

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: P637552

Luminaire Tested: **IFLD-S-SA2D-727-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637552
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-727-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12286 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 123.9
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



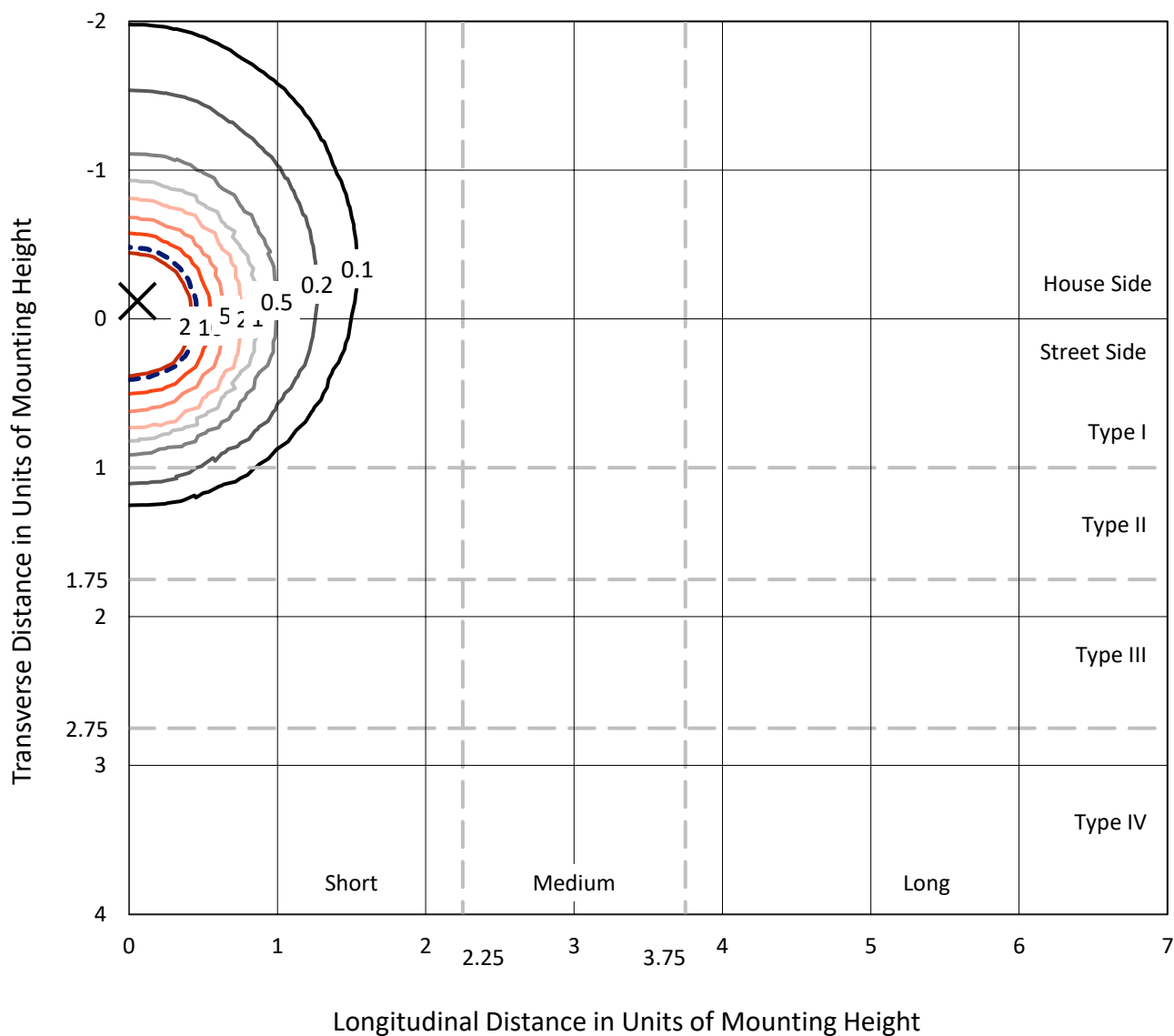
REPORT NUMBER: P637552

CATALOG NUMBER: IFLD-S-SA2D-727-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



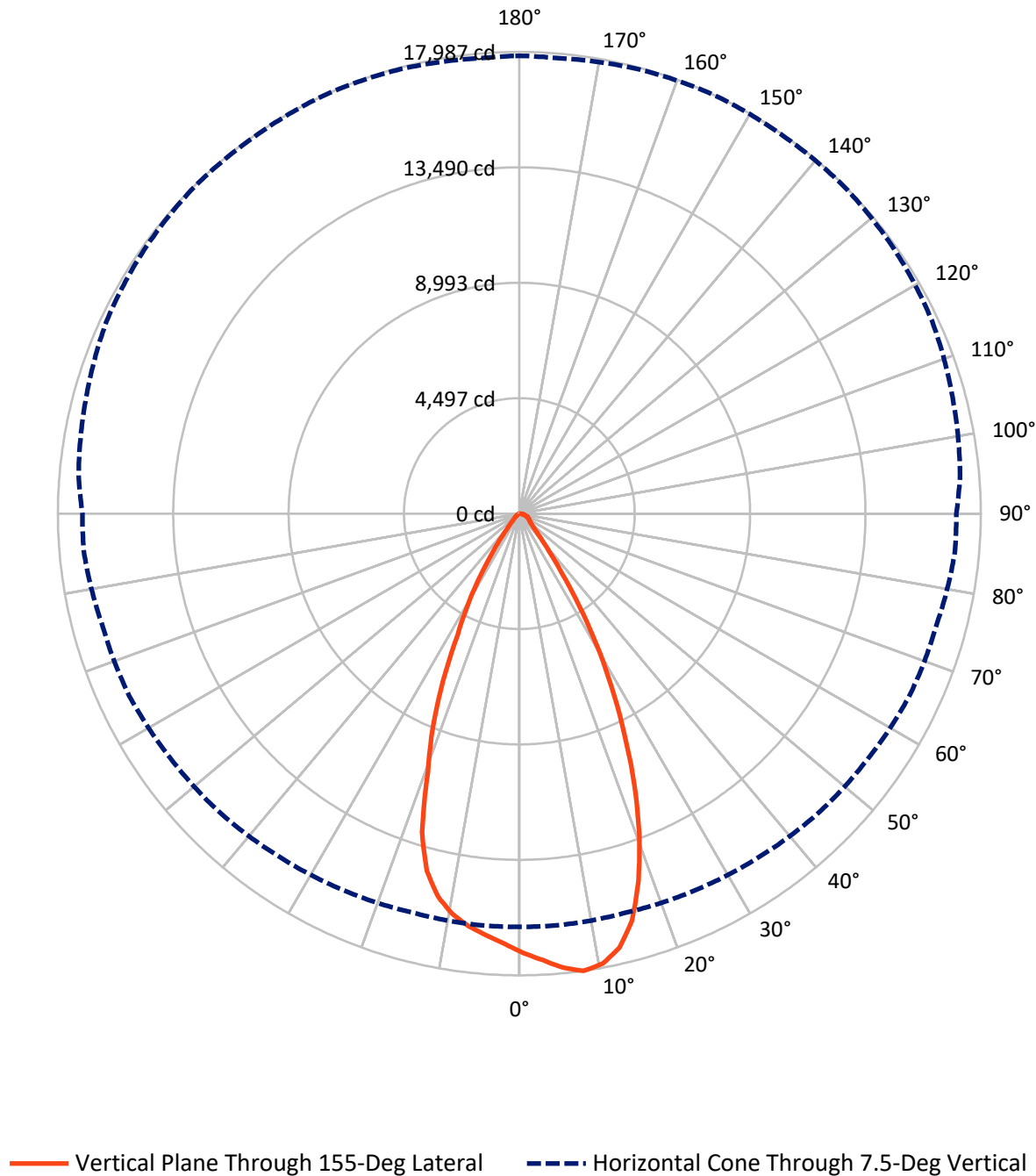
Based on 20 foot mounting height. Maximum calculated value = 43.5 fc

Type I - Short - N/A

REPORT NUMBER: P637552

CATALOG NUMBER: IFLD-S-SA2D-727-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637552

CATALOG NUMBER: IFLD-S-SA2D-727-U-55-VI

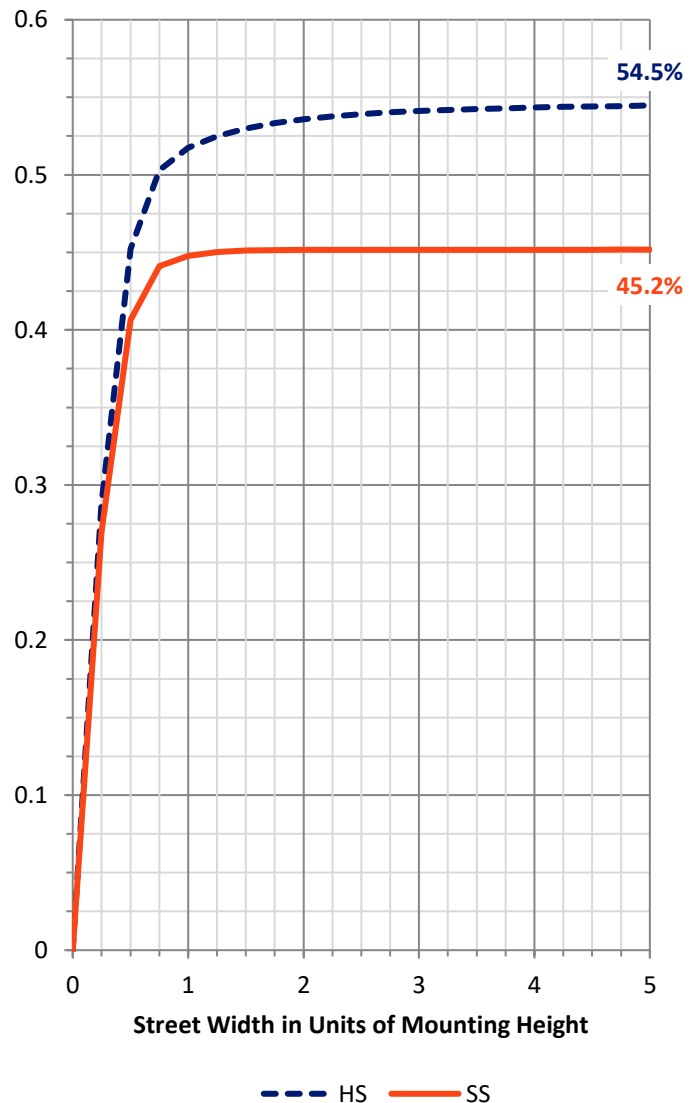
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6782.3	0.0	6782.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	5503.7	0.0	5503.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	12286.0	0.0	12286.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1632.1	13.3
10°-20°	4231.9	34.4
20°-30°	3877.6	31.6
30°-40°	1566.6	12.8
40°-50°	459.6	3.7
50°-60°	256.9	2.1
60°-70°	156.1	1.3
70°-80°	79.3	0.6
80°-90°	25.9	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°	12286.0	100.0
0°-180°	12286.0	100.0

Coefficient of Utilization



REPORT NUMBER: P637552

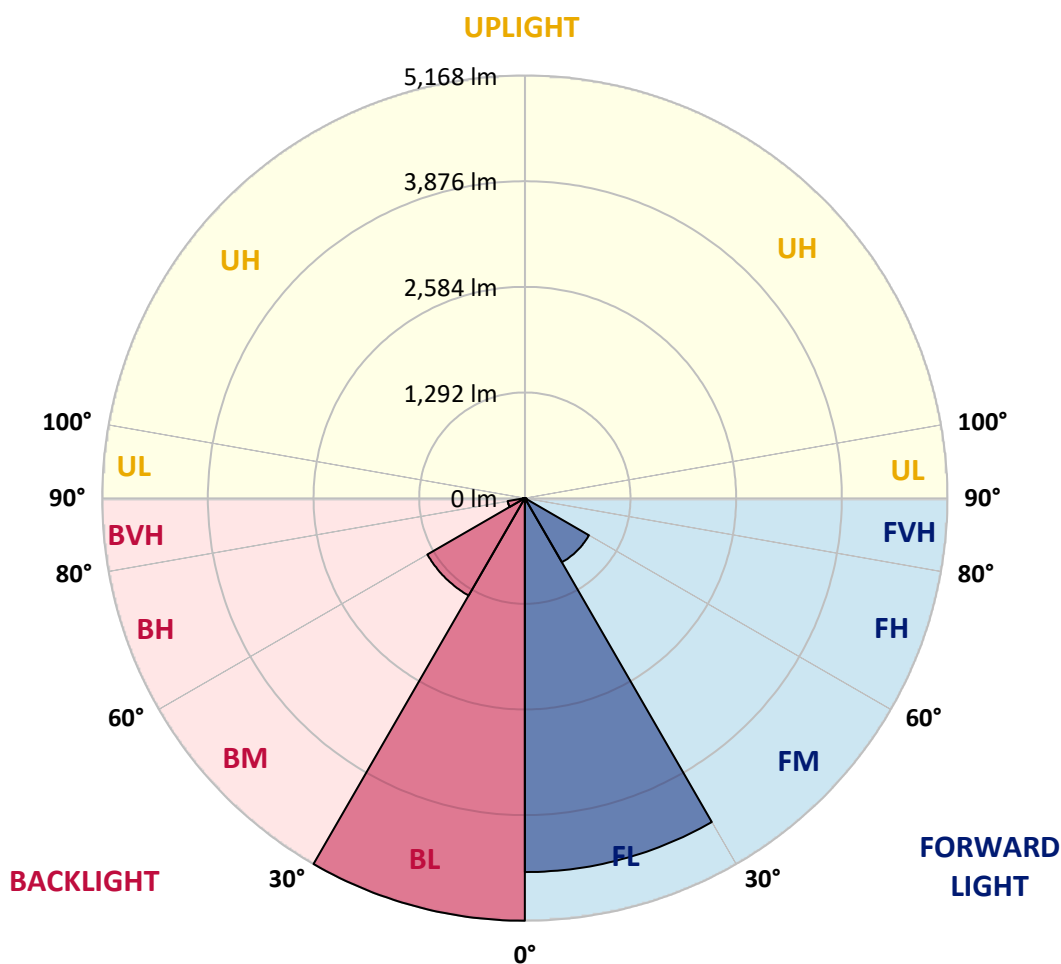
CATALOG NUMBER: IFLD-S-SA2D-727-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4573.1	37.2			
FM	(30°-60°)	906.3	7.4			
FH	(60°-80°)	22.0	0.2			G0/660
FVH	(80°-90°)	2.2	0.0			G0/10
BL	(0°-30°)	5168.5	42.1	B5		
BM	(30°-60°)	1376.8	11.2	B2/2500		
BH	(60°-80°)	213.4	1.7	B1/500		G1/500
BVH	(80°-90°)	23.7	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



REPORT NUMBER: P637552

CATALOG NUMBER: IFLD-S-SA2D-727-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17115.3	17115.3	17115.3	17115.3	17115.3	17115.3	17115.3	17115.3	17115.3	17115.3
2.5°	16744.1	16800.8	16687.4	16762.5	16820.6	16959.5	16970.8	17019.0	17036.0	17162.0
5°	16426.8	16470.7	16378.6	16479.2	16561.4	16684.6	16779.5	16912.7	16986.4	17135.1
7.5°	16096.7	16106.6	16088.2	16194.4	16317.7	16487.7	16605.3	16779.5	16824.9	17037.4
10°	15697.2	15624.9	15660.3	15816.2	16000.3	16261.0	16341.8	16516.0	16596.8	16813.5
12.5°	15059.6	15096.5	15052.6	15250.9	15403.9	15700.0	15785.0	15960.7	16115.1	16306.4
15°	14161.5	14140.2	14229.5	14383.9	14549.6	14784.8	14922.2	15113.5	15231.1	15429.4
17.5°	12142.6	12214.9	12583.2	12970.0	13310.0	13584.8	13749.2	13907.9	13992.9	14208.2
20°	10486.5	10395.8	10445.4	10663.6	11631.2	12052.0	12224.8	12263.1	12298.5	12468.5
22.5°	8634.9	8605.1	8770.9	9016.0	9245.5	10215.9	10451.1	10361.8	10435.5	10595.6
25°	6412.0	6562.2	6709.5	7179.9	7477.4	7953.4	8399.7	8439.4	8466.3	8566.9
27.5°	5219.2	5166.7	5163.9	5295.7	5734.8	6131.5	6511.2	6599.0	6583.5	6679.8
30°	4102.8	4085.8	4026.3	4057.5	4013.5	4366.3	4544.8	4906.1	4886.2	4889.1
32.5°	2959.5	2895.8	2871.7	2918.4	2873.1	2840.5	2996.3	3404.4	3397.3	3425.6
35°	1790.7	1782.2	1802.1	1843.1	1752.5	1749.6	1782.2	2166.2	2212.9	2258.2
37.5°	988.9	980.4	995.9	1147.5	1117.8	1090.9	1099.4	1302.0	1436.5	1470.5
40°	651.7	650.3	661.6	688.5	739.5	729.6	733.9	824.5	952.0	981.8
42.5°	436.3	437.8	444.8	476.0	483.1	534.1	525.6	546.9	665.9	691.4
45°	348.5	347.1	351.3	337.2	345.7	398.1	403.8	405.2	507.2	522.8
47.5°	274.8	274.8	279.1	260.7	256.4	289.0	318.8	323.0	405.2	426.4
50°	192.7	192.7	213.9	205.4	215.3	225.3	257.8	262.1	331.5	354.2
52.5°	141.7	144.5	147.3	148.8	181.3	179.9	208.3	228.1	250.8	290.4
55°	107.7	110.5	103.4	110.5	134.6	150.2	155.8	184.2	199.8	243.7
57.5°	70.8	77.9	72.3	85.0	90.7	116.2	124.7	151.6	161.5	199.8
60°	9.9	11.3	18.4	59.5	63.8	76.5	96.3	120.4	130.3	162.9
62.5°	1.4	1.4	4.3	9.9	42.5	51.0	72.3	83.6	96.3	121.8
65°	0.0	0.0	1.4	2.8	8.5	29.8	36.8	45.3	66.6	87.8
67.5°	0.0	0.0	1.4	2.8	4.3	9.9	15.6	29.8	38.3	60.9
70°	0.0	0.0	1.4	2.8	4.3	5.7	8.5	11.3	22.7	35.4
72.5°	0.0	0.0	1.4	2.8	4.3	5.7	7.1	8.5	9.9	22.7
75°	0.0	0.0	1.4	2.8	4.3	7.1	8.5	8.5	8.5	9.9
77.5°	0.0	0.0	1.4	2.8	5.7	8.5	9.9	8.5	7.1	7.1
80°	0.0	0.0	1.4	4.3	7.1	9.9	11.3	8.5	5.7	4.3
82.5°	0.0	0.0	1.4	4.3	7.1	9.9	11.3	9.9	5.7	4.3
85°	0.0	0.0	1.4	4.3	5.7	7.1	11.3	9.9	5.7	2.8
87.5°	0.0	0.0	0.0	1.4	1.4	2.8	5.7	4.3	2.8	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P637552

CATALOG NUMBER: IFLD-S-SA2D-727-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
17115.3	0°	17115.3	17115.3	17115.3	17115.3	17115.3	17115.3	17115.3	17115.3	17115.3
17159.2	2.5°	17286.7	17350.5	17462.4	17493.6	17589.9	17479.4	17418.5	17424.1	17292.4
17116.7	5°	17286.7	17432.6	17628.1	17721.6	17792.5	17786.8	17771.2	17731.6	17635.2
17031.7	7.5°	17241.4	17479.4	17748.6	17873.2	17958.2	17951.2	17986.6	17922.8	17805.2
16880.1	10°	17095.5	17302.3	17633.8	17735.8	17873.2	17876.1	17832.2	17844.9	17635.2
16326.2	12.5°	16636.4	16798.0	17088.4	17204.5	17371.7	17398.6	17350.5	17332.1	17133.7
15418.1	15°	15748.2	15841.7	16133.5	16249.7	16415.4	16392.8	16440.9	16421.1	16246.9
14191.2	17.5°	14449.0	14478.8	14784.8	14882.6	15038.4	15099.3	15027.1	15119.1	14969.0
12498.2	20°	12586.1	12746.2	13090.4	13240.6	13331.3	13440.3	13345.4	13448.8	13273.2
10444.0	22.5°	10696.2	10791.1	11102.8	11319.5	11488.1	11509.4	11473.9	11546.2	11309.6
8633.4	25°	8632.0	8789.3	9035.8	9319.1	9484.9	9586.9	9494.8	9541.6	9503.3
6695.4	27.5°	6808.7	6949.0	7134.6	7345.7	7595.0	7728.2	7654.5	7733.8	7546.8
4992.5	30°	4996.7	5067.6	5277.3	5501.1	5774.5	5936.0	5943.1	6023.9	5913.4
3497.9	32.5°	3523.4	3585.7	3714.6	3863.4	4124.0	4304.0	4275.6	4287.0	4219.0
2279.5	35°	2290.8	2374.4	2466.5	2537.3	2694.6	2892.9	2877.3	2863.2	2816.4
1498.9	37.5°	1531.5	1564.0	1615.1	1678.8	1780.8	1905.5	1946.6	1895.6	1875.7
1011.5	40°	1035.6	1092.3	1126.3	1174.5	1222.6	1327.5	1355.8	1345.9	1326.0
708.4	42.5°	735.3	779.2	821.7	868.4	893.9	959.1	1014.4	998.8	990.3
538.4	45°	558.2	597.9	647.4	682.9	708.4	746.6	799.0	804.7	791.9
432.1	47.5°	447.7	483.1	522.8	566.7	596.4	620.5	665.9	682.9	674.4
364.1	50°	379.7	406.6	444.8	488.8	521.3	542.6	582.3	600.7	595.0
304.6	52.5°	323.0	355.6	391.0	427.8	467.5	488.8	525.6	552.5	548.3
252.2	55°	267.8	310.3	347.1	383.9	429.3	450.5	483.1	518.5	511.4
213.9	57.5°	233.8	269.2	307.4	342.8	391.0	419.3	449.1	485.9	484.5
175.7	60°	195.5	230.9	273.4	303.2	354.2	393.8	420.8	459.0	461.8
133.2	62.5°	155.8	199.8	232.3	273.4	320.2	366.9	392.4	430.7	444.8
102.0	65°	116.2	164.3	201.2	242.3	286.2	338.6	361.3	399.5	413.7
73.7	67.5°	86.4	123.3	170.0	205.4	255.0	300.3	327.3	362.7	372.6
43.9	70°	65.2	94.9	141.7	172.8	223.8	260.7	287.6	314.5	327.3
29.8	72.5°	38.3	70.8	111.9	148.8	192.7	223.8	243.7	264.9	273.4
14.2	75°	26.9	53.8	87.8	123.3	155.8	181.3	199.8	218.2	226.7
7.1	77.5°	14.2	39.7	69.4	99.2	121.8	143.1	161.5	175.7	181.3
5.7	80°	8.5	28.3	56.7	77.9	93.5	111.9	130.3	140.3	138.8
4.3	82.5°	5.7	22.7	41.1	56.7	68.0	82.2	94.9	102.0	102.0
2.8	85°	4.3	15.6	28.3	43.9	45.3	56.7	59.5	66.6	68.0
2.8	87.5°	2.8	9.9	15.6	25.5	24.1	29.8	31.2	35.4	38.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
17115.3
17186.1
17666.4
17832.2
17574.3
17088.4
16302.1
14932.1
13259.0
11277.0
9479.2
7595.0
5933.2
4257.2
2775.3
1871.5
1328.9
983.2
790.5
670.1
593.6
545.4
511.4
483.1
461.8
443.4
412.3
372.6
324.4
270.6
223.8
179.9
137.4
100.6
66.6
36.8
0.0

(END OF REPORT)