

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: P637277

Luminaire Tested: **IFLD-M-SA4D-722-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637277
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-722-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22225.3 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

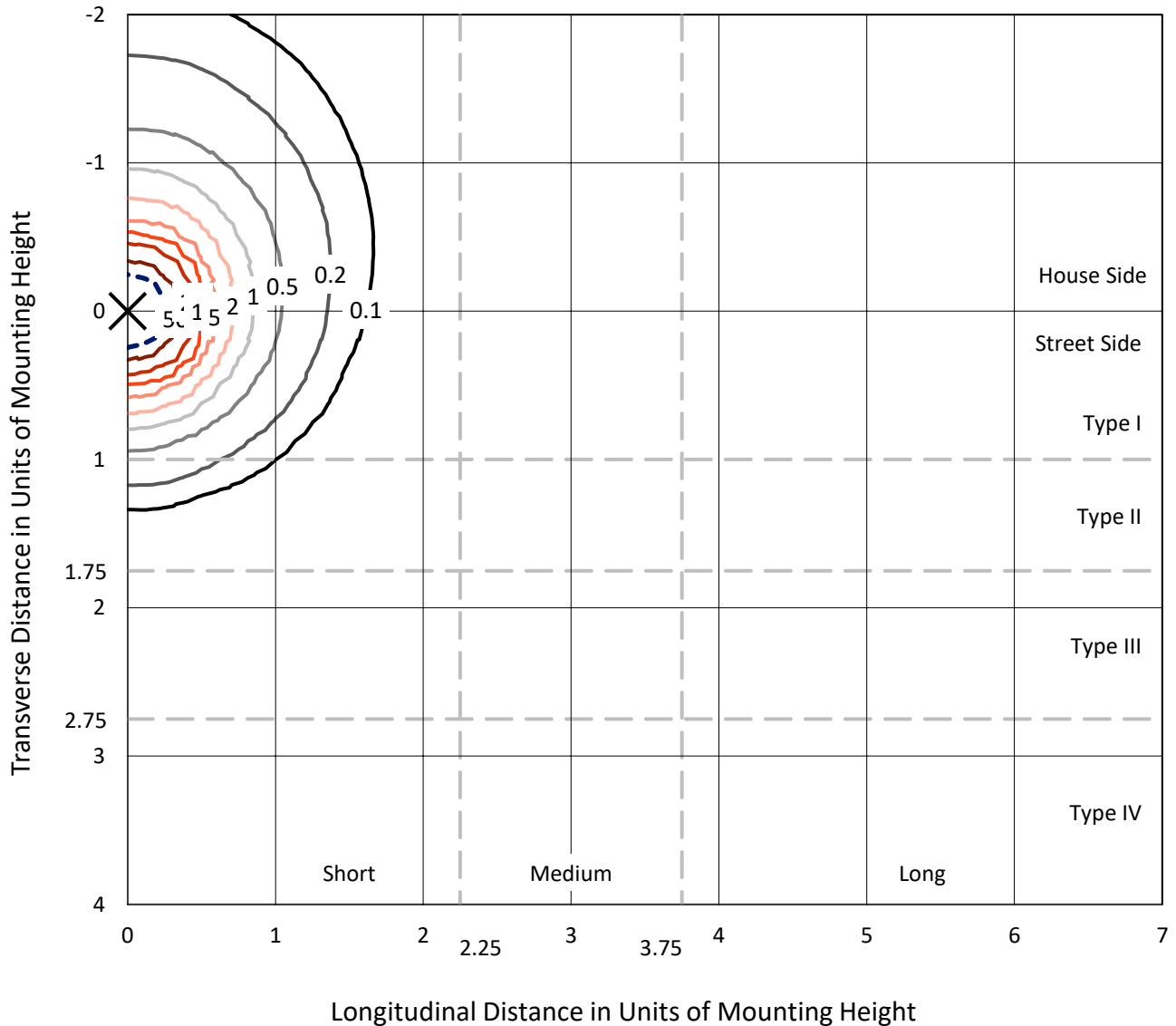
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637277
 CATALOG NUMBER: IFLD-M-SA4D-722-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

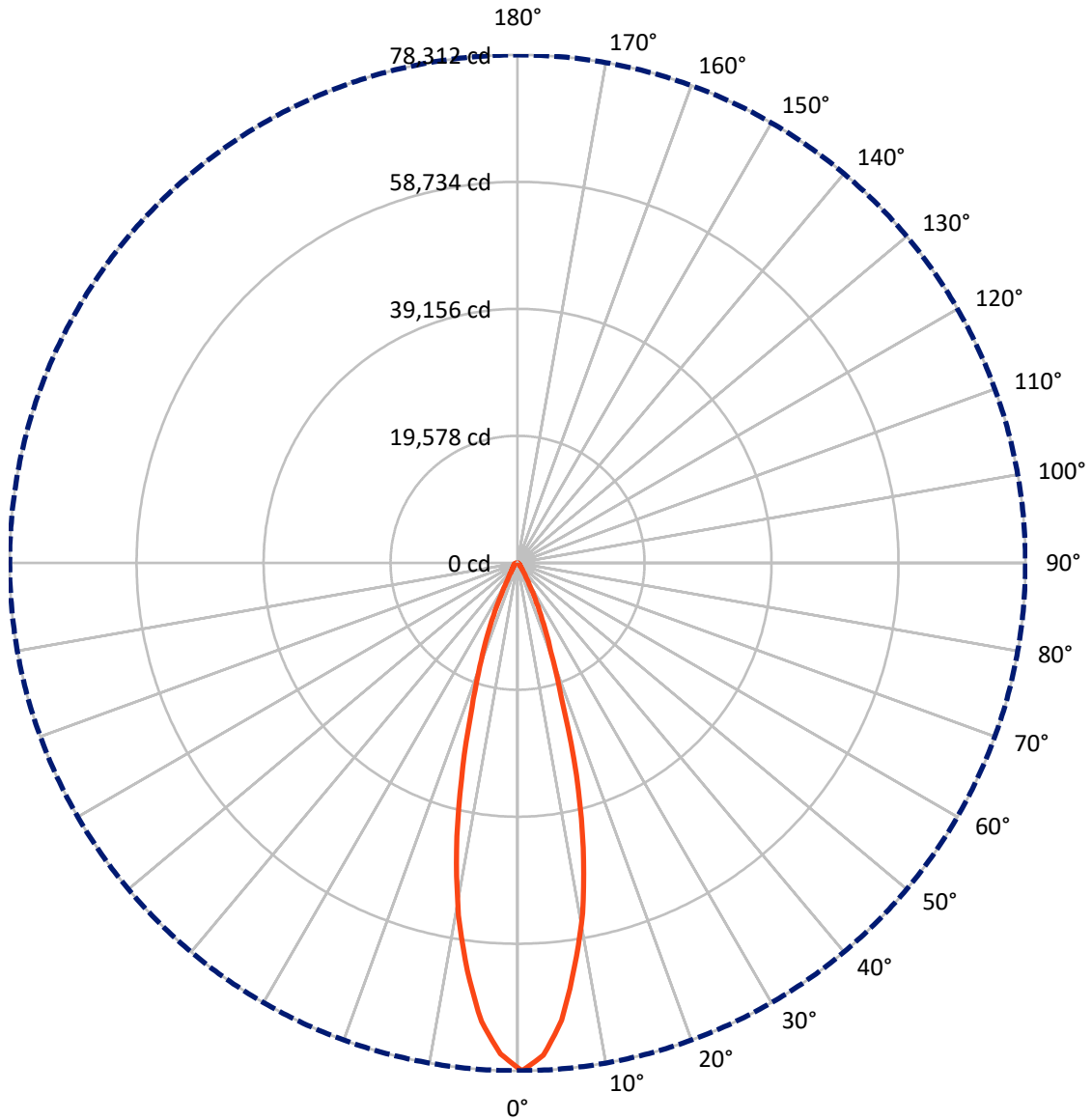
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 195.8 fc
 Type V - Short - N/A

REPORT NUMBER: P637277
CATALOG NUMBER: IFLD-M-SA4D-722-U-44-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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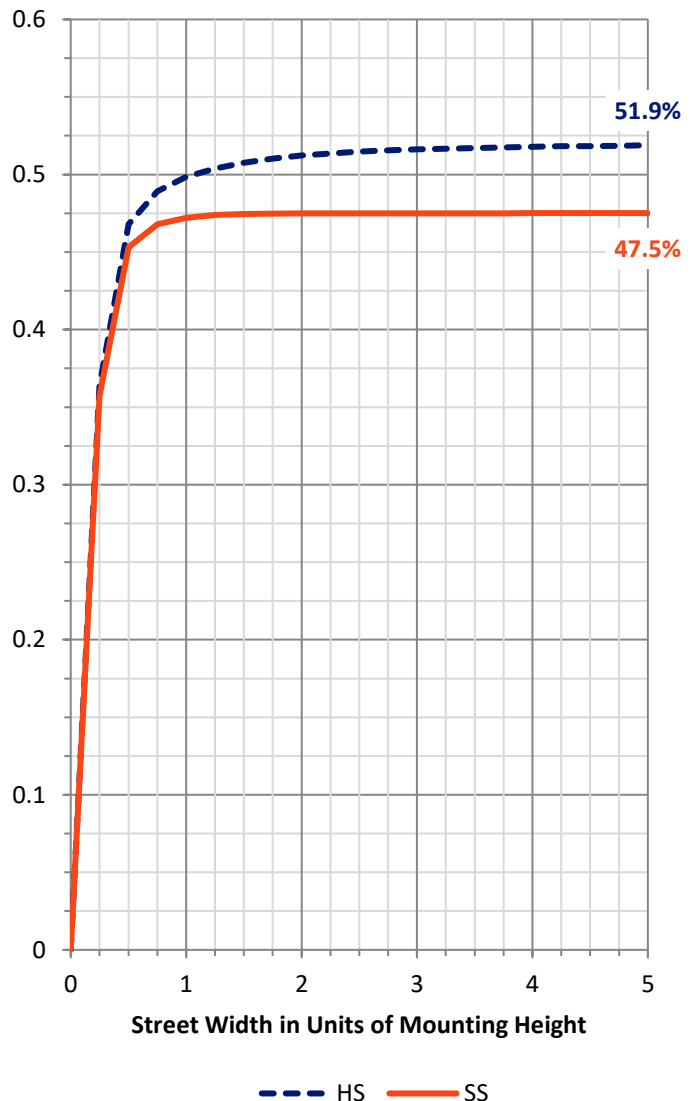
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11718.7	0.0	11718.7
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	10506.6	0.0	10506.6
	% Fixture	47.3	0.0	47.3
Total	Lumens	22225.3	0.0	22225.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6320.5	28.4
10°-20°	9572.4	43.1
20°-30°	4039.6	18.2
30°-40°	1053.6	4.7
40°-50°	532.9	2.4
50°-60°	348.3	1.6
60°-70°	208.7	0.9
70°-80°	109.8	0.5
80°-90°	39.7	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°	22225.3	100.0
0°-180°	22225.3	100.0

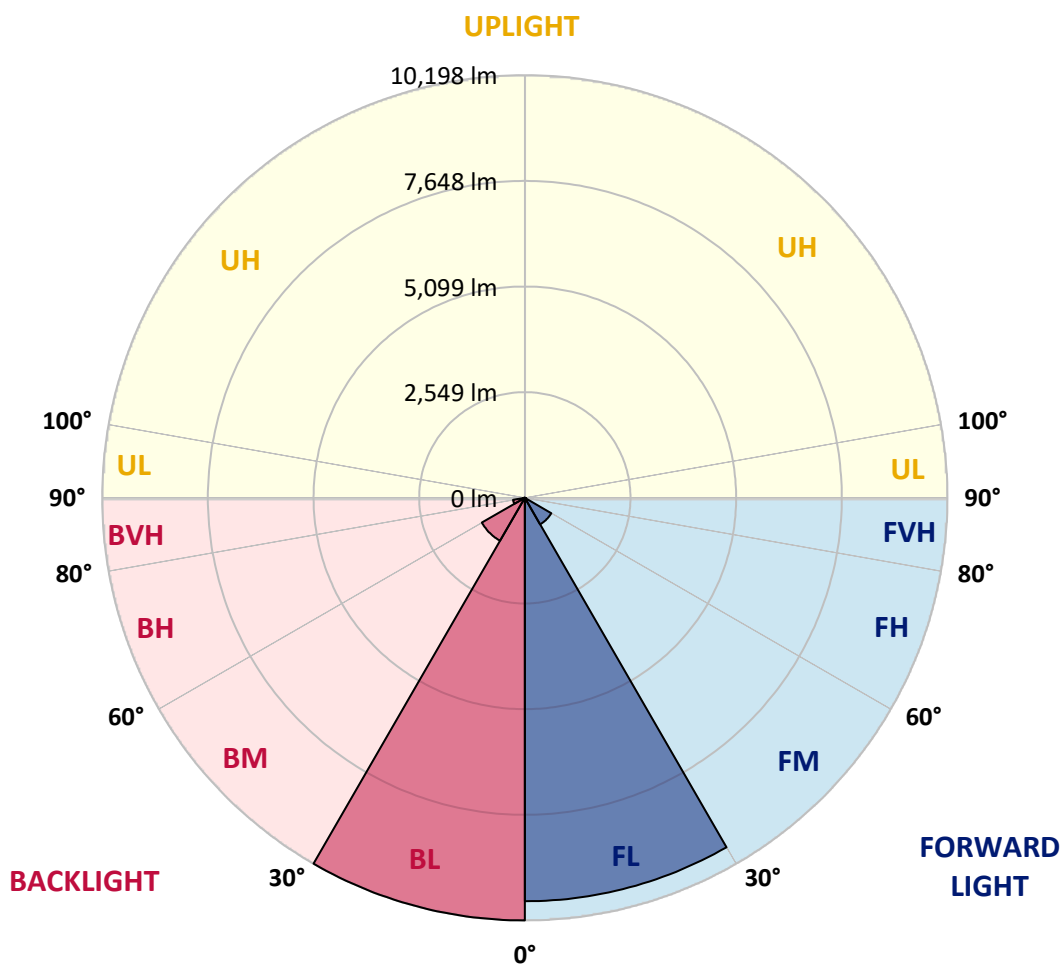


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9734.5	43.8			
FM (30°-60°)	737.2	3.3			
FH (60°-80°)	30.1	0.1			G0/660
FVH (80°-90°)	4.8	0.0			G0/10
BL (0°-30°)	10197.9	45.9	B5		
BM (30°-60°)	1197.5	5.4	B2/2500		
BH (60°-80°)	288.4	1.3	B1/500		G0/660
BVH (80°-90°)	34.8	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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	78312.3	78312.3	78312.3	78312.3	78312.3	78312.3	78312.3	78312.3	78312.3	78312.3
2.5°	76031.1	76073.5	75916.2	76255.7	75991.1	76700.0	76348.0	76897.1	76712.4	77019.4
5°	70839.5	70769.6	70724.7	71251.3	71099.1	71860.4	71373.6	71213.9	71708.1	71618.2
7.5°	62999.8	63184.5	63079.7	63216.9	63294.3	64162.9	64437.5	64222.8	64230.3	64355.1
10°	54962.9	54690.8	54304.0	54561.1	55105.2	55484.5	55332.3	55646.8	55576.9	55873.9
12.5°	45074.0	45288.7	45071.5	44841.9	45792.8	45688.0	45952.6	46124.8	45693.0	46653.9
15°	33952.2	34064.5	34329.0	34311.6	35042.9	35190.1	35155.2	35337.4	35000.4	35160.2
17.5°	21811.9	22191.3	22902.7	24105.7	25458.5	25615.7	25575.8	25426.1	25263.8	25084.1
20°	14651.1	14611.2	14868.3	15220.2	18020.6	18761.9	18739.5	18270.2	17591.3	17461.5
22.5°	10263.3	10338.1	10303.2	10652.6	11231.7	13275.9	13023.8	12547.0	12324.9	12180.1
25°	6751.5	6724.0	6898.8	7003.6	7500.3	7749.9	8633.4	8456.2	8114.3	8151.7
27.5°	4115.8	4150.7	4215.6	4305.5	4657.4	4577.5	5081.7	5149.1	5039.3	4922.0
30°	2525.9	2550.8	2603.3	2668.2	2790.5	2703.1	2842.9	3085.0	3045.0	2962.7
32.5°	1714.7	1717.2	1754.6	1779.6	1764.6	1682.3	1727.2	1956.8	1961.8	1954.3
35°	1233.0	1233.0	1267.9	1287.9	1245.5	1178.1	1185.6	1327.8	1390.2	1402.7
37.5°	851.1	853.6	913.5	973.4	926.0	908.5	878.6	973.4	1073.3	1088.2
40°	646.4	644.0	673.9	718.8	723.8	691.4	701.4	761.3	863.6	876.1
42.5°	524.1	526.6	541.6	536.6	539.1	581.6	596.5	624.0	718.8	741.3
45°	441.8	444.3	451.8	426.8	416.8	481.7	501.7	516.7	596.5	624.0
47.5°	364.4	369.4	376.9	349.4	344.4	386.9	421.8	436.8	506.7	536.6
50°	262.1	267.1	294.5	279.5	294.5	304.5	351.9	374.4	421.8	461.7
52.5°	189.7	194.7	202.2	204.7	242.1	247.1	282.0	317.0	339.4	384.4
55°	149.8	154.7	149.8	144.8	177.2	204.7	217.1	254.6	272.1	324.5
57.5°	84.9	89.9	97.3	112.3	117.3	157.2	169.7	202.2	217.1	267.1
60°	15.0	17.5	27.5	67.4	82.4	99.8	127.3	154.7	174.7	209.7
62.5°	2.5	2.5	5.0	15.0	47.4	69.9	92.3	109.8	127.3	159.7
65°	0.0	0.0	2.5	5.0	12.5	39.9	49.9	64.9	87.4	114.8
67.5°	0.0	0.0	2.5	5.0	7.5	15.0	22.5	39.9	49.9	77.4
70°	0.0	0.0	2.5	5.0	7.5	10.0	12.5	17.5	30.0	47.4
72.5°	0.0	0.0	2.5	5.0	7.5	10.0	12.5	15.0	15.0	30.0
75°	0.0	0.0	2.5	5.0	7.5	12.5	15.0	15.0	12.5	12.5
77.5°	0.0	0.0	2.5	5.0	10.0	15.0	17.5	15.0	10.0	10.0
80°	0.0	0.0	5.0	7.5	12.5	17.5	22.5	17.5	10.0	5.0
82.5°	0.0	0.0	5.0	10.0	12.5	20.0	27.5	22.5	10.0	5.0
85°	0.0	0.0	2.5	7.5	15.0	20.0	27.5	20.0	10.0	2.5
87.5°	0.0	0.0	2.5	2.5	5.0	7.5	15.0	12.5	5.0	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637277

CATALOG NUMBER: IFLD-M-SA4D-722-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
78312.3	0°	78312.3	78312.3	78312.3	78312.3	78312.3	78312.3	78312.3	78312.3	78312.3
76437.9	2.5°	76877.2	77276.5	77358.9	77249.1	77408.8	77121.8	76902.1	76333.1	75991.1
71590.8	5°	72052.5	71992.6	72409.5	72546.7	72529.3	72309.6	72002.6	71658.2	71323.7
64113.0	7.5°	64512.3	64589.7	64969.1	65211.2	65088.9	64814.3	64602.2	64342.6	64118.0
55981.2	10°	56492.9	55961.3	56433.0	56433.0	56760.0	55983.7	56056.1	55402.2	55432.1
46636.5	12.5°	46796.2	46988.4	47065.8	47287.9	46906.0	46494.2	45990.0	45890.2	45578.2
34855.7	15°	35357.4	35906.5	35434.7	36240.9	35851.6	35422.3	35344.9	34571.1	34815.7
25281.3	17.5°	25156.5	25763.0	25952.7	26414.4	26060.0	25805.4	25483.5	25248.8	25231.4
17698.6	20°	17838.4	18447.4	18587.2	19141.3	19101.4	19021.5	18749.4	18452.4	18130.4
12047.9	22.5°	12230.1	12726.8	13191.0	13937.3	13924.8	13690.2	13662.7	13243.4	13250.9
8139.2	25°	8224.1	8586.0	8695.8	9459.6	9544.4	9519.5	9377.2	8987.8	9135.1
4971.9	27.5°	4976.9	5293.9	5665.8	5935.3	6189.9	6150.0	6007.7	5790.6	5695.7
2987.6	30°	3067.5	3209.8	3347.0	3671.5	3823.8	3903.6	3836.2	3634.1	3649.1
1966.8	32.5°	2009.2	2129.0	2228.9	2433.5	2513.4	2660.7	2633.2	2590.8	2540.9
1415.2	35°	1465.1	1552.5	1619.9	1714.7	1817.0	1941.8	1961.8	1944.3	1924.4
1093.2	37.5°	1118.2	1208.0	1285.4	1325.3	1405.2	1502.6	1557.5	1555.0	1540.0
891.0	40°	908.5	975.9	1045.8	1098.2	1153.1	1225.5	1292.9	1300.4	1300.4
748.8	42.5°	758.8	816.2	886.1	941.0	980.9	1048.3	1118.2	1123.2	1118.2
634.0	45°	648.9	698.9	766.3	831.1	863.6	913.5	980.9	995.9	985.9
544.1	47.5°	564.1	609.0	666.4	736.3	771.2	816.2	878.6	896.0	893.5
469.2	50°	484.2	536.6	594.0	651.4	696.4	738.8	798.7	818.7	811.2
399.3	52.5°	426.8	474.2	524.1	586.5	639.0	676.4	723.8	758.8	748.8
337.0	55°	356.9	414.3	466.7	519.2	584.0	624.0	668.9	711.3	701.4
284.5	57.5°	309.5	356.9	416.8	464.2	529.1	576.6	621.5	666.4	663.9
232.1	60°	259.6	309.5	366.9	416.8	476.7	529.1	574.1	624.0	629.0
174.7	62.5°	204.7	264.6	314.5	371.9	431.8	489.2	529.1	579.1	586.5
132.3	65°	154.7	217.1	272.1	327.0	386.9	449.3	484.2	526.6	534.1
97.3	67.5°	114.8	167.2	232.1	282.0	344.4	404.3	436.8	471.7	484.2
59.9	70°	87.4	127.3	194.7	242.1	307.0	354.4	389.4	419.3	429.3
39.9	72.5°	54.9	99.8	157.2	207.2	264.6	307.0	332.0	349.4	364.4
22.5	75°	37.4	77.4	127.3	177.2	219.6	252.1	274.6	289.5	302.0
10.0	77.5°	22.5	59.9	104.8	147.3	174.7	199.7	222.1	232.1	239.6
7.5	80°	12.5	44.9	87.4	119.8	137.3	154.7	172.2	184.7	189.7
5.0	82.5°	7.5	34.9	69.9	92.3	99.8	117.3	134.8	142.3	142.3
2.5	85°	5.0	25.0	47.4	67.4	72.4	84.9	89.9	94.8	99.8
2.5	87.5°	5.0	15.0	30.0	37.4	39.9	44.9	47.4	52.4	57.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
78312.3
75739.0
70949.3
63356.7
55140.1
45293.7
34571.1
24767.1
17990.7
13106.1
8903.0
5613.3
3584.2
2523.4
1916.9
1532.5
1285.4
1113.2
985.9
888.6
806.2
746.3
706.3
666.4
631.5
591.5
541.6
489.2
434.3
361.9
299.5
237.1
184.7
139.8
97.3
54.9
0.0

(END OF REPORT)