

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: P638171

Luminaire Tested: **IFLD-S-SA6D-740-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638171
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-740-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35168.5 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

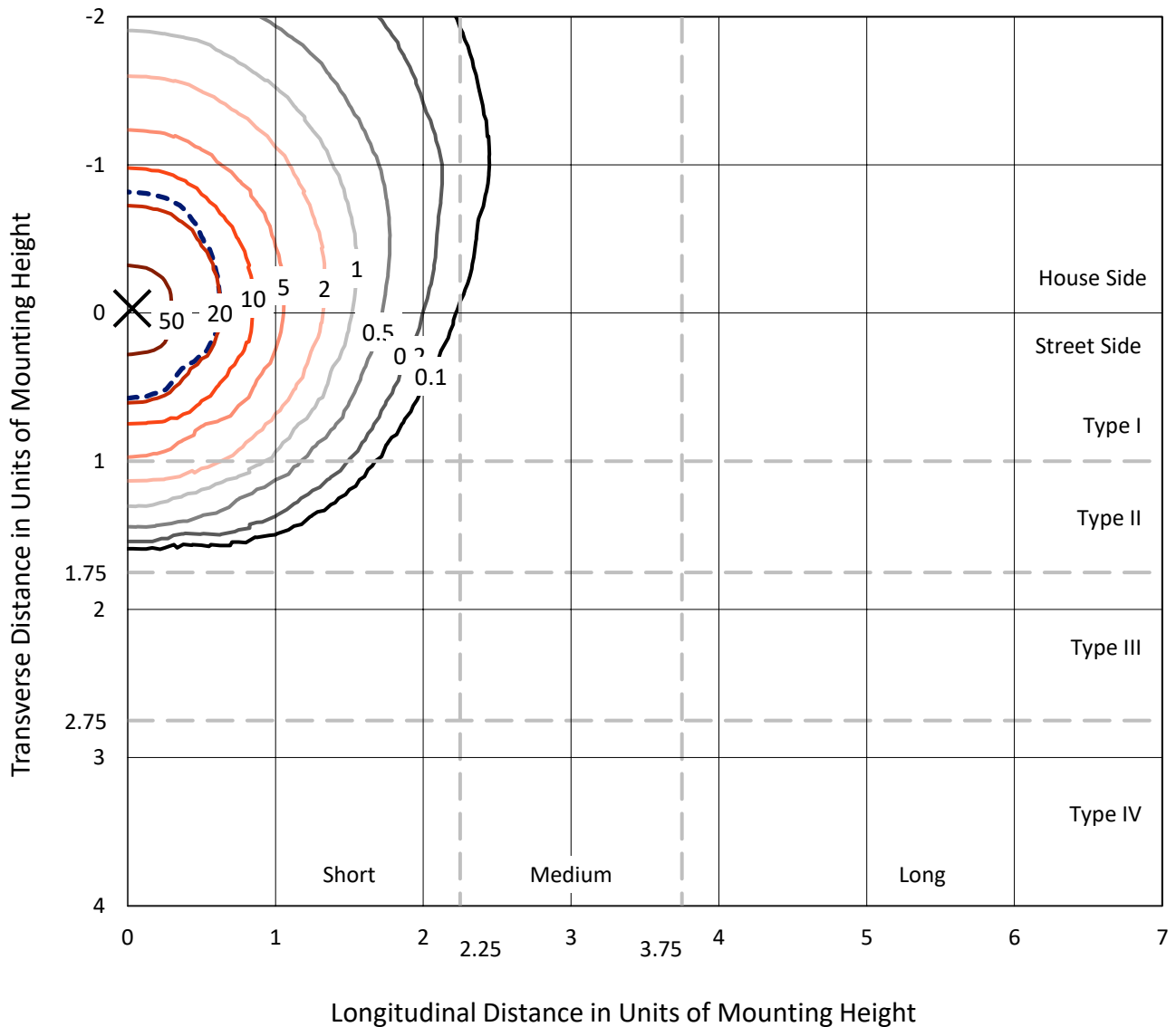
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638171
 CATALOG NUMBER: IFLD-S-SA6D-740-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

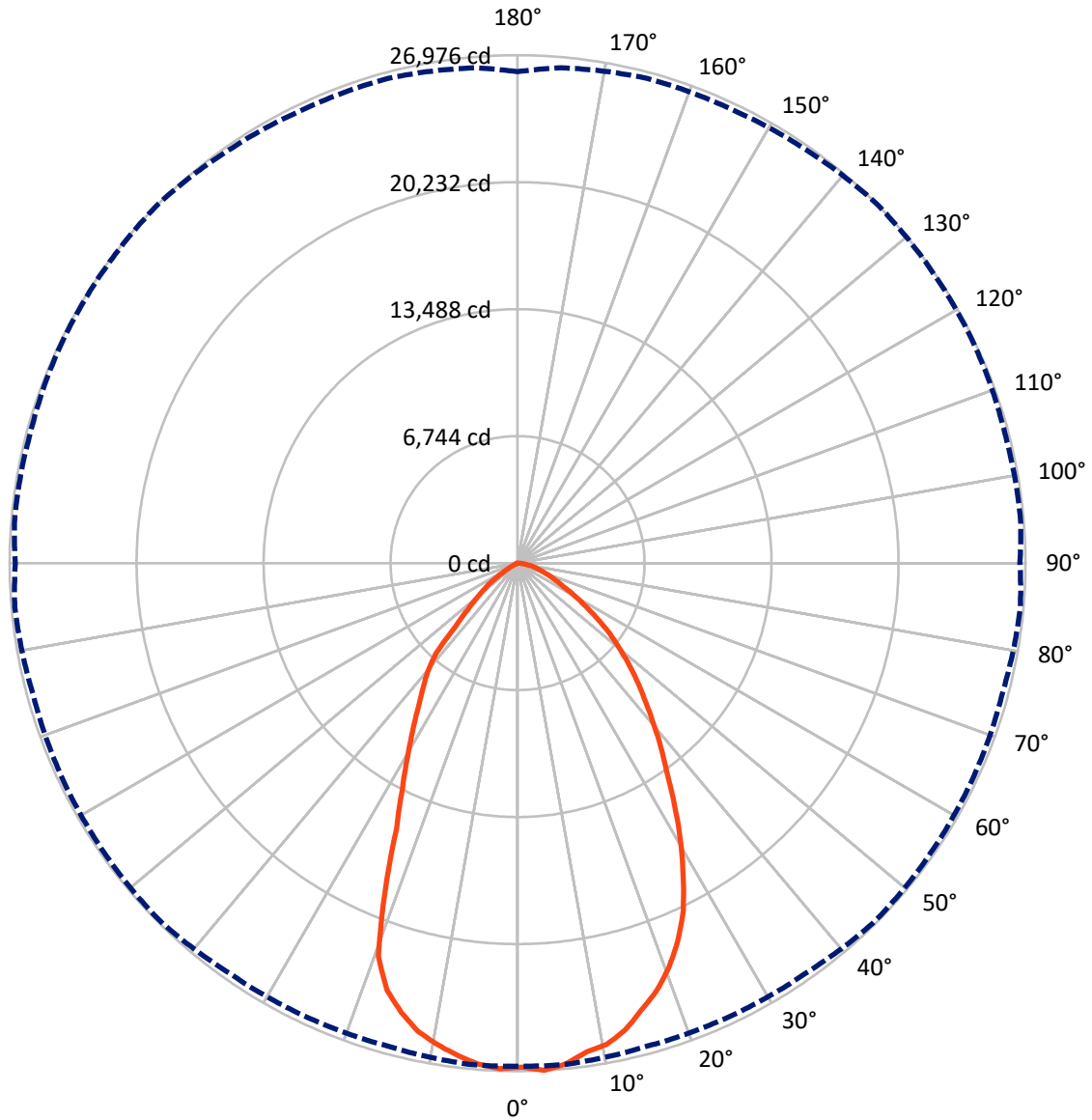
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 66.9 fc
 Type I - Short - N/A

REPORT NUMBER: P638171
CATALOG NUMBER: IFLD-S-SA6D-740-U-77-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P638171
 CATALOG NUMBER: IFLD-S-SA6D-740-U-77-VI

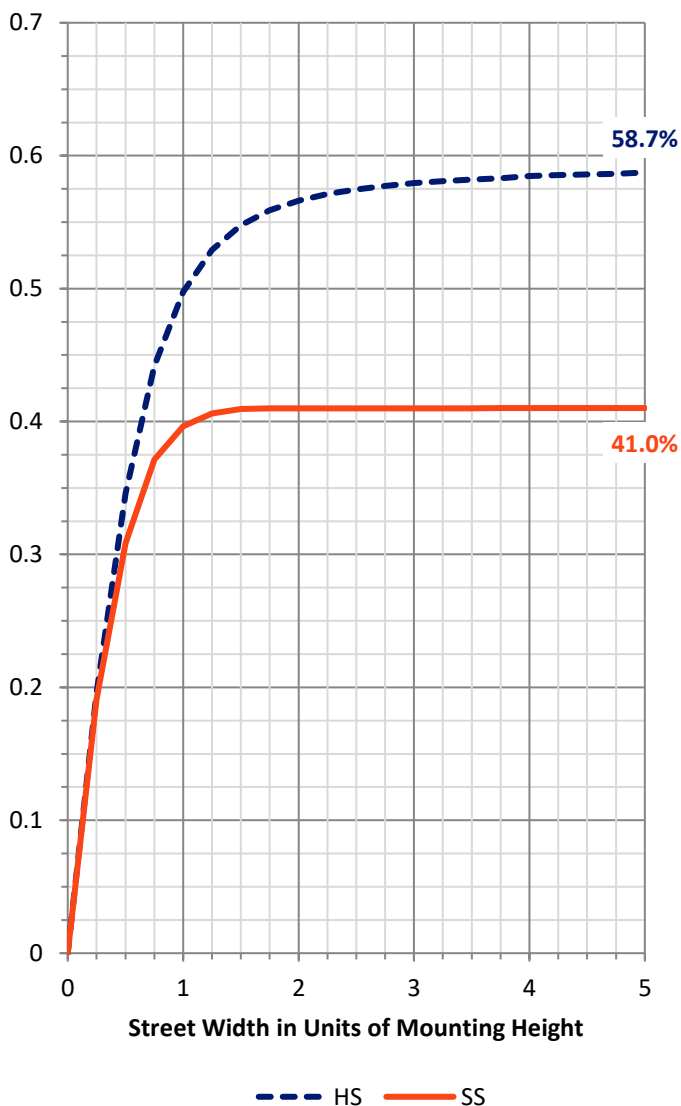
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20828.6	0.0	20828.6
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	14339.9	0.0	14339.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	35168.5	0.0	35168.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2510.0	7.1
10°-20°	6730.6	19.1
20°-30°	8208.3	23.3
30°-40°	7494.1	21.3
40°-50°	5415.8	15.4
50°-60°	2957.1	8.4
60°-70°	1222.7	3.5
70°-80°	495.2	1.4
80°-90°	134.7	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°	35168.5	100.0
0°-180°	35168.5	100.0

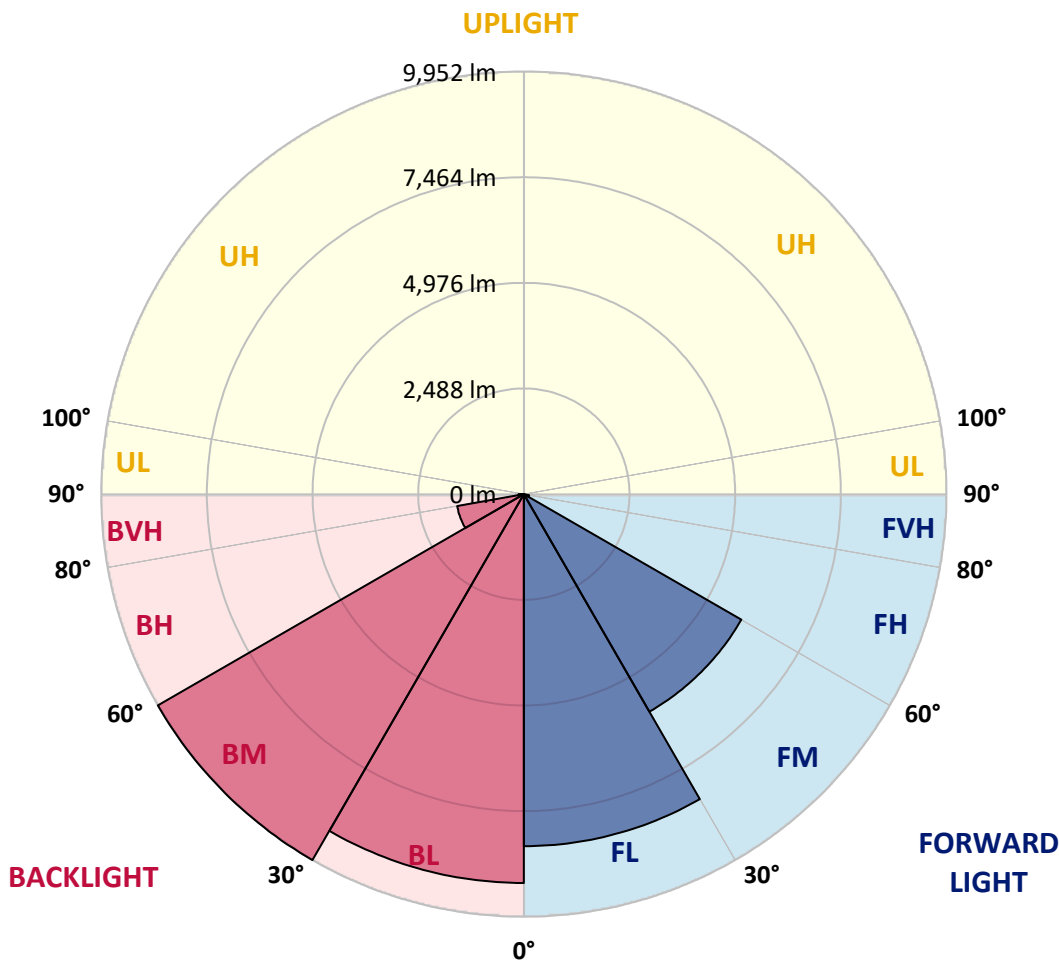


REPORT NUMBER: P638171
 CATALOG NUMBER: IFLD-S-SA6D-740-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8290.5	23.6			
FM (30°-60°)	5914.7	16.8			
FH (60°-80°)	123.9	0.4			G0/660
FVH (80°-90°)	10.8	0.0			G1/100
BL (0°-30°)	9158.4	26.0	B5		
BM (30°-60°)	9952.4	28.3	B5		
BH (60°-80°)	1593.9	4.5	B3/2500		G3/2500
BVH (80°-90°)	123.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3
 Type I Short





REPORT NUMBER: P638171
 CATALOG NUMBER: IFLD-S-SA6D-740-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	26763.1	26763.1	26763.1	26763.1	26763.1	26763.1	26763.1	26763.1	26763.1	26763.1
2.5°	26713.6	26748.3	26560.1	26579.9	26614.6	26867.1	26802.8	26743.3	26659.1	26802.8
5°	26678.9	26698.8	26500.7	26431.3	26461.0	26688.8	26480.8	26480.8	26461.0	26436.3
7.5°	26411.5	26421.4	26267.9	26144.1	26223.3	26327.3	26173.8	26248.1	26139.1	26223.3
10°	26010.4	25946.0	25762.7	25728.1	25817.2	25916.3	25812.3	25881.6	25782.5	25846.9
12.5°	25421.0	25322.0	25173.4	25128.8	25282.3	25416.1	25331.9	25292.3	25163.5	25322.0
15°	23147.8	23073.5	23410.3	23999.7	24529.6	24643.5	24554.3	24594.0	24326.5	24371.1
17.5°	19052.1	18913.5	19275.0	20671.6	22662.5	23712.4	23633.2	23375.6	22979.4	23068.6
20°	17313.8	17274.2	17234.6	17566.4	18958.0	22142.5	22251.4	21597.7	21033.1	20909.3
22.5°	16333.2	16318.4	16278.8	16353.0	16719.5	18764.9	20012.9	19408.7	19032.3	18997.7
25°	15436.8	15412.1	15293.2	15387.3	15387.3	15506.2	17105.8	17472.3	17140.5	17100.9
27.5°	14525.6	14481.0	14461.2	14505.8	14278.0	13475.7	13881.8	15669.6	15496.3	15506.2
30°	13540.0	13525.2	13470.7	13564.8	12861.6	11866.1	11608.6	14035.3	14070.0	14060.1
32.5°	12074.1	12138.5	12386.1	12490.1	11331.2	10509.1	10078.3	12143.5	12851.7	12836.8
35°	8770.8	8770.8	9578.1	11078.7	9929.7	9310.6	9077.9	10296.2	11648.2	11697.7
37.5°	7210.8	7235.6	7394.0	8077.5	8567.8	8349.9	8280.5	8666.8	10103.0	10182.3
40°	6487.7	6487.7	6487.7	6205.4	6190.6	7522.8	7483.2	7359.4	8726.2	8899.6
42.5°	5829.1	5843.9	5853.8	5140.7	4744.5	6502.6	6413.4	6225.3	7493.1	7696.1
45°	5150.6	5175.3	5205.0	4298.7	4125.4	4680.1	5427.9	5219.9	6274.8	6537.3
47.5°	3144.8	3184.4	3858.0	3645.0	3664.8	3610.3	4427.5	4392.8	5145.6	5517.0
50°	2124.6	2139.5	2203.8	2312.8	3144.8	2837.8	3134.9	3635.1	3907.5	4472.1
52.5°	1782.9	1807.7	1649.2	1500.6	2065.2	2218.7	2189.0	2699.1	2808.0	3506.3
55°	1253.0	1332.2	1257.9	1243.1	1173.7	1723.5	1659.1	2075.1	2144.4	2664.4
57.5°	128.8	148.6	257.5	926.1	767.6	975.6	1183.6	1520.4	1589.7	1966.1
60°	9.9	9.9	24.8	128.8	559.6	584.4	817.2	936.0	1069.7	1371.8
62.5°	0.0	5.0	9.9	19.8	89.1	312.0	411.1	490.3	643.8	886.5
65°	0.0	0.0	5.0	14.9	19.8	118.9	158.5	257.5	351.6	549.7
67.5°	0.0	0.0	5.0	9.9	14.9	29.7	54.5	94.1	188.2	312.0
70°	0.0	0.0	5.0	9.9	14.9	24.8	39.6	59.4	84.2	168.4
72.5°	0.0	0.0	5.0	5.0	9.9	24.8	29.7	39.6	59.4	84.2
75°	0.0	0.0	5.0	5.0	14.9	29.7	24.8	29.7	39.6	54.5
77.5°	0.0	0.0	5.0	9.9	14.9	29.7	24.8	29.7	29.7	34.7
80°	0.0	0.0	5.0	9.9	19.8	34.7	29.7	29.7	24.8	24.8
82.5°	0.0	0.0	5.0	14.9	19.8	44.6	44.6	39.6	19.8	14.9
85°	0.0	0.0	9.9	19.8	29.7	49.5	49.5	39.6	14.9	9.9
87.5°	0.0	0.0	9.9	14.9	24.8	34.7	49.5	39.6	14.9	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638171
 CATALOG NUMBER: IFLD-S-SA6D-740-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
26763.1	0°	26763.1	26763.1	26763.1	26763.1	26763.1	26763.1	26763.1	26763.1	26763.1
26678.9	2.5°	26812.7	26782.9	26882.0	26921.6	26976.1	26768.1	26639.3	26644.3	26406.6
26376.8	5°	26535.3	26540.3	26669.0	26659.1	26713.6	26599.7	26550.2	26466.0	26258.0
25995.5	7.5°	26183.7	26139.1	26262.9	26357.0	26218.4	26297.6	26183.7	26223.3	26099.5
25658.7	10°	25911.3	25807.3	25921.2	25985.6	25990.5	25911.3	25802.4	25698.4	25653.8
25133.8	12.5°	25307.1	25173.4	25366.5	25455.7	25440.8	25287.3	25163.5	25188.2	25044.6
24212.6	15°	24475.1	24480.0	24618.7	24702.9	24623.7	24589.0	24598.9	24539.5	24415.7
22939.8	17.5°	23202.3	23276.6	23643.1	23846.1	23890.7	23821.4	23786.7	23717.4	23593.6
20909.3	20°	21082.7	21528.4	22182.1	22811.1	22934.9	22915.1	22791.3	22761.5	22692.2
18898.6	22.5°	19220.5	19552.3	20310.1	21290.7	21795.8	21845.3	21696.8	21652.2	21577.9
17100.9	25°	17294.0	17650.6	18334.0	19398.8	20443.8	20656.7	20632.0	20498.3	20419.0
15506.2	27.5°	15669.6	16026.2	16645.2	17606.0	18725.3	19408.7	19473.1	19260.1	19255.2
14084.8	30°	14203.7	14694.0	15164.5	15946.9	17031.5	18056.7	18165.7	18017.1	18031.9
12782.3	32.5°	13054.7	13460.8	13862.0	14386.9	15288.3	16481.8	16907.7	16769.1	16714.6
11697.7	35°	11881.0	12158.3	12569.4	13049.8	13663.9	14847.5	15585.4	15481.4	15426.9
10231.8	37.5°	10543.8	11019.2	11316.4	11856.2	12336.6	13277.6	14317.6	14302.7	14188.8
8983.8	40°	9172.0	9672.2	10122.8	10667.6	11039.1	11786.9	12940.8	12935.8	12950.7
7691.2	42.5°	7928.9	8389.5	8934.3	9528.5	9885.1	10429.9	11668.0	11737.3	11821.5
6626.4	45°	6804.7	7220.7	7725.8	8448.9	8879.8	9191.8	10291.2	10608.2	10603.2
5675.5	47.5°	5794.4	6185.6	6611.5	7314.8	7864.5	8146.8	9058.1	9508.7	9479.0
4655.3	50°	4863.3	5210.0	5655.7	6165.8	6903.7	7151.4	7829.9	8424.1	8379.6
3709.4	52.5°	3912.4	4392.8	4769.2	5234.8	6012.3	6255.0	6779.9	7359.4	7324.7
2783.3	55°	3050.7	3516.3	3971.9	4373.0	5026.8	5388.3	5764.7	6359.0	6349.1
2179.1	57.5°	2307.8	2818.0	3248.8	3630.2	4150.2	4595.9	4898.0	5437.8	5507.1
1490.7	60°	1708.6	2099.8	2565.4	2991.3	3402.3	3862.9	4066.0	4595.9	4625.6
1020.2	62.5°	1163.8	1594.7	2050.3	2436.6	2743.7	3219.1	3402.3	3838.2	3892.6
653.7	65°	807.3	1084.6	1604.6	1881.9	2258.3	2664.4	2847.7	3194.3	3303.3
376.4	67.5°	534.9	772.6	1253.0	1505.6	1877.0	2154.3	2387.1	2669.4	2788.2
237.7	70°	292.2	569.5	896.4	1188.6	1510.5	1777.9	2005.7	2233.6	2337.6
109.0	72.5°	198.1	381.3	624.0	941.0	1218.3	1480.8	1683.8	1852.2	1857.2
64.4	75°	99.0	257.5	475.4	728.0	950.9	1208.4	1391.6	1490.7	1371.8
39.6	77.5°	59.4	188.2	386.3	584.4	772.6	975.6	1079.6	1134.1	941.0
29.7	80°	34.7	133.7	302.1	465.5	534.9	718.1	817.2	832.0	629.0
19.8	82.5°	24.8	99.0	237.7	341.7	326.9	505.2	614.1	594.3	401.1
14.9	85°	14.9	69.3	148.6	213.0	198.1	331.8	356.6	366.5	232.8
9.9	87.5°	9.9	39.6	79.2	113.9	94.1	143.6	143.6	173.3	113.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
26763.1
26099.5
26208.5
25891.5
25455.7
24920.8
24291.9
23539.1
22533.7
21558.1
20334.8
19245.3
17957.6
16719.5
15352.6
14282.9
12950.7
11777.0
10613.1
9488.9
8419.2
7399.0
6373.8
5477.4
4670.2
3902.5
3278.5
2773.4
2297.9
1812.6
1282.7
906.3
589.3
371.4
213.0
99.0
0.0

(END OF REPORT)