

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: P638189

Luminaire Tested: **IFLD-S-SA2C-750-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638189
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-750-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11183.1 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

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



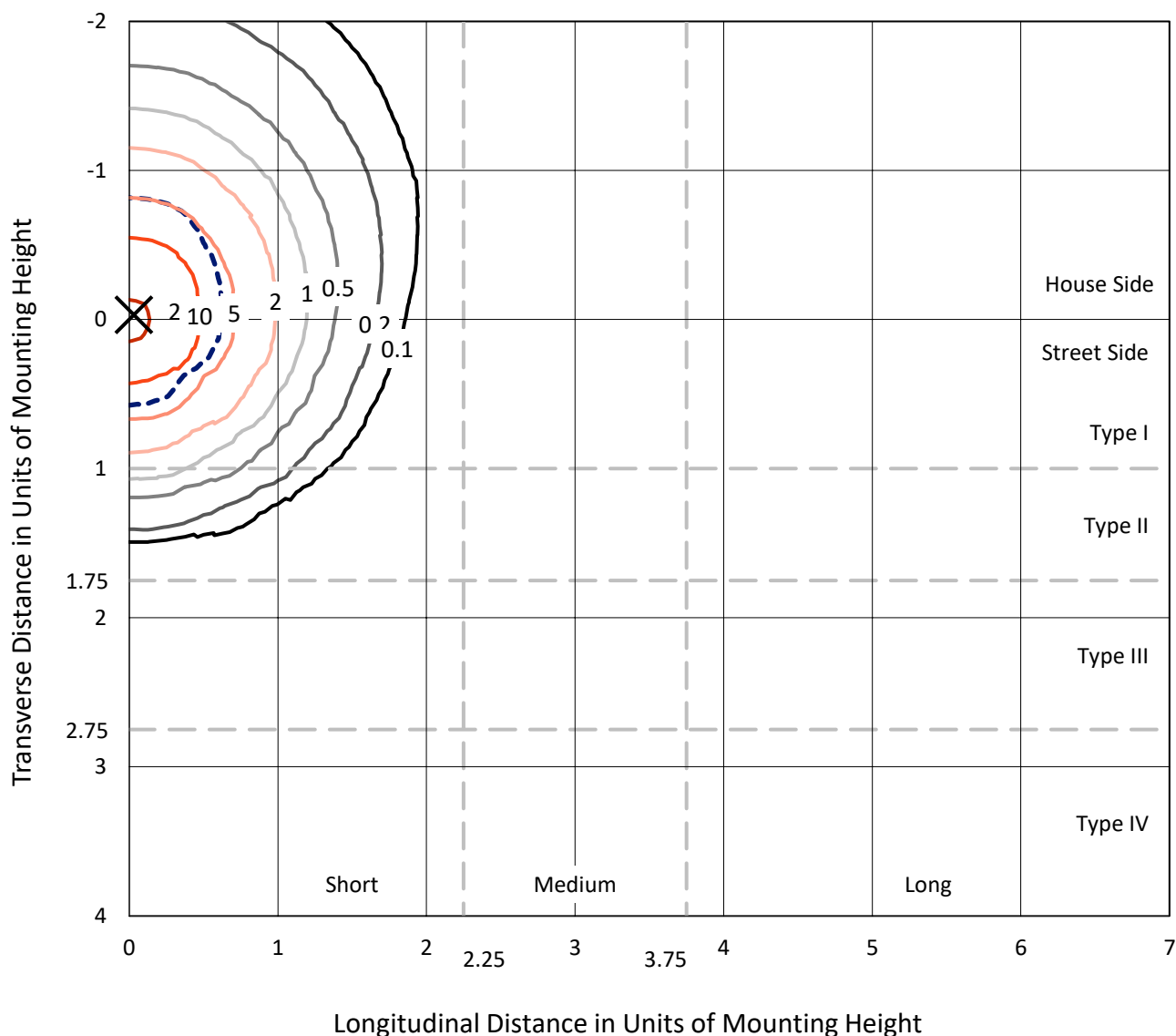
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

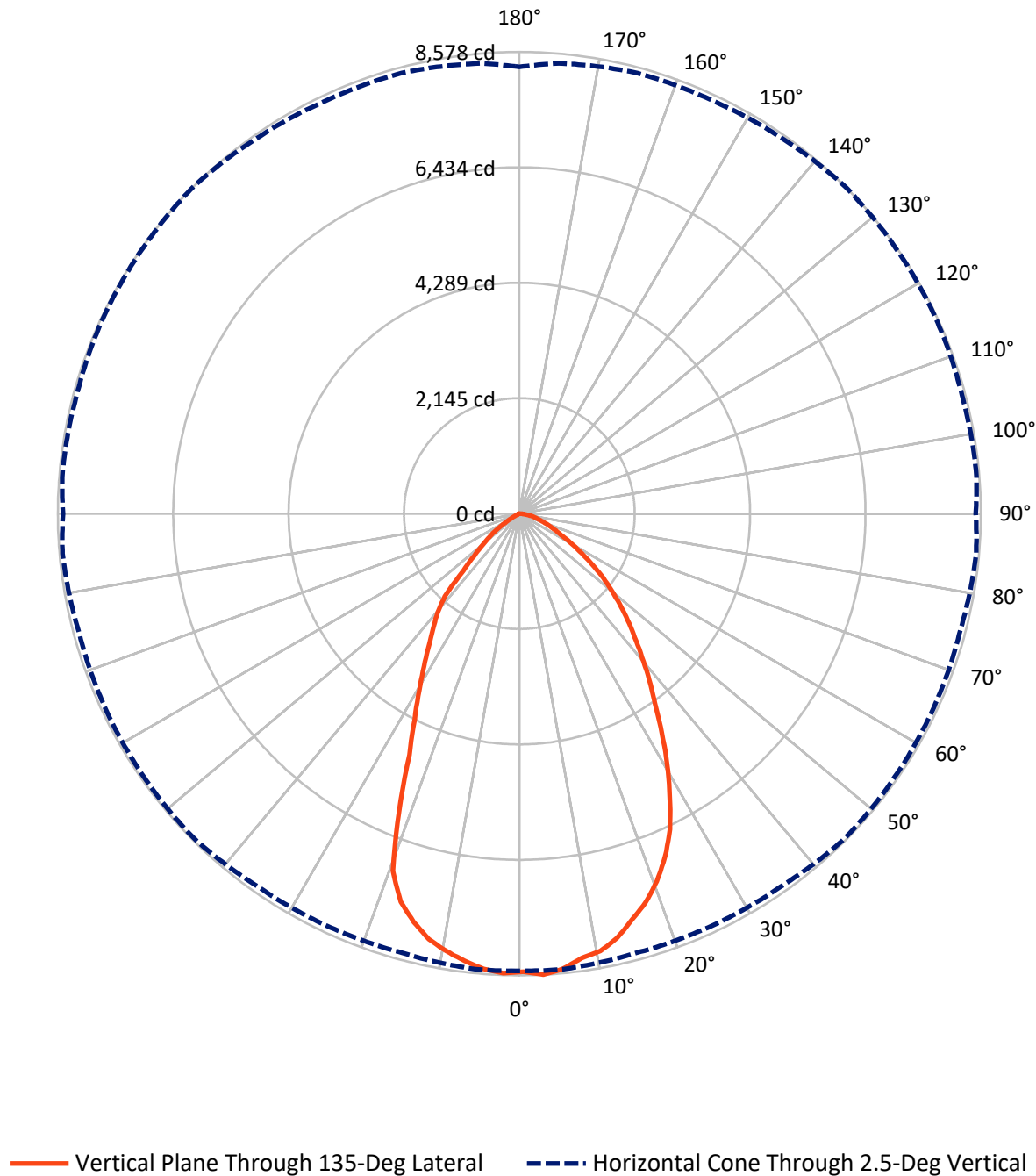


Based on 20 foot mounting height. Maximum calculated value = 21.3 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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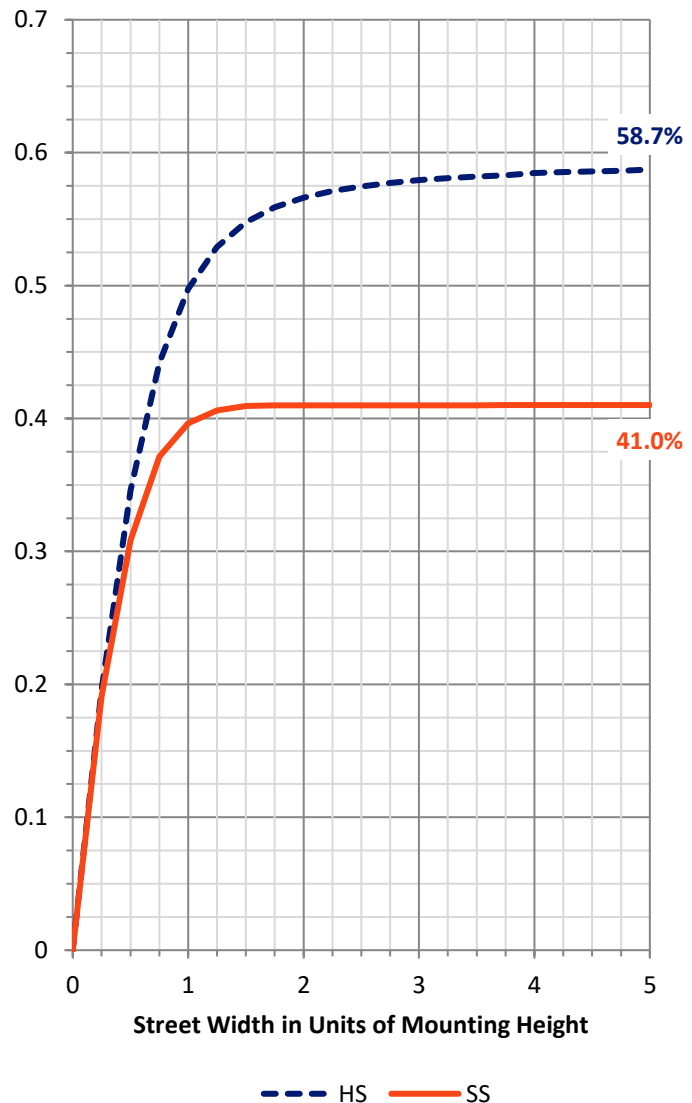
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6623.2	0.0	6623.2
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	4559.9	0.0	4559.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	11183.1	0.0	11183.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.1	7.1
10°-20°	2140.2	19.1
20°-30°	2610.1	23.3
30°-40°	2383.0	21.3
40°-50°	1722.2	15.4
50°-60°	940.3	8.4
60°-70°	388.8	3.5
70°-80°	157.5	1.4
80°-90°	42.8	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°	11183.1	100.0
0°-180°	11183.1	100.0

Coefficient of Utilization



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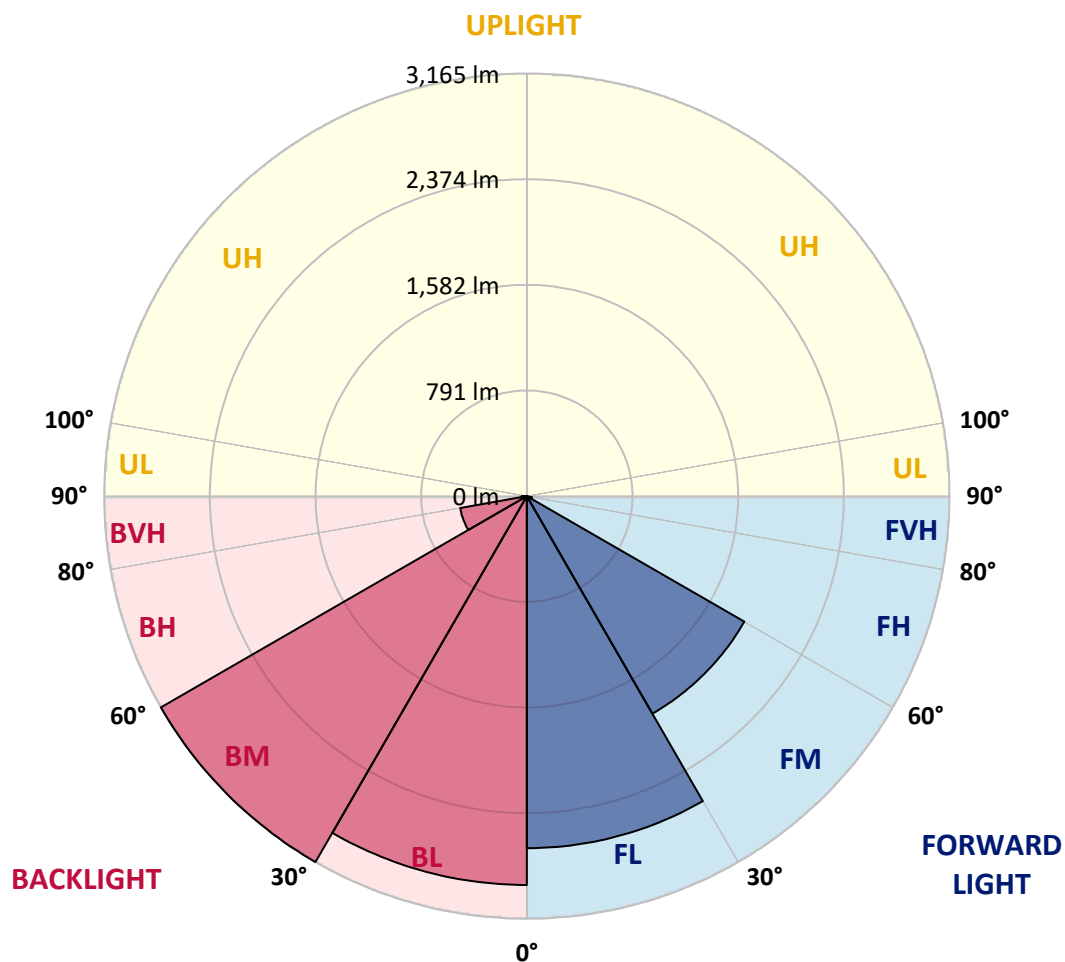
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2636.3	23.6			
FM	(30°-60°)	1880.8	16.8			
FH	(60°-80°)	39.4	0.4			G0/660
FVH	(80°-90°)	3.4	0.0			G0/10
BL	(0°-30°)	2912.2	26.0	B4/5000		
BM	(30°-60°)	3164.7	28.3	B3/5000		
BH	(60°-80°)	506.8	4.5	B2/1000		G2/1000
BVH	(80°-90°)	39.4	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°	8510.3	8510.3	8510.3	8510.3	8510.3	8510.3	8510.3	8510.3	8510.3	8510.3
2.5°	8494.5	8505.6	8445.7	8452.0	8463.0	8543.4	8522.9	8504.0	8477.2	8522.9
5°	8483.5	8489.8	8426.8	8404.8	8414.2	8486.7	8420.5	8420.5	8414.2	8406.4
7.5°	8398.5	8401.6	8352.8	8313.4	8338.6	8371.7	8322.9	8346.5	8311.9	8338.6
10°	8270.9	8250.4	8192.2	8181.2	8209.5	8241.0	8207.9	8230.0	8198.5	8219.0
12.5°	8083.5	8052.0	8004.8	7990.6	8039.4	8081.9	8055.2	8042.6	8001.6	8052.0
15°	7360.7	7337.1	7444.1	7631.5	7800.1	7836.3	7807.9	7820.5	7735.5	7749.7
17.5°	6058.3	6014.2	6129.2	6573.3	7206.3	7540.2	7515.0	7433.1	7307.1	7335.5
20°	5505.5	5492.9	5480.4	5585.9	6028.4	7041.0	7075.6	6867.8	6688.2	6648.9
22.5°	5193.7	5189.0	5176.4	5200.0	5316.6	5967.0	6363.8	6171.7	6052.0	6041.0
25°	4908.7	4900.8	4863.0	4892.9	4892.9	4930.7	5439.4	5555.9	5450.4	5437.8
27.5°	4618.9	4604.8	4598.5	4612.6	4540.2	4285.1	4414.2	4982.7	4927.6	4930.7
30°	4305.5	4300.8	4283.5	4313.4	4089.8	3773.3	3691.4	4463.0	4474.0	4470.9
32.5°	3839.4	3859.9	3938.6	3971.7	3603.2	3341.8	3204.7	3861.4	4086.6	4081.9
35°	2789.0	2789.0	3045.7	3522.9	3157.5	2960.6	2886.6	3274.0	3704.0	3719.7
37.5°	2292.9	2300.8	2351.2	2568.5	2724.4	2655.1	2633.1	2755.9	3212.6	3237.8
40°	2063.0	2063.0	2063.0	1973.2	1968.5	2392.1	2379.5	2340.2	2774.8	2829.9
42.5°	1853.6	1858.3	1861.4	1634.7	1508.7	2067.7	2039.4	1979.5	2382.7	2447.3
45°	1637.8	1645.7	1655.1	1366.9	1311.8	1488.2	1726.0	1659.9	1995.3	2078.8
47.5°	1000.0	1012.6	1226.8	1159.1	1165.4	1148.0	1407.9	1396.9	1636.2	1754.3
50°	675.6	680.3	700.8	735.4	1000.0	902.4	996.9	1155.9	1242.5	1422.1
52.5°	566.9	574.8	524.4	477.2	656.7	705.5	696.1	858.3	892.9	1115.0
55°	398.4	423.6	400.0	395.3	373.2	548.0	527.6	659.8	681.9	847.2
57.5°	40.9	47.2	81.9	294.5	244.1	310.2	376.4	483.5	505.5	625.2
60°	3.1	3.1	7.9	40.9	178.0	185.8	259.8	297.6	340.2	436.2
62.5°	0.0	1.6	3.1	6.3	28.3	99.2	130.7	155.9	204.7	281.9
65°	0.0	0.0	1.6	4.7	6.3	37.8	50.4	81.9	111.8	174.8
67.5°	0.0	0.0	1.6	3.1	4.7	9.4	17.3	29.9	59.8	99.2
70°	0.0	0.0	1.6	3.1	4.7	7.9	12.6	18.9	26.8	53.5
72.5°	0.0	0.0	1.6	1.6	3.1	7.9	9.4	12.6	18.9	26.8
75°	0.0	0.0	1.6	1.6	4.7	9.4	7.9	9.4	12.6	17.3
77.5°	0.0	0.0	1.6	3.1	4.7	9.4	7.9	9.4	9.4	11.0
80°	0.0	0.0	1.6	3.1	6.3	11.0	9.4	9.4	7.9	7.9
82.5°	0.0	0.0	1.6	4.7	6.3	14.2	14.2	12.6	6.3	4.7
85°	0.0	0.0	3.1	6.3	9.4	15.7	15.7	12.6	4.7	3.1
87.5°	0.0	0.0	3.1	4.7	7.9	11.0	15.7	12.6	4.7	1.6
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°
8510.3	0°	8510.3	8510.3	8510.3	8510.3	8510.3	8510.3	8510.3	8510.3	8510.3
8483.5	2.5°	8526.0	8516.6	8548.1	8560.7	8578.0	8511.9	8470.9	8472.5	8396.9
8387.5	5°	8437.9	8439.4	8480.4	8477.2	8494.5	8458.3	8442.6	8415.8	8349.7
8266.2	7.5°	8326.0	8311.9	8351.2	8381.2	8337.1	8362.3	8326.0	8338.6	8299.3
8159.1	10°	8239.4	8206.4	8242.6	8263.0	8264.6	8239.4	8204.8	8171.7	8157.5
7992.2	12.5°	8047.3	8004.8	8066.2	8094.5	8089.8	8041.0	8001.6	8009.5	7963.8
7699.3	15°	7782.7	7784.3	7828.4	7855.2	7830.0	7818.9	7822.1	7803.2	7763.8
7294.5	17.5°	7378.0	7401.6	7518.2	7582.7	7596.9	7574.9	7563.8	7541.8	7502.4
6648.9	20°	6704.0	6845.7	7053.6	7253.6	7293.0	7286.7	7247.3	7237.8	7215.8
6009.5	22.5°	6111.9	6217.4	6458.3	6770.1	6930.8	6946.5	6899.3	6885.1	6861.5
5437.8	25°	5499.2	5612.6	5830.0	6168.5	6500.8	6568.5	6560.7	6518.2	6493.0
4930.7	27.5°	4982.7	5096.1	5292.9	5598.5	5954.4	6171.7	6192.2	6124.4	6122.9
4478.8	30°	4516.6	4672.5	4822.1	5070.9	5415.8	5741.8	5776.4	5729.2	5733.9
4064.6	32.5°	4151.2	4280.3	4407.9	4574.8	4861.4	5241.0	5376.4	5332.3	5315.0
3719.7	35°	3778.0	3866.2	3996.9	4149.6	4344.9	4721.3	4955.9	4922.9	4905.5
3253.6	37.5°	3352.8	3504.0	3598.4	3770.1	3922.9	4222.1	4552.8	4548.1	4511.8
2856.7	40°	2916.6	3075.6	3218.9	3392.1	3510.3	3748.1	4115.0	4113.4	4118.1
2445.7	42.5°	2521.3	2667.7	2841.0	3029.9	3143.3	3316.6	3710.3	3732.3	3759.1
2107.1	45°	2163.8	2296.1	2456.7	2686.6	2823.6	2922.9	3272.5	3373.3	3371.7
1804.7	47.5°	1842.5	1966.9	2102.4	2326.0	2500.8	2590.6	2880.3	3023.6	3014.2
1480.3	50°	1546.5	1656.7	1798.4	1960.6	2195.3	2274.0	2489.8	2678.8	2664.6
1179.5	52.5°	1244.1	1396.9	1516.5	1664.6	1911.8	1989.0	2155.9	2340.2	2329.1
885.0	55°	970.1	1118.1	1263.0	1390.6	1598.4	1713.4	1833.1	2022.1	2018.9
692.9	57.5°	733.9	896.1	1033.1	1154.3	1319.7	1461.4	1557.5	1729.1	1751.2
474.0	60°	543.3	667.7	815.8	951.2	1081.9	1228.4	1292.9	1461.4	1470.9
324.4	62.5°	370.1	507.1	652.0	774.8	872.4	1023.6	1081.9	1220.5	1237.8
207.9	65°	256.7	344.9	510.2	598.4	718.1	847.2	905.5	1015.8	1050.4
119.7	67.5°	170.1	245.7	398.4	478.7	596.9	685.0	759.1	848.8	886.6
75.6	70°	92.9	181.1	285.0	378.0	480.3	565.4	637.8	710.2	743.3
34.6	72.5°	63.0	121.3	198.4	299.2	387.4	470.9	535.4	589.0	590.6
20.5	75°	31.5	81.9	151.2	231.5	302.4	384.3	442.5	474.0	436.2
12.6	77.5°	18.9	59.8	122.8	185.8	245.7	310.2	343.3	360.6	299.2
9.4	80°	11.0	42.5	96.1	148.0	170.1	228.3	259.8	264.6	200.0
6.3	82.5°	7.9	31.5	75.6	108.7	103.9	160.6	195.3	189.0	127.6
4.7	85°	4.7	22.0	47.2	67.7	63.0	105.5	113.4	116.5	74.0
3.1	87.5°	3.1	12.6	25.2	36.2	29.9	45.7	45.7	55.1	36.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
8510.3
8299.3
8333.9
8233.1
8094.5
7924.5
7724.5
7485.1
7165.4
6855.2
6466.2
6119.7
5710.3
5316.6
4881.9
4541.8
4118.1
3744.9
3374.8
3017.3
2677.2
2352.8
2026.8
1741.7
1485.0
1241.0
1042.5
881.9
730.7
576.4
407.9
288.2
187.4
118.1
67.7
31.5
0.0

(END OF REPORT)