14249.4	14222.2	14272.0	14127.2
11040.6	22.5°	11235.2	11477.4	11966.1	12597.5	12961.8	12998.0	12991.2	12948.2	12891.7
9585.6	25°	9696.5	9911.4	10379.9	10956.9	11656.1	11760.2	11764.7	11751.2	11701.4
8266.3	27.5°	8397.6	8657.8	8915.8	9431.7	10176.2	10606.1	10551.8	10536.0	10517.9
7153.0	30°	7220.9	7549.0	7791.1	8112.4	8780.0	9361.6	9418.1	9391.0	9348.0
6232.0	32.5°	6288.6	6483.2	6790.9	7008.2	7487.9	8146.4	8363.6	8343.3	8304.8
5401.5	35°	5478.4	5555.4	5797.5	6039.6	6358.7	6996.8	7318.2	7272.9	7266.1
4401.3	37.5°	4512.2	4770.2	4903.7	5148.1	5372.1	5867.7	6311.2	6290.8	6293.1
3539.2	40°	3643.2	3792.6	4057.4	4263.3	4469.2	4831.3	5324.6	5338.1	5333.6
2740.4	42.5°	2796.9	2941.8	3220.1	3444.1	3627.4	3851.4	4322.1	4338.0	4358.3
2133.9	45°	2183.7	2276.5	2480.1	2713.2	2907.8	3043.6	3401.1	3502.9	3505.2
1654.2	47.5°	1694.9	1801.3	1946.1	2170.1	2360.2	2457.5	2717.7	2855.8	2849.0
1269.5	50°	1330.6	1427.9	1545.6	1722.1	1928.0	2004.9	2197.3	2333.0	2326.2
957.2	52.5°	1018.3	1142.8	1246.9	1382.6	1584.0	1649.6	1787.7	1943.8	1921.2
701.5	55°	771.6	898.4	995.7	1108.8	1292.1	1375.8	1470.9	1595.3	1599.9
543.1	57.5°	581.6	712.8	801.1	916.5	1054.5	1147.3	1219.7	1353.2	1350.9
371.1	60°	416.4	529.5	635.9	755.8	862.2	968.5	1018.3	1145.0	1149.5
262.5	62.5°	301.0	407.3	509.1	613.2	708.3	812.4	857.6	957.2	970.8
172.0	65°	210.4	285.1	402.8	482.0	588.4	665.3	724.1	810.1	826.0
101.8	67.5°	135.8	205.9	319.1	389.2	486.5	552.1	613.2	681.1	701.5
65.6	70°	81.5	156.1	237.6	312.3	400.5	459.4	518.2	577.0	588.4
31.7	72.5°	52.0	108.6	172.0	253.4	321.3	384.7	436.7	479.7	445.8
20.4	75°	29.4	74.7	135.8	199.1	260.2	321.3	364.3	387.0	310.0
13.6	77.5°	18.1	54.3	110.9	160.7	201.4	258.0	285.1	298.7	221.8
9.1	80°	11.3	40.7	92.8	131.2	131.2	190.1	221.8	233.1	160.7
6.8	82.5°	9.1	29.4	72.4	99.6	88.3	142.6	174.2	176.5	113.1
4.5	85°	6.8	22.6	45.3	65.6	61.1	99.6	101.8	113.1	74.7
4.5	87.5°	4.5	13.6	27.2	38.5	33.9	47.5	54.3	61.1	40.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
21047.1  
**20429.3**  
20087.6  
19587.5  
18650.7  
17643.7  
16476.1  
15308.4  
14023.1  
12783.0  
11533.9  
10411.5  
9293.7  
8203.0  
7191.5  
6220.7  
5254.4  
4290.4  
3446.4  
2824.1  
2326.2  
1923.5  
1599.9  
1346.4  
1138.2  
966.3  
821.4  
699.2  
579.3  
414.1  
294.2  
208.2  
149.4  
104.1  
67.9  
36.2  
0.0

(END OF REPORT)