

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: P638073

Luminaire Tested: **IFLD-S-SA2C-727-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638073
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-727-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9143.1 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

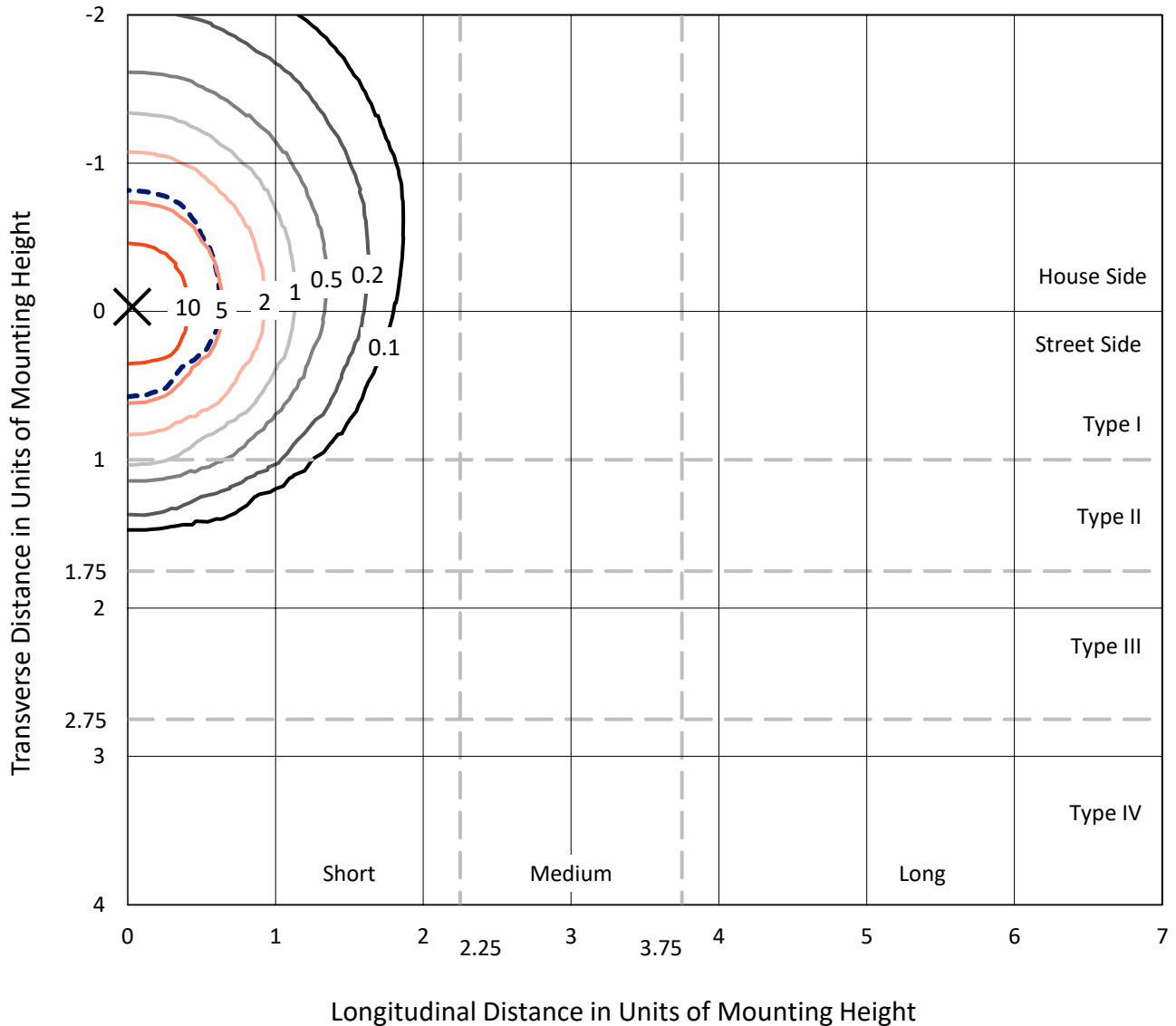
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

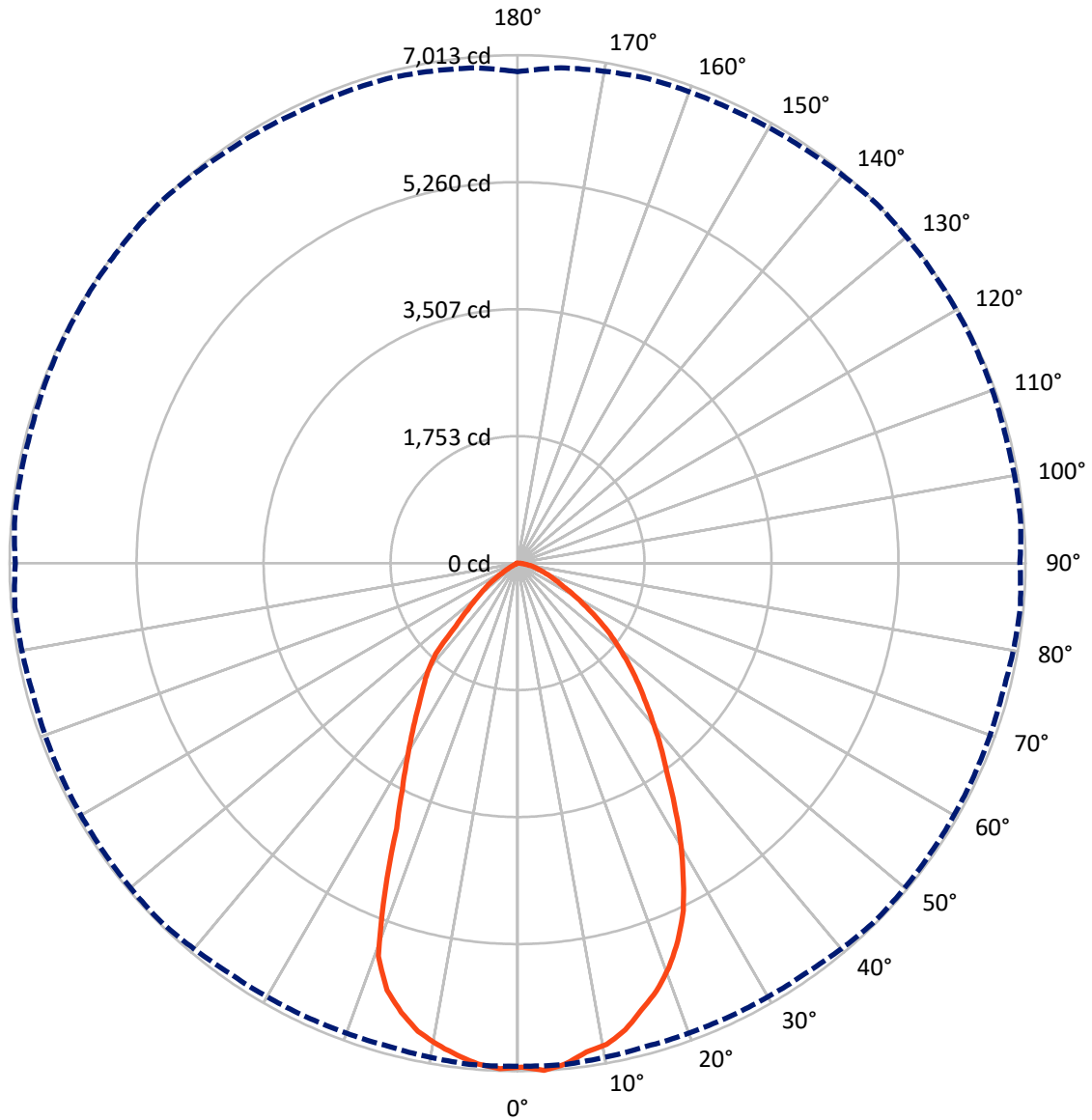
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 17.4 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	5415.0	0.0	5415.0
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	3728.1	0.0	3728.1
	% Fixture	40.8	0.0	40.8
Total	Lumens	9143.1	0.0	9143.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.5	7.1
10°-20°	1749.8	19.1
20°-30°	2134.0	23.3
30°-40°	1948.3	21.3
40°-50°	1408.0	15.4
50°-60°	768.8	8.4
60°-70°	317.9	3.5
70°-80°	128.7	1.4
80°-90°	35.0	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°	9143.1	100.0
0°-180°	9143.1	100.0



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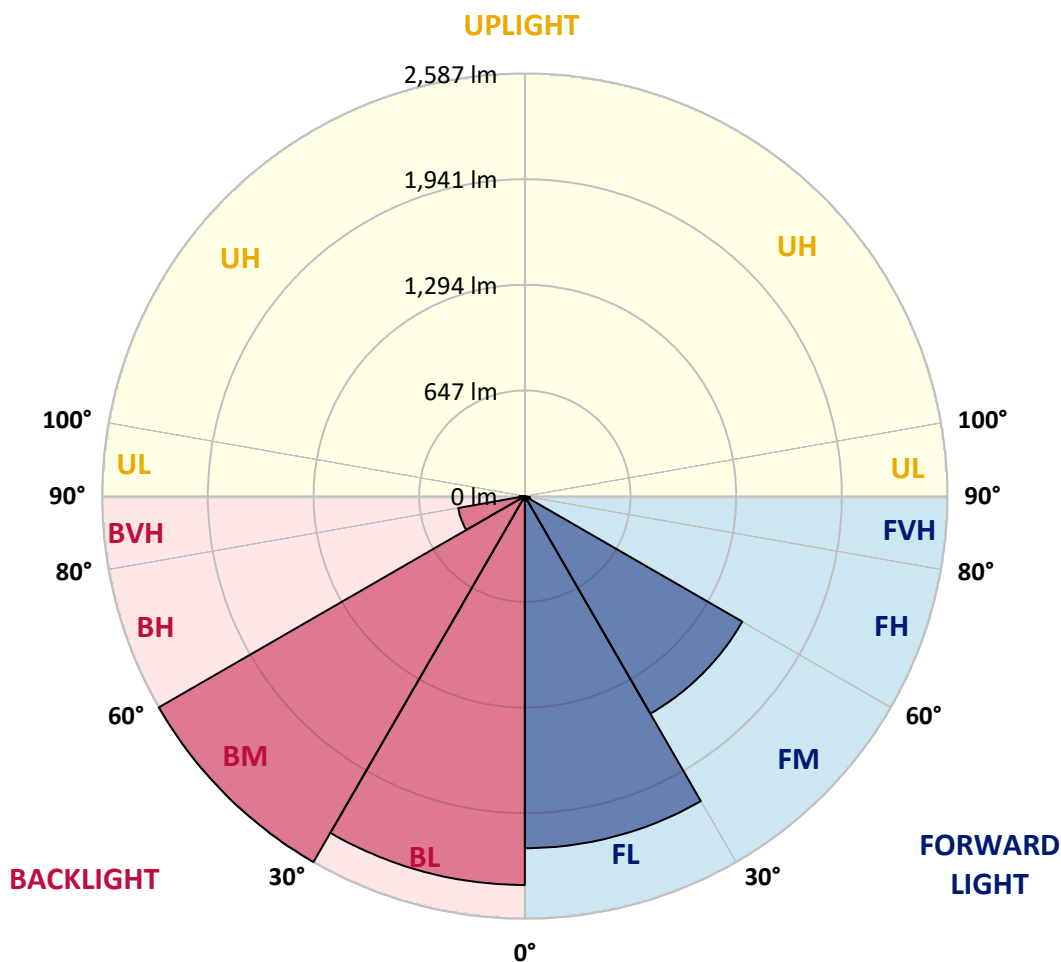
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2155.4	23.6			
FM (30°-60°)	1537.7	16.8			
FH (60°-80°)	32.2	0.4			G0/660
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	2381.0	26.0	B3/2500		
BM (30°-60°)	2587.4	28.3	B3/5000		
BH (60°-80°)	414.4	4.5	B1/500		G1/500
BVH (80°-90°)	32.2	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°	6957.8	6957.8	6957.8	6957.8	6957.8	6957.8	6957.8	6957.8	6957.8	6957.8
2.5°	6944.9	6954.0	6905.0	6910.2	6919.2	6984.9	6968.1	6952.7	6930.8	6968.1
5°	6935.9	6941.1	6889.6	6871.6	6879.3	6938.5	6884.4	6884.4	6879.3	6872.8
7.5°	6866.4	6869.0	6829.1	6796.9	6817.5	6844.5	6804.6	6823.9	6795.6	6817.5
10°	6762.1	6745.4	6697.7	6688.7	6711.9	6737.7	6710.6	6728.6	6702.9	6719.6
12.5°	6608.9	6583.2	6544.5	6532.9	6572.9	6607.6	6585.7	6575.4	6542.0	6583.2
15°	6017.9	5998.6	6086.2	6239.4	6377.1	6406.8	6383.6	6393.9	6324.4	6335.9
17.5°	4953.1	4917.1	5011.1	5374.2	5891.7	6164.7	6144.1	6077.2	5974.1	5997.3
20°	4501.2	4490.9	4480.6	4566.9	4928.7	5756.6	5784.9	5614.9	5468.1	5436.0
22.5°	4246.3	4242.4	4232.1	4251.4	4346.7	4878.5	5202.9	5045.8	4948.0	4939.0
25°	4013.2	4006.8	3975.9	4000.4	4000.4	4031.3	4447.1	4542.4	4456.1	4445.8
27.5°	3776.3	3764.7	3759.6	3771.2	3712.0	3503.4	3609.0	4073.8	4028.7	4031.3
30°	3520.1	3516.3	3502.1	3526.6	3343.7	3084.9	3018.0	3648.9	3657.9	3655.3
32.5°	3139.0	3155.7	3220.1	3247.2	2945.9	2732.1	2620.1	3157.0	3341.1	3337.3
35°	2280.2	2280.2	2490.1	2880.2	2581.5	2420.6	2360.0	2676.8	3028.3	3041.2
37.5°	1874.6	1881.1	1922.3	2100.0	2227.4	2170.8	2152.8	2253.2	2626.6	2647.2
40°	1686.7	1686.7	1686.7	1613.3	1609.4	1955.8	1945.5	1913.3	2268.6	2313.7
42.5°	1515.4	1519.3	1521.9	1336.5	1233.5	1690.5	1667.4	1618.4	1948.0	2000.8
45°	1339.0	1345.5	1353.2	1117.6	1072.5	1216.7	1411.1	1357.1	1631.3	1699.5
47.5°	817.6	827.9	1003.0	947.6	952.8	938.6	1151.1	1142.0	1337.7	1434.3
50°	552.4	556.2	573.0	601.3	817.6	737.8	815.0	945.0	1015.9	1162.6
52.5°	463.5	469.9	428.7	390.1	536.9	576.8	569.1	701.7	730.0	911.6
55°	325.7	346.3	327.0	323.2	305.1	448.1	431.3	539.5	557.5	692.7
57.5°	33.5	38.6	67.0	240.8	199.6	253.6	307.7	395.3	413.3	511.2
60°	2.6	2.6	6.4	33.5	145.5	151.9	212.4	243.3	278.1	356.6
62.5°	0.0	1.3	2.6	5.2	23.2	81.1	106.9	127.5	167.4	230.5
65°	0.0	0.0	1.3	3.9	5.2	30.9	41.2	67.0	91.4	142.9
67.5°	0.0	0.0	1.3	2.6	3.9	7.7	14.2	24.5	48.9	81.1
70°	0.0	0.0	1.3	2.6	3.9	6.4	10.3	15.5	21.9	43.8
72.5°	0.0	0.0	1.3	1.3	2.6	6.4	7.7	10.3	15.5	21.9
75°	0.0	0.0	1.3	1.3	3.9	7.7	6.4	7.7	10.3	14.2
77.5°	0.0	0.0	1.3	2.6	3.9	7.7	6.4	7.7	7.7	9.0
80°	0.0	0.0	1.3	2.6	5.2	9.0	7.7	7.7	6.4	6.4
82.5°	0.0	0.0	1.3	3.9	5.2	11.6	11.6	10.3	5.2	3.9
85°	0.0	0.0	2.6	5.2	7.7	12.9	12.9	10.3	3.9	2.6
87.5°	0.0	0.0	2.6	3.9	6.4	9.0	12.9	10.3	3.9	1.3
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°
6957.8	0°	6957.8	6957.8	6957.8	6957.8	6957.8	6957.8	6957.8	6957.8	6957.8
6935.9	2.5°	6970.7	6963.0	6988.7	6999.0	7013.2	6959.1	6925.6	6926.9	6865.1
6857.4	5°	6898.6	6899.9	6933.4	6930.8	6944.9	6915.3	6902.5	6880.6	6826.5
6758.3	7.5°	6807.2	6795.6	6827.8	6852.2	6816.2	6836.8	6807.2	6817.5	6785.3
6670.7	10°	6736.4	6709.3	6738.9	6755.7	6757.0	6736.4	6708.0	6681.0	6669.4
6534.2	12.5°	6579.3	6544.5	6594.7	6617.9	6614.1	6574.1	6542.0	6548.4	6511.0
6294.7	15°	6363.0	6364.3	6400.3	6422.2	6401.6	6392.6	6395.2	6379.7	6347.5
5963.8	17.5°	6032.1	6051.4	6146.7	6199.5	6211.1	6193.0	6184.0	6166.0	6133.8
5436.0	20°	5481.0	5596.9	5766.9	5930.4	5962.6	5957.4	5925.2	5917.5	5899.5
4913.2	22.5°	4996.9	5083.2	5280.2	5535.1	5666.4	5679.3	5640.7	5629.1	5609.8
4445.8	25°	4496.1	4588.8	4766.4	5043.3	5314.9	5370.3	5363.9	5329.1	5308.5
4031.3	27.5°	4073.8	4166.5	4327.4	4577.2	4868.2	5045.8	5062.6	5007.2	5005.9
3661.7	30°	3692.6	3820.1	3942.4	4145.9	4427.8	4694.3	4722.7	4684.0	4687.9
3323.1	32.5°	3393.9	3499.5	3603.8	3740.3	3974.6	4284.9	4395.6	4359.6	4345.4
3041.2	35°	3088.8	3160.9	3267.8	3392.6	3552.3	3860.0	4051.9	4024.8	4010.7
2660.0	37.5°	2741.2	2864.8	2942.0	3082.4	3207.2	3451.9	3722.3	3718.4	3688.8
2335.6	40°	2384.5	2514.6	2631.7	2773.3	2869.9	3064.3	3364.3	3363.0	3366.9
1999.5	42.5°	2061.3	2181.1	2322.7	2477.2	2569.9	2711.5	3033.4	3051.5	3073.3
1722.7	45°	1769.1	1877.2	2008.6	2196.5	2308.5	2389.7	2675.5	2757.9	2756.6
1475.5	47.5°	1506.4	1608.1	1718.9	1901.7	2044.6	2118.0	2354.9	2472.1	2464.3
1210.3	50°	1264.4	1354.5	1470.4	1603.0	1794.8	1859.2	2035.6	2190.1	2178.5
964.4	52.5°	1017.2	1142.0	1239.9	1360.9	1563.1	1626.2	1762.6	1913.3	1904.3
723.6	55°	793.1	914.1	1032.6	1136.9	1306.8	1400.8	1498.7	1653.2	1650.6
566.5	57.5°	600.0	732.6	844.6	943.8	1079.0	1194.8	1273.4	1413.7	1431.7
387.5	60°	444.2	545.9	666.9	777.7	884.5	1004.3	1057.1	1194.8	1202.6
265.2	62.5°	302.6	414.6	533.0	633.5	713.3	836.9	884.5	997.8	1012.0
170.0	65°	209.9	282.0	417.2	489.3	587.1	692.7	740.3	830.5	858.8
97.9	67.5°	139.1	200.9	325.7	391.4	488.0	560.1	620.6	694.0	724.9
61.8	70°	76.0	148.1	233.0	309.0	392.7	462.2	521.5	580.7	607.7
28.3	72.5°	51.5	99.1	162.2	244.6	316.7	385.0	437.8	481.5	482.8
16.7	75°	25.8	67.0	123.6	189.3	247.2	314.2	361.8	387.5	356.6
10.3	77.5°	15.5	48.9	100.4	151.9	200.9	253.6	280.7	294.8	244.6
7.7	80°	9.0	34.8	78.5	121.0	139.1	186.7	212.4	216.3	163.5
5.2	82.5°	6.4	25.8	61.8	88.8	85.0	131.3	159.7	154.5	104.3
3.9	85°	3.9	18.0	38.6	55.4	51.5	86.3	92.7	95.3	60.5
2.6	87.5°	2.6	10.3	20.6	29.6	24.5	37.3	37.3	45.1	29.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6957.8
6785.3
6813.6
6731.2
6617.9
6478.9
6315.3
6119.6
5858.3
5604.6
5286.6
5003.3
4668.6
4346.7
3991.3
3713.2
3366.9
3061.8
2759.2
2466.9
2188.8
1923.6
1657.1
1424.0
1214.1
1014.6
852.3
721.0
597.4
471.2
333.5
235.6
153.2
96.6
55.4
25.8
0.0

(END OF REPORT)