

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: P638159

Luminaire Tested: **IFLD-S-SA2B-740-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638159
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-740-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8782.4 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 82.4
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

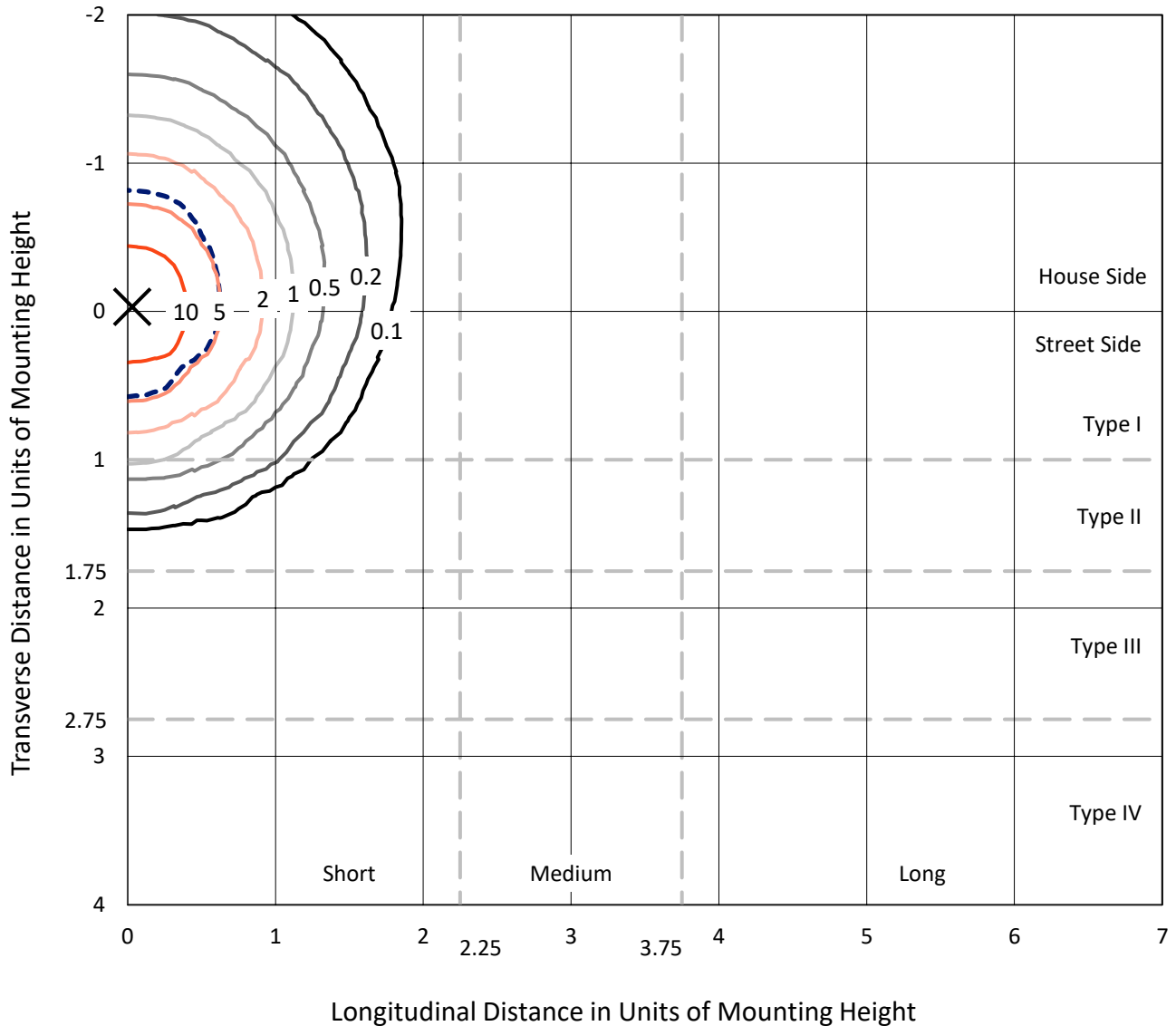




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Iso-Footcandle Lines of Horizontal Illumination

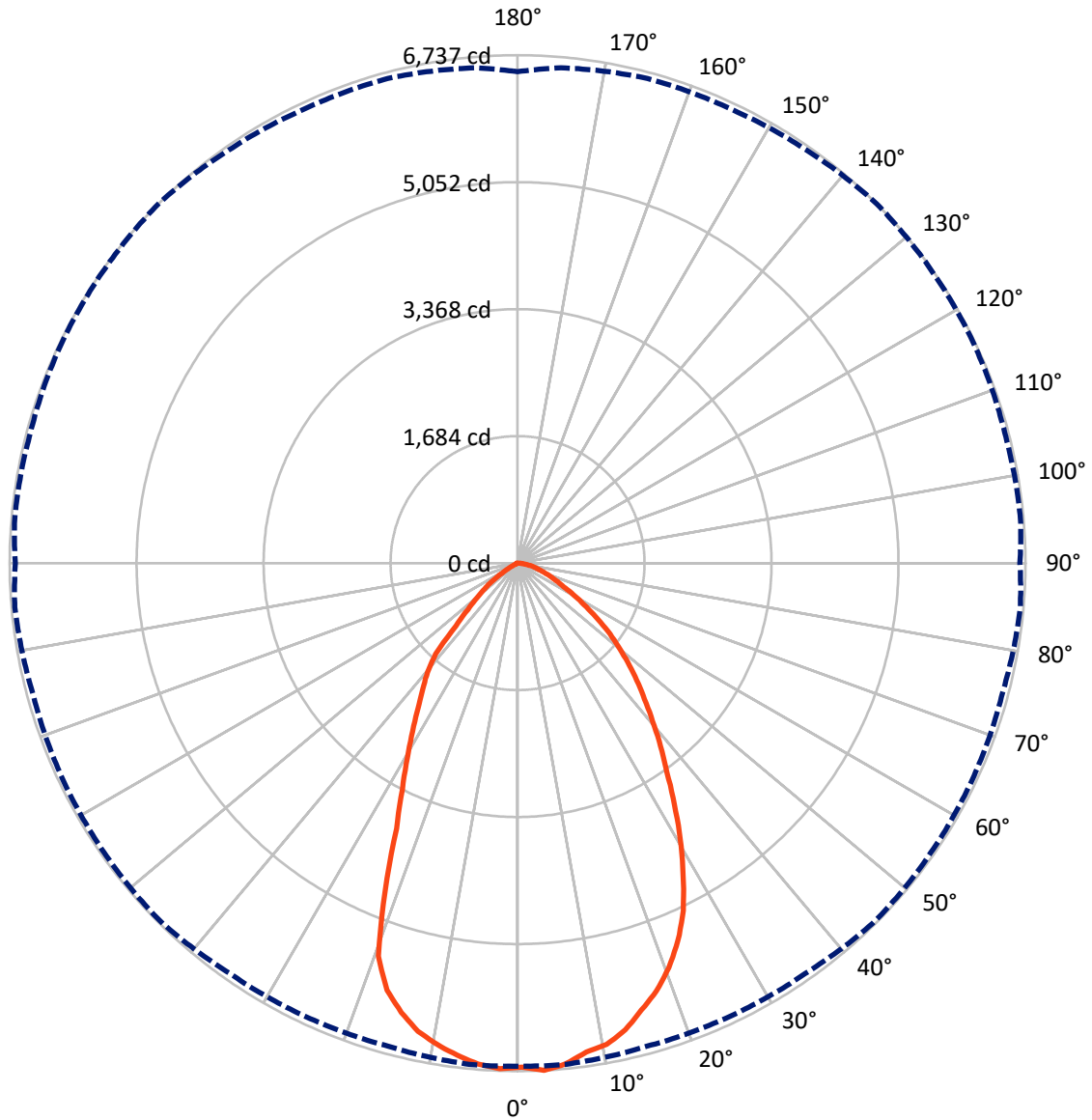
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 16.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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

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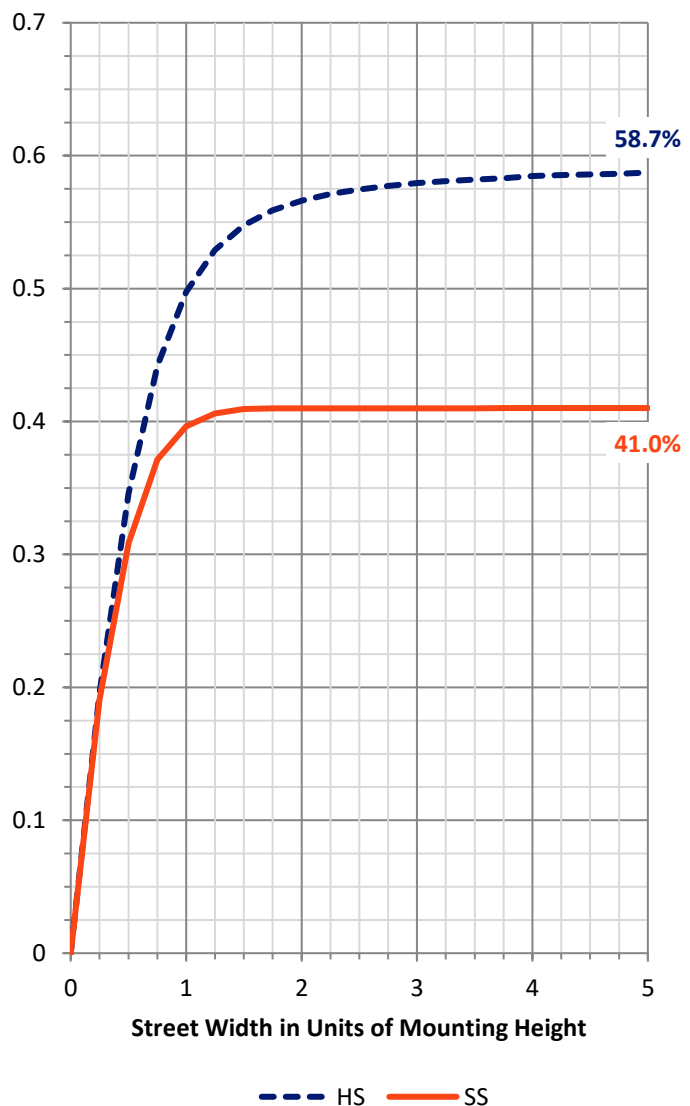
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5201.4	0.0	5201.4
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	3581.0	0.0	3581.0
	% Fixture	40.8	0.0	40.8
Total	Lumens	8782.4	0.0	8782.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	626.8	7.1
10°-20°	1680.8	19.1
20°-30°	2049.8	23.3
30°-40°	1871.5	21.3
40°-50°	1352.5	15.4
50°-60°	738.5	8.4
60°-70°	305.3	3.5
70°-80°	123.7	1.4
80°-90°	33.6	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°	8782.4	100.0
0°-180°	8782.4	100.0



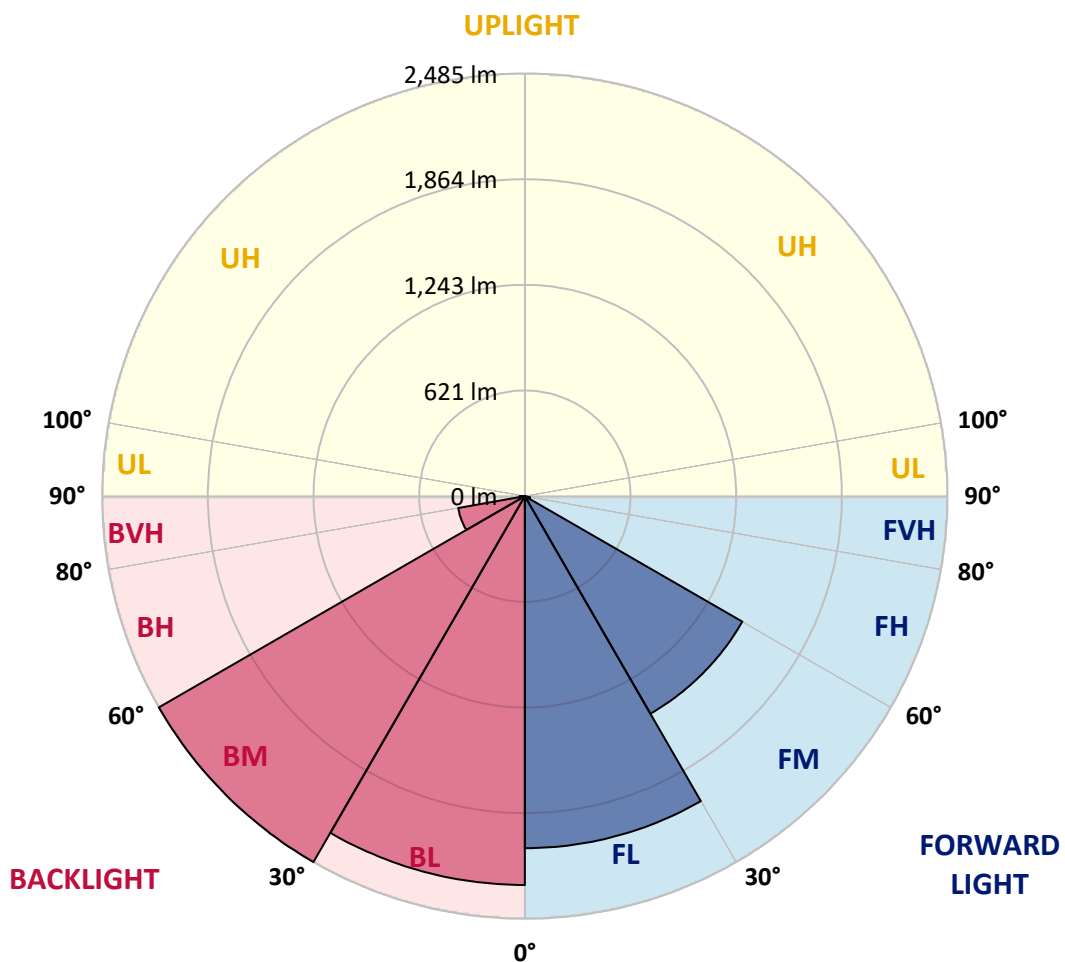
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2070.3	23.6			
FM (30°-60°)	1477.0	16.8			
FH (60°-80°)	30.9	0.4			G0/660
FVH (80°-90°)	2.7	0.0			G0/10
BL (0°-30°)	2287.1	26.0	B3/2500		
BM (30°-60°)	2485.3	28.3	B2/2500		
BH (60°-80°)	398.0	4.5	B1/500		G1/500
BVH (80°-90°)	30.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6683.4	6683.4	6683.4	6683.4	6683.4	6683.4	6683.4	6683.4	6683.4	6683.4
2.5°	6671.0	6679.6	6632.6	6637.6	6646.3	6709.3	6693.2	6678.4	6657.4	6693.2
5°	6662.3	6667.3	6617.8	6600.5	6607.9	6664.8	6612.9	6612.9	6607.9	6601.7
7.5°	6595.5	6598.0	6559.7	6528.8	6548.6	6574.5	6536.2	6554.7	6527.5	6548.6
10°	6495.4	6479.3	6433.5	6424.9	6447.1	6471.9	6445.9	6463.2	6438.5	6454.6
12.5°	6348.2	6323.5	6286.4	6275.2	6313.6	6347.0	6325.9	6316.0	6283.9	6323.5
15°	5780.5	5762.0	5846.1	5993.3	6125.6	6154.0	6131.8	6141.7	6074.9	6086.0
17.5°	4757.7	4723.1	4813.4	5162.2	5659.3	5921.5	5901.7	5837.4	5738.5	5760.7
20°	4323.7	4313.8	4303.9	4386.7	4734.2	5529.5	5556.7	5393.4	5252.4	5221.5
22.5°	4078.8	4075.1	4065.2	4083.7	4175.2	4686.0	4997.7	4846.8	4752.8	4744.1
25°	3854.9	3848.7	3819.1	3842.6	3842.6	3872.2	4271.7	4363.2	4280.4	4270.5
27.5°	3627.4	3616.2	3611.3	3622.4	3565.5	3365.2	3466.6	3913.1	3869.8	3872.2
30°	3381.3	3377.5	3363.9	3387.4	3211.8	2963.2	2898.9	3504.9	3513.6	3511.1
32.5°	3015.2	3031.3	3093.1	3119.1	2829.7	2624.4	2516.8	3032.5	3209.3	3205.6
35°	2190.3	2190.3	2391.9	2766.6	2479.7	2325.1	2266.9	2571.2	2908.8	2921.2
37.5°	1800.7	1806.9	1846.5	2017.1	2139.6	2085.1	2067.8	2164.3	2523.0	2542.7
40°	1620.1	1620.1	1620.1	1549.6	1545.9	1878.6	1868.7	1837.8	2179.1	2222.4
42.5°	1455.6	1459.4	1461.8	1283.7	1184.8	1623.8	1601.6	1554.6	1871.2	1921.9
45°	1286.2	1292.4	1299.8	1073.5	1030.2	1168.7	1355.5	1303.5	1567.0	1632.5
47.5°	785.3	795.2	963.4	910.2	915.2	901.6	1105.6	1097.0	1285.0	1377.7
50°	530.6	534.3	550.4	577.6	785.3	708.7	782.9	907.8	975.8	1116.8
52.5°	445.2	451.4	411.8	374.7	515.7	554.1	546.6	674.0	701.2	875.6
55°	312.9	332.7	314.1	310.4	293.1	430.4	414.3	518.2	535.5	665.4
57.5°	32.2	37.1	64.3	231.3	191.7	243.6	295.6	379.7	397.0	491.0
60°	2.5	2.5	6.2	32.2	139.8	145.9	204.1	233.7	267.1	342.6
62.5°	0.0	1.2	2.5	4.9	22.3	77.9	102.6	122.4	160.8	221.4
65°	0.0	0.0	1.2	3.7	4.9	29.7	39.6	64.3	87.8	137.3
67.5°	0.0	0.0	1.2	2.5	3.7	7.4	13.6	23.5	47.0	77.9
70°	0.0	0.0	1.2	2.5	3.7	6.2	9.9	14.8	21.0	42.0
72.5°	0.0	0.0	1.2	1.2	2.5	6.2	7.4	9.9	14.8	21.0
75°	0.0	0.0	1.2	1.2	3.7	7.4	6.2	7.4	9.9	13.6
77.5°	0.0	0.0	1.2	2.5	3.7	7.4	6.2	7.4	7.4	8.7
80°	0.0	0.0	1.2	2.5	4.9	8.7	7.4	7.4	6.2	6.2
82.5°	0.0	0.0	1.2	3.7	4.9	11.1	11.1	9.9	4.9	3.7
85°	0.0	0.0	2.5	4.9	7.4	12.4	12.4	9.9	3.7	2.5
87.5°	0.0	0.0	2.5	3.7	6.2	8.7	12.4	9.9	3.7	1.2
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°
6683.4	0°	6683.4	6683.4	6683.4	6683.4	6683.4	6683.4	6683.4	6683.4	6683.4
6662.3	2.5°	6695.7	6688.3	6713.0	6722.9	6736.5	6684.6	6652.4	6653.7	6594.3
6586.9	5°	6626.5	6627.7	6659.9	6657.4	6671.0	6642.5	6630.2	6609.2	6557.2
6491.7	7.5°	6538.7	6527.5	6558.4	6581.9	6547.3	6567.1	6538.7	6548.6	6517.6
6407.6	10°	6470.6	6444.7	6473.1	6489.2	6490.4	6470.6	6443.4	6417.5	6406.3
6276.5	12.5°	6319.8	6286.4	6334.6	6356.9	6353.1	6314.8	6283.9	6290.1	6254.2
6046.4	15°	6112.0	6113.2	6147.8	6168.9	6149.1	6140.4	6142.9	6128.1	6097.1
5728.6	17.5°	5794.1	5812.7	5904.2	5954.9	5966.0	5948.7	5940.1	5922.8	5891.8
5221.5	20°	5264.8	5376.1	5539.4	5696.4	5727.4	5722.4	5691.5	5684.1	5666.8
4719.4	22.5°	4799.8	4882.7	5071.9	5316.8	5442.9	5455.3	5418.2	5407.0	5388.5
4270.5	25°	4318.7	4407.7	4578.4	4844.3	5105.3	5158.5	5152.3	5118.9	5099.1
3872.2	27.5°	3913.1	4002.1	4156.7	4396.6	4676.1	4846.8	4862.9	4809.7	4808.5
3517.3	30°	3547.0	3669.4	3786.9	3982.3	4253.2	4509.2	4536.4	4499.3	4503.0
3192.0	32.5°	3260.1	3361.5	3461.6	3592.7	3817.8	4115.9	4222.2	4187.6	4174.0
2921.2	35°	2966.9	3036.2	3138.9	3258.8	3412.2	3707.8	3892.0	3866.1	3852.5
2555.1	37.5°	2633.0	2751.8	2826.0	2960.8	3080.7	3315.7	3575.4	3571.7	3543.3
2243.5	40°	2290.4	2415.4	2527.9	2663.9	2756.7	2943.4	3231.6	3230.4	3234.1
1920.7	42.5°	1980.0	2095.0	2231.1	2379.5	2468.5	2604.6	2913.8	2931.1	2952.1
1654.8	45°	1699.3	1803.2	1929.3	2109.9	2217.5	2295.4	2570.0	2649.1	2647.9
1417.3	47.5°	1447.0	1544.7	1651.1	1826.7	1963.9	2034.4	2262.0	2374.5	2367.1
1162.5	50°	1214.5	1301.1	1412.4	1539.7	1724.0	1785.9	1955.3	2103.7	2092.6
926.3	52.5°	977.0	1097.0	1191.0	1307.2	1501.4	1562.0	1693.1	1837.8	1829.1
695.0	55°	761.8	878.1	991.9	1092.0	1255.3	1345.6	1439.6	1588.0	1585.5
544.2	57.5°	576.3	703.7	811.3	906.5	1036.4	1147.7	1223.1	1357.9	1375.3
372.3	60°	426.7	524.4	640.6	747.0	849.6	964.7	1015.4	1147.7	1155.1
254.8	62.5°	290.6	398.2	512.0	608.5	685.2	803.9	849.6	958.5	972.1
163.2	65°	201.6	270.8	400.7	470.0	564.0	665.4	711.1	797.7	824.9
94.0	67.5°	133.6	192.9	312.9	376.0	468.7	538.0	596.1	666.6	696.3
59.4	70°	73.0	142.2	223.9	296.8	377.2	444.0	500.9	557.8	583.7
27.2	72.5°	49.5	95.2	155.8	235.0	304.2	369.8	420.5	462.5	463.8
16.1	75°	24.7	64.3	118.7	181.8	237.5	301.8	347.5	372.3	342.6
9.9	77.5°	14.8	47.0	96.5	145.9	192.9	243.6	269.6	283.2	235.0
7.4	80°	8.7	33.4	75.4	116.3	133.6	179.3	204.1	207.8	157.1
4.9	82.5°	6.2	24.7	59.4	85.3	81.6	126.1	153.4	148.4	100.2
3.7	85°	3.7	17.3	37.1	53.2	49.5	82.9	89.0	91.5	58.1
2.5	87.5°	2.5	9.9	19.8	28.4	23.5	35.9	35.9	43.3	28.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6683.4
6517.6
6544.8
6465.7
6356.9
6223.3
6066.2
5878.2
5627.2
5383.5
5078.1
4806.0
4484.4
4175.2
3833.9
3566.8
3234.1
2941.0
2650.3
2369.6
2102.5
1847.7
1591.7
1367.8
1166.2
974.6
818.7
692.6
573.8
452.6
320.3
226.3
147.2
92.8
53.2
24.7
0.0

(END OF REPORT)