

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: P638254

Luminaire Tested: **IFLD-S-SA3E-827-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638254
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-827-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15251.5 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

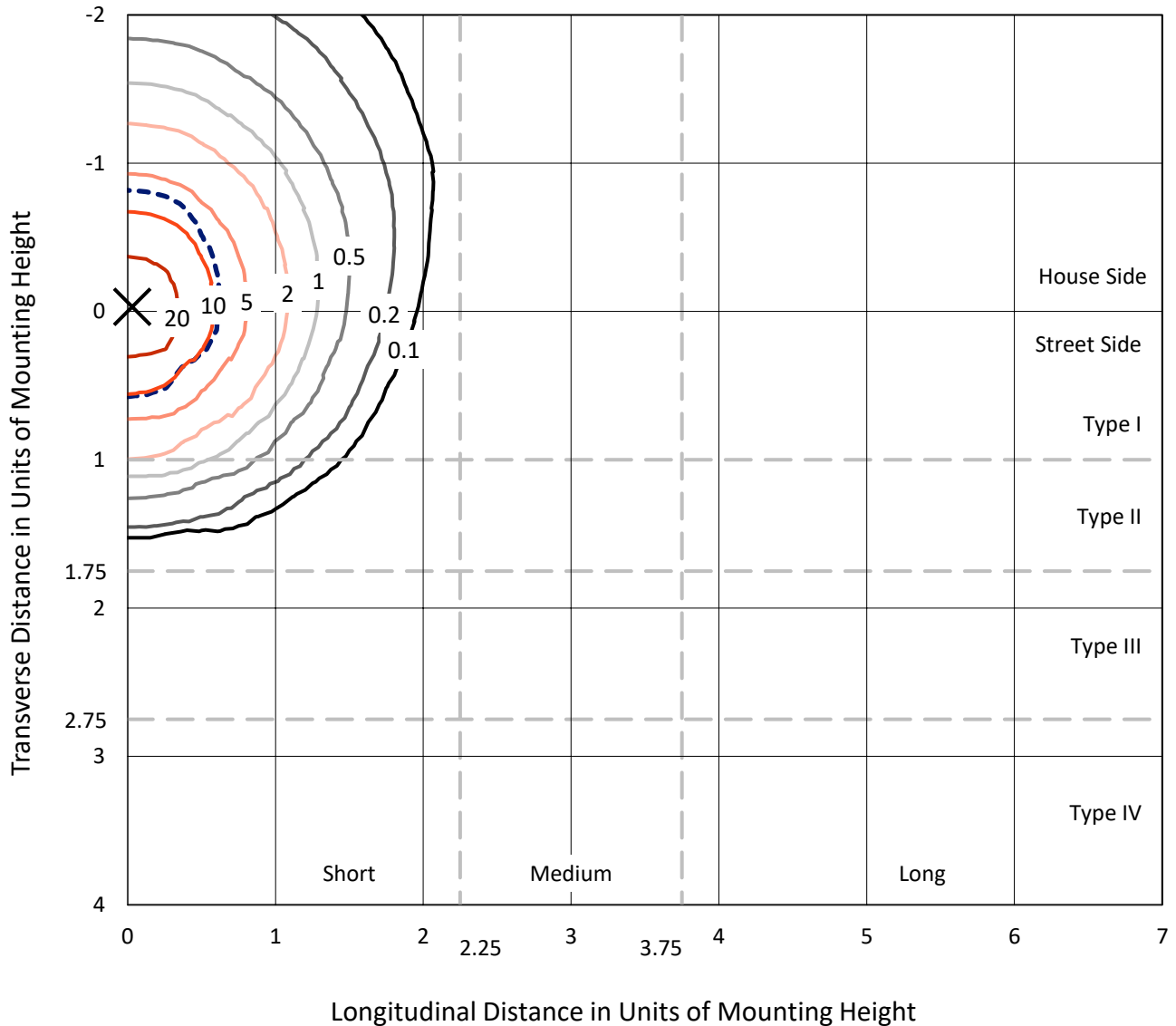
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

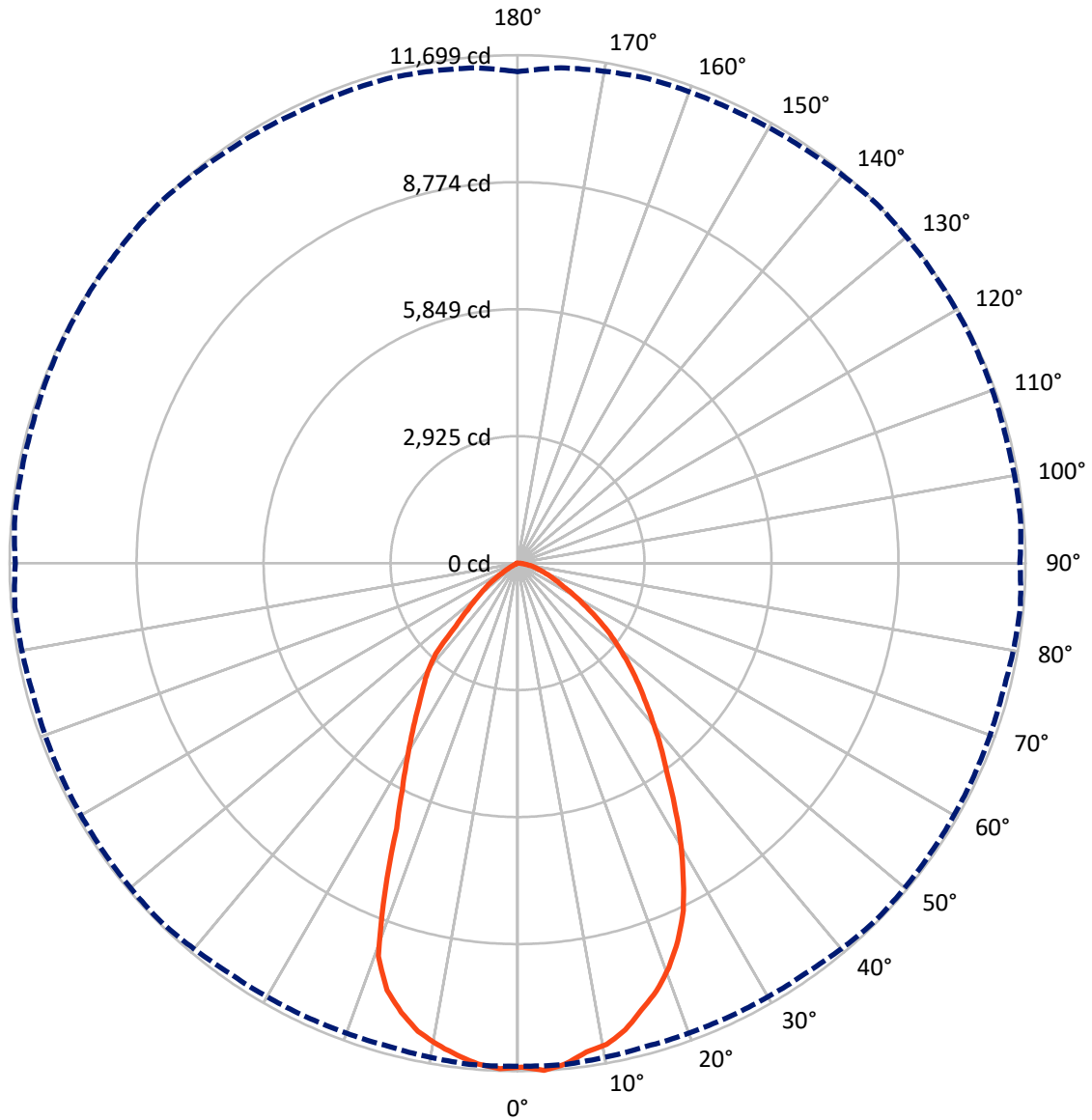
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 29 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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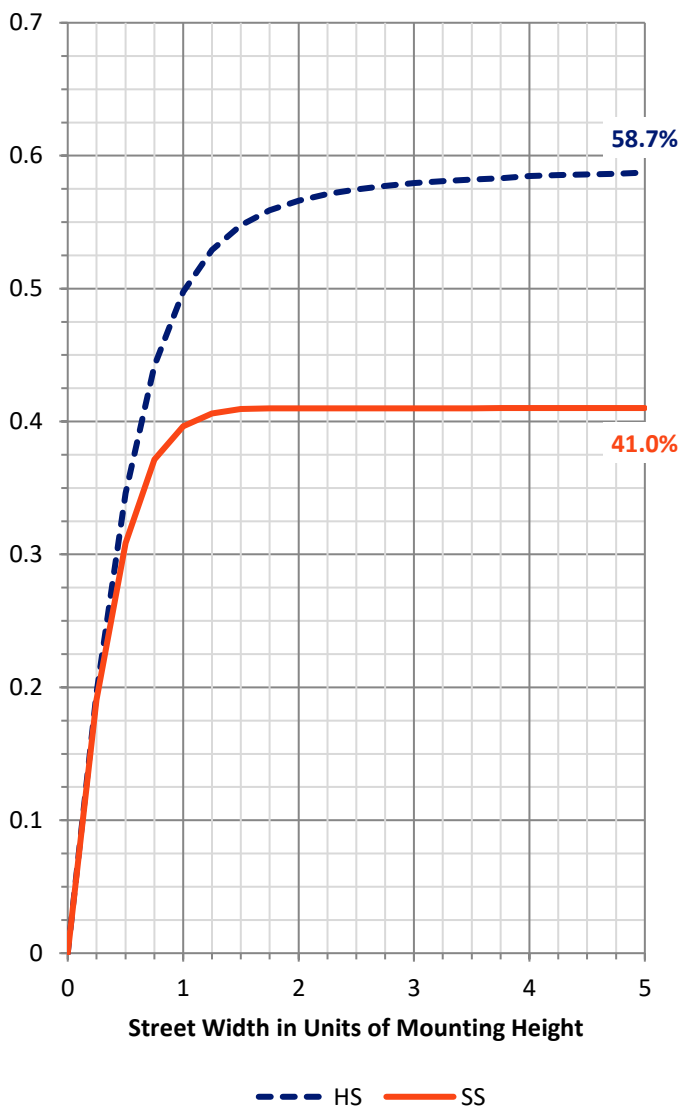
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9032.7	0.0	9032.7
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	6218.8	0.0	6218.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	15251.5	0.0	15251.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1088.5	7.1
10°-20°	2918.9	19.1
20°-30°	3559.7	23.3
30°-40°	3250.0	21.3
40°-50°	2348.7	15.4
50°-60°	1282.4	8.4
60°-70°	530.2	3.5
70°-80°	214.7	1.4
80°-90°	58.4	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°	15251.5	100.0
0°-180°	15251.5	100.0



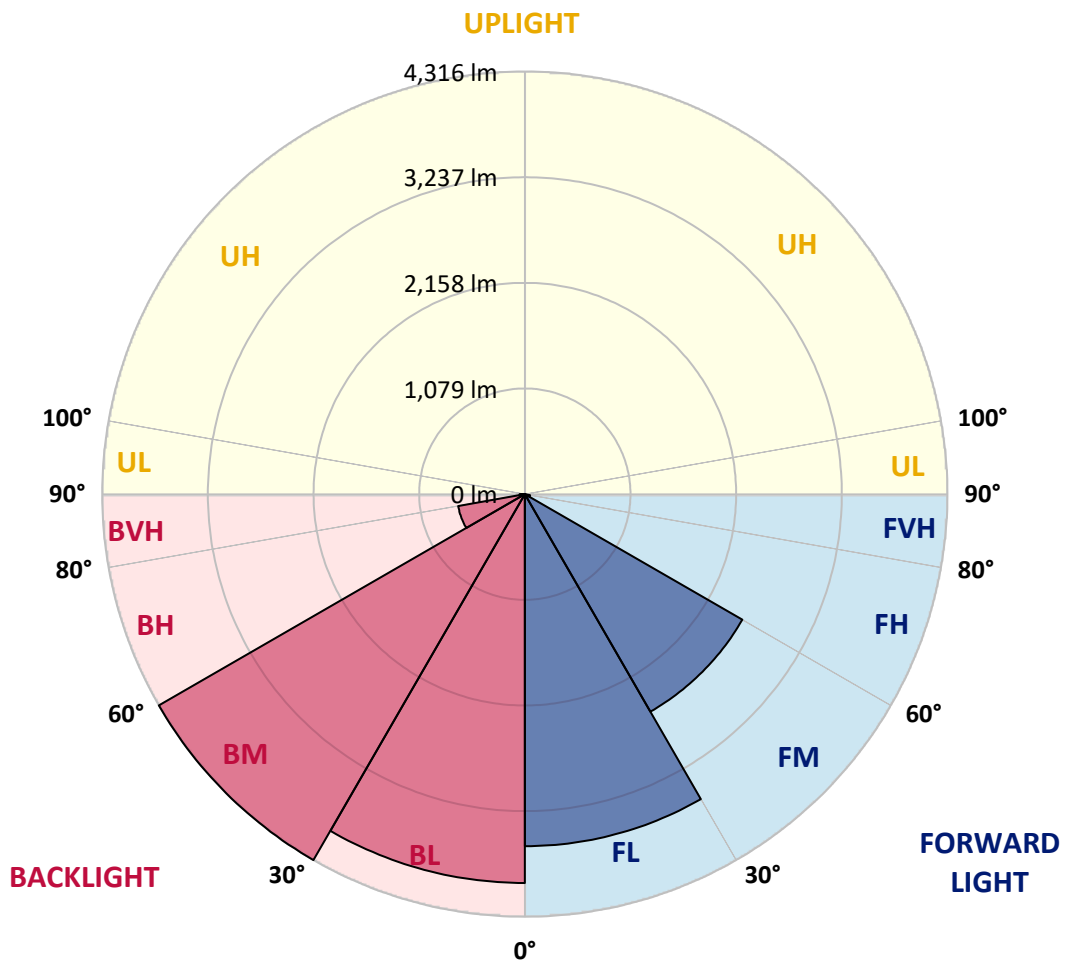
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3595.3	23.6			
FM (30°-60°)	2565.0	16.8			
FH (60°-80°)	53.7	0.4			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	3971.7	26.0	B4/5000		
BM (30°-60°)	4316.0	28.3	B3/5000		
BH (60°-80°)	691.2	4.5	B2/1000		G2/1000
BVH (80°-90°)	53.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11606.3	11606.3	11606.3	11606.3	11606.3	11606.3	11606.3	11606.3	11606.3	11606.3
2.5°	11584.8	11599.9	11518.3	11526.9	11541.9	11651.4	11623.5	11597.7	11561.2	11623.5
5°	11569.8	11578.4	11492.5	11462.4	11475.3	11574.1	11483.9	11483.9	11475.3	11464.6
7.5°	11453.8	11458.1	11391.5	11337.9	11372.2	11417.3	11350.7	11383.0	11335.7	11372.2
10°	11279.9	11251.9	11172.5	11157.4	11196.1	11239.1	11194.0	11224.0	11181.1	11209.0
12.5°	11024.3	10981.3	10916.9	10897.6	10964.1	11022.1	10985.6	10968.4	10912.6	10981.3
15°	10038.5	10006.3	10152.3	10407.9	10637.7	10687.1	10648.4	10665.6	10549.6	10569.0
17.5°	8262.3	8202.2	8359.0	8964.6	9828.0	10283.3	10249.0	10137.3	9965.5	10004.1
20°	7508.5	7491.3	7474.1	7618.0	8221.5	9602.5	9649.7	9366.2	9121.4	9067.7
22.5°	7083.2	7076.8	7059.6	7091.8	7250.7	8137.7	8679.0	8416.9	8253.7	8238.7
25°	6694.5	6683.7	6632.2	6673.0	6673.0	6724.5	7418.3	7577.2	7433.3	7416.1
27.5°	6299.3	6280.0	6271.4	6290.7	6191.9	5844.0	6020.1	6795.4	6720.2	6724.5
30°	5871.9	5865.4	5841.8	5882.6	5577.6	5146.0	5034.3	6086.7	6101.7	6097.4
32.5°	5236.2	5264.1	5371.5	5416.6	4914.0	4557.5	4370.6	5266.2	5573.4	5566.9
35°	3803.6	3803.6	4153.7	4804.5	4306.2	4037.7	3936.8	4465.1	5051.5	5072.9
37.5°	3127.1	3137.8	3206.6	3502.9	3715.6	3621.1	3591.0	3758.5	4381.4	4415.7
40°	2813.5	2813.5	2813.5	2691.1	2684.7	3262.4	3245.2	3191.5	3784.3	3859.5
42.5°	2527.9	2534.3	2538.6	2229.3	2057.5	2820.0	2781.3	2699.7	3249.5	3337.6
45°	2233.6	2244.4	2257.3	1864.2	1789.1	2029.6	2353.9	2263.7	2721.2	2835.0
47.5°	1363.8	1381.0	1673.1	1580.7	1589.3	1565.7	1920.1	1905.0	2231.5	2392.6
50°	921.4	927.8	955.7	1003.0	1363.8	1230.6	1359.5	1576.4	1694.6	1939.4
52.5°	773.2	783.9	715.2	650.8	895.6	962.2	949.3	1170.5	1217.8	1520.6
55°	543.4	577.7	545.5	539.1	509.0	747.4	719.5	899.9	930.0	1155.5
57.5°	55.8	64.4	111.7	401.6	332.9	423.1	513.3	659.4	689.4	852.6
60°	4.3	4.3	10.7	55.8	242.7	253.4	354.4	405.9	463.9	594.9
62.5°	0.0	2.1	4.3	8.6	38.7	135.3	178.3	212.6	279.2	384.4
65°	0.0	0.0	2.1	6.4	8.6	51.5	68.7	111.7	152.5	238.4
67.5°	0.0	0.0	2.1	4.3	6.4	12.9	23.6	40.8	81.6	135.3
70°	0.0	0.0	2.1	4.3	6.4	10.7	17.2	25.8	36.5	73.0
72.5°	0.0	0.0	2.1	2.1	4.3	10.7	12.9	17.2	25.8	36.5
75°	0.0	0.0	2.1	2.1	6.4	12.9	10.7	12.9	17.2	23.6
77.5°	0.0	0.0	2.1	4.3	6.4	12.9	10.7	12.9	12.9	15.0
80°	0.0	0.0	2.1	4.3	8.6	15.0	12.9	12.9	10.7	10.7
82.5°	0.0	0.0	2.1	6.4	8.6	19.3	19.3	17.2	8.6	6.4
85°	0.0	0.0	4.3	8.6	12.9	21.5	21.5	17.2	6.4	4.3
87.5°	0.0	0.0	4.3	6.4	10.7	15.0	21.5	17.2	6.4	2.1
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°
11606.3	0°	11606.3	11606.3	11606.3	11606.3	11606.3	11606.3	11606.3	11606.3	11606.3
11569.8	2.5°	11627.8	11614.9	11657.9	11675.0	11698.7	11608.5	11552.6	11554.8	11451.7
11438.8	5°	11507.5	11509.7	11565.5	11561.2	11584.8	11535.4	11514.0	11477.5	11387.3
11273.4	7.5°	11355.0	11335.7	11389.4	11430.2	11370.1	11404.4	11355.0	11372.2	11318.5
11127.4	10°	11236.9	11191.8	11241.2	11269.1	11271.3	11236.9	11189.7	11144.6	11125.2
10899.7	12.5°	10974.9	10916.9	11000.7	11039.3	11032.9	10966.3	10912.6	10923.3	10861.1
10500.2	15°	10614.1	10616.2	10676.4	10712.9	10678.5	10663.5	10667.8	10642.0	10588.3
9948.3	17.5°	10062.1	10094.3	10253.3	10341.3	10360.6	10330.6	10315.5	10285.5	10231.8
9067.7	20°	9142.9	9336.2	9619.7	9892.4	9946.1	9937.5	9883.8	9871.0	9840.9
8195.7	22.5°	8335.3	8479.2	8807.8	9233.1	9452.1	9473.6	9409.2	9389.9	9357.6
7416.1	25°	7499.9	7654.5	7950.9	8412.6	8865.8	8958.2	8947.4	8889.4	8855.1
6724.5	27.5°	6795.4	6950.0	7218.5	7635.2	8120.6	8416.9	8444.9	8352.5	8350.4
6108.1	30°	6159.7	6372.3	6576.3	6915.7	7386.0	7830.6	7877.9	7813.4	7819.9
5543.3	32.5°	5661.4	5837.5	6011.5	6239.1	6630.0	7147.6	7332.3	7272.2	7248.6
5072.9	35°	5152.4	5272.7	5450.9	5659.3	5925.6	6438.9	6758.9	6713.8	6690.2
4437.2	37.5°	4572.5	4778.7	4907.6	5141.7	5350.0	5758.1	6209.1	6202.6	6153.2
3896.0	40°	3977.6	4194.5	4390.0	4626.2	4787.3	5111.6	5612.0	5609.9	5616.3
3335.4	42.5°	3438.5	3638.3	3874.5	4132.2	4286.9	4523.1	5060.0	5090.1	5126.6
2873.7	45°	2951.0	3131.4	3350.5	3664.0	3850.9	3986.2	4463.0	4600.4	4598.3
2461.3	47.5°	2512.8	2682.5	2867.2	3172.2	3410.6	3533.0	3928.2	4123.6	4110.8
2018.9	50°	2109.1	2259.4	2452.7	2673.9	2993.9	3101.3	3395.6	3653.3	3634.0
1608.6	52.5°	1696.7	1905.0	2068.3	2270.1	2607.3	2712.6	2940.2	3191.5	3176.5
1207.0	55°	1323.0	1524.9	1722.5	1896.4	2179.9	2336.7	2500.0	2757.7	2753.4
945.0	57.5°	1000.8	1222.1	1408.9	1574.3	1799.8	1993.1	2124.1	2358.2	2388.3
646.5	60°	741.0	910.6	1112.5	1297.2	1475.5	1675.2	1763.3	1993.1	2006.0
442.4	62.5°	504.7	691.6	889.2	1056.7	1189.8	1396.0	1475.5	1664.5	1688.1
283.5	65°	350.1	470.4	695.9	816.1	979.4	1155.5	1234.9	1385.3	1432.5
163.2	67.5°	232.0	335.0	543.4	652.9	814.0	934.3	1035.2	1157.6	1209.2
103.1	70°	126.7	247.0	388.7	515.5	655.1	771.0	869.8	968.6	1013.7
47.3	72.5°	85.9	165.4	270.6	408.1	528.3	642.2	730.2	803.3	805.4
27.9	75°	43.0	111.7	206.2	315.7	412.4	524.0	603.5	646.5	594.9
17.2	77.5°	25.8	81.6	167.5	253.4	335.0	423.1	468.2	491.8	408.1
12.9	80°	15.0	58.0	131.0	201.9	232.0	311.4	354.4	360.8	272.8
8.6	82.5°	10.7	43.0	103.1	148.2	141.8	219.1	266.3	257.7	174.0
6.4	85°	6.4	30.1	64.4	92.4	85.9	143.9	154.6	158.9	100.9
4.3	87.5°	4.3	17.2	34.4	49.4	40.8	62.3	62.3	75.2	49.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11606.3
11318.5
11365.8
11228.3
11039.3
10807.4
10534.6
10208.1
9772.2
9349.1
8818.6
8346.1
7787.7
7250.7
6658.0
6194.0
5616.3
5107.3
4602.6
4115.0
3651.1
3208.7
2764.1
2375.4
2025.3
1692.4
1421.8
1202.7
996.5
786.1
556.3
393.0
255.6
161.1
92.4
43.0
0.0

(END OF REPORT)