

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: P637476

Luminaire Tested: **IFLD-S-SA6E-827-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637476
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-827-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (96) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37514.8 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

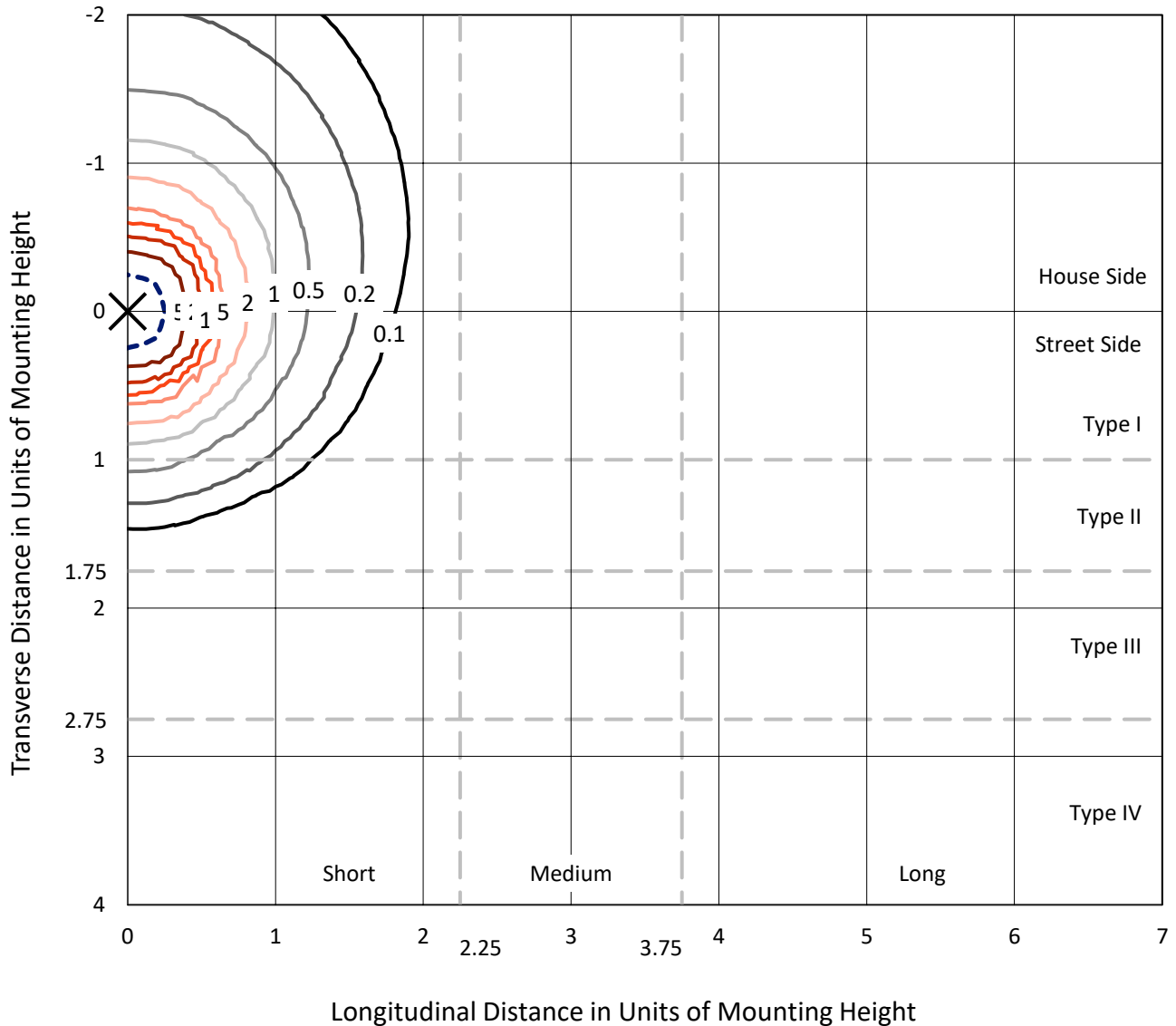
Input Watts (W): 464.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

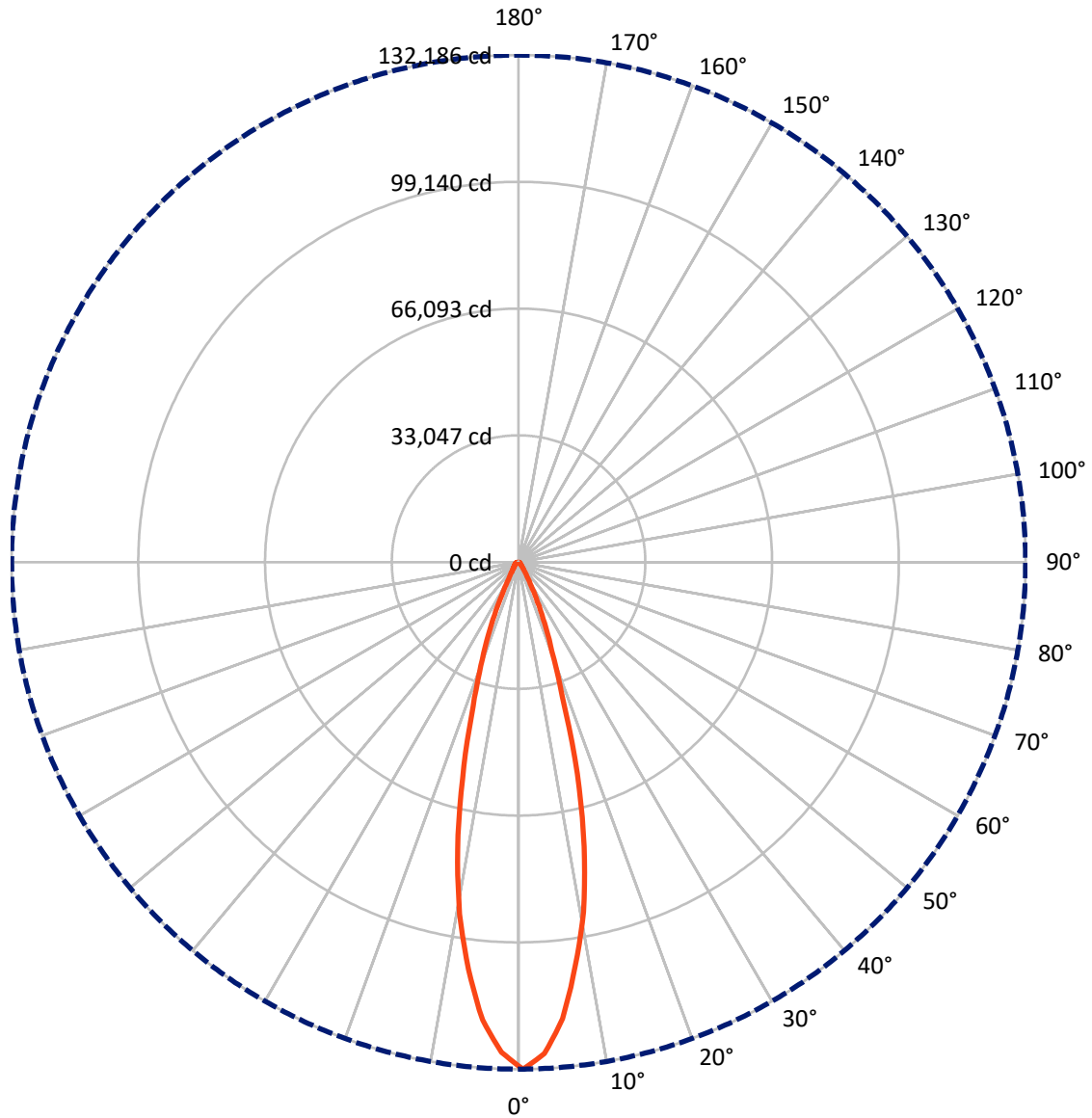
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 330.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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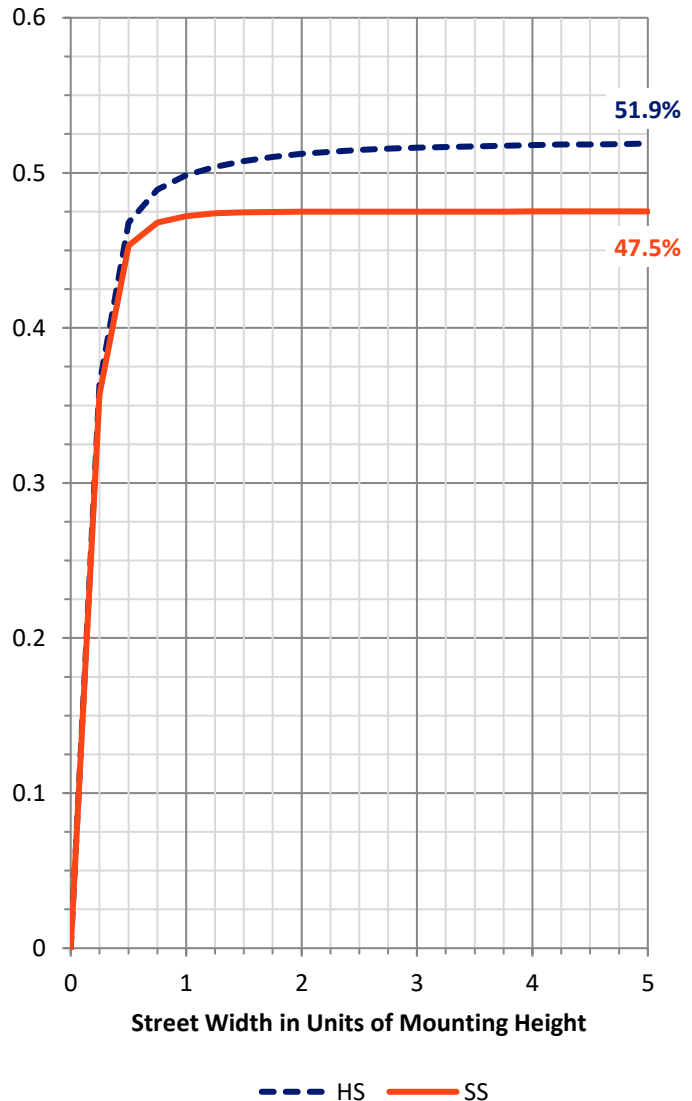
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19780.3	0.0	19780.3
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	17734.5	0.0	17734.5
	% Fixture	47.3	0.0	47.3
Total	Lumens	37514.8	0.0	37514.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10668.6	28.4
10°-20°	16157.5	43.1
20°-30°	6818.5	18.2
30°-40°	1778.3	4.7
40°-50°	899.5	2.4
50°-60°	587.9	1.6
60°-70°	352.2	0.9
70°-80°	185.3	0.5
80°-90°	66.9	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°	37514.8	100.0
0°-180°	37514.8	100.0



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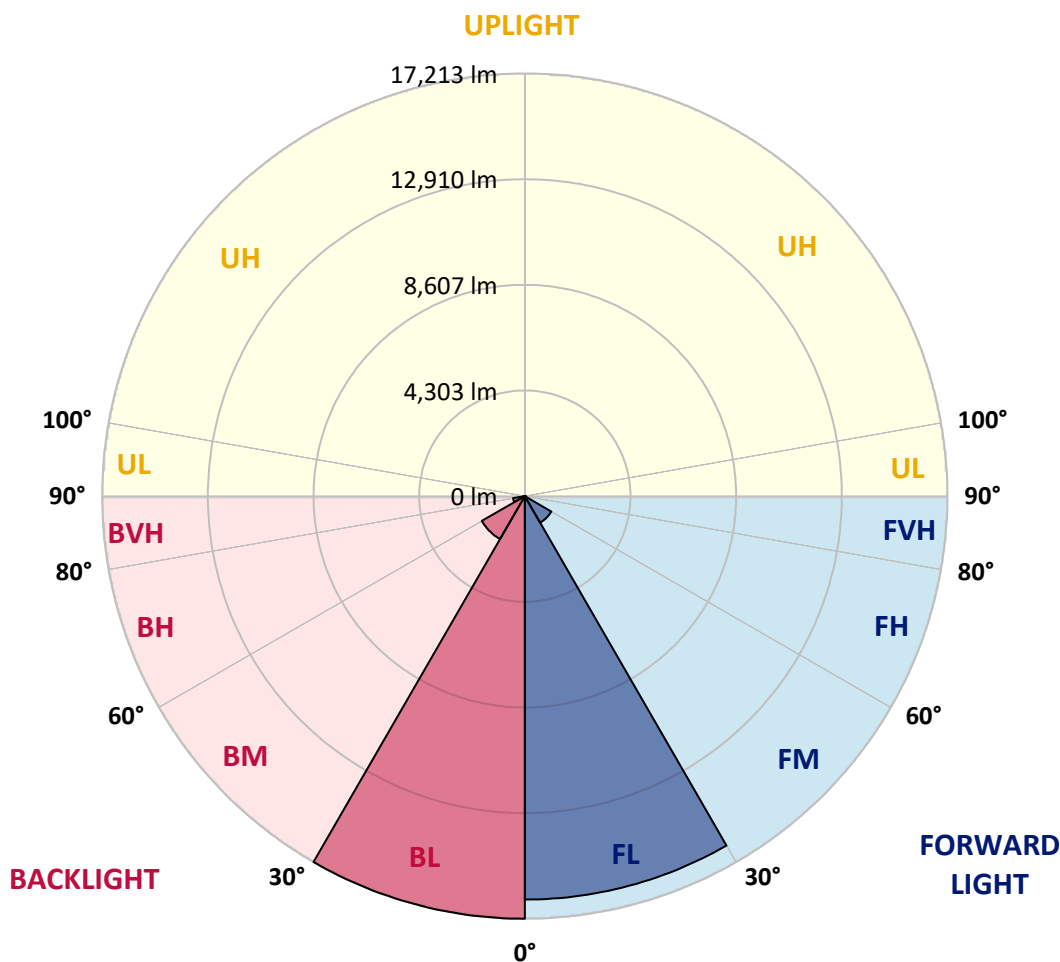
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	16431.3	43.8			
FM (30°-60°)	1244.4	3.3			
FH (60°-80°)	50.7	0.1			G0/660
FVH (80°-90°)	8.1	0.0			G0/10
BL (0°-30°)	17213.4	45.9	B5		
BM (30°-60°)	2021.3	5.4	B2/2500		
BH (60°-80°)	486.8	1.3	B1/500		G0/660
BVH (80°-90°)	58.8	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°	132186.1	132186.1	132186.1	132186.1	132186.1	132186.1	132186.1	132186.1	132186.1	132186.1
2.5°	128335.4	128407.1	128141.6	128714.6	128268.0	129464.5	128870.5	129797.3	129485.6	130003.8
5°	119572.5	119454.5	119378.7	120267.6	120010.6	121295.6	120474.0	120204.4	121038.6	120886.9
7.5°	106339.5	106651.3	106474.3	106706.1	106836.7	108302.8	108766.2	108403.9	108416.5	108627.2
10°	92773.8	92314.6	91661.6	92095.5	93013.9	93654.3	93397.3	93928.1	93810.2	94311.5
12.5°	76082.0	76444.3	76077.8	75690.2	77295.3	77118.4	77565.0	77855.7	77126.8	78748.8
15°	57309.0	57498.6	57945.2	57915.7	59150.1	59398.6	59339.7	59647.2	59078.5	59348.1
17.5°	36817.1	37457.5	38658.2	40688.8	42972.3	43237.7	43170.3	42917.5	42643.7	42340.3
20°	24730.1	24662.7	25096.7	25690.7	30417.6	31668.9	31631.0	30838.9	29693.0	29473.9
22.5°	17323.7	17450.1	17391.1	17980.9	18958.4	22408.8	21983.3	21178.6	20803.6	20559.3
25°	11396.1	11349.7	11644.6	11821.6	12660.0	13081.3	14572.7	14273.5	13696.4	13759.6
27.5°	6947.2	7006.2	7115.7	7267.4	7861.4	7726.6	8577.6	8691.4	8506.0	8308.0
30°	4263.5	4305.7	4394.1	4503.7	4710.1	4562.6	4798.6	5207.2	5139.8	5000.8
32.5°	2894.3	2898.5	2961.7	3003.8	2978.6	2839.5	2915.4	3303.0	3311.4	3298.8
35°	2081.2	2081.2	2140.2	2173.9	2102.3	1988.5	2001.2	2241.3	2346.6	2367.7
37.5°	1436.6	1440.8	1541.9	1643.1	1563.0	1533.5	1483.0	1643.1	1811.6	1836.9
40°	1091.2	1086.9	1137.5	1213.3	1221.8	1167.0	1183.8	1285.0	1457.7	1478.8
42.5°	884.7	888.9	914.2	905.8	910.0	981.6	1006.9	1053.2	1213.3	1251.3
45°	745.7	749.9	762.5	720.4	703.6	813.1	846.8	872.1	1006.9	1053.2
47.5°	615.1	623.5	636.2	589.8	581.4	653.0	712.0	737.3	855.2	905.8
50°	442.4	450.8	497.1	471.9	497.1	514.0	594.0	631.9	712.0	779.4
52.5°	320.2	328.6	341.3	345.5	408.7	417.1	476.1	535.0	573.0	648.8
55°	252.8	261.2	252.8	244.4	299.1	345.5	366.5	429.7	459.2	547.7
57.5°	143.2	151.7	164.3	189.6	198.0	265.4	286.5	341.3	366.5	450.8
60°	25.3	29.5	46.3	113.8	139.0	168.5	214.9	261.2	294.9	353.9
62.5°	4.2	4.2	8.4	25.3	80.0	118.0	155.9	185.4	214.9	269.6
65°	0.0	0.0	4.2	8.4	21.1	67.4	84.3	109.5	147.5	193.8
67.5°	0.0	0.0	4.2	8.4	12.6	25.3	37.9	67.4	84.3	130.6
70°	0.0	0.0	4.2	8.4	12.6	16.9	21.1	29.5	50.6	80.0
72.5°	0.0	0.0	4.2	8.4	12.6	16.9	21.1	25.3	25.3	50.6
75°	0.0	0.0	4.2	8.4	12.6	21.1	25.3	25.3	21.1	21.1
77.5°	0.0	0.0	4.2	8.4	16.9	25.3	29.5	25.3	16.9	16.9
80°	0.0	0.0	8.4	12.6	21.1	29.5	37.9	29.5	16.9	8.4
82.5°	0.0	0.0	8.4	16.9	21.1	33.7	46.3	37.9	16.9	8.4
85°	0.0	0.0	4.2	12.6	25.3	33.7	46.3	33.7	16.9	4.2
87.5°	0.0	0.0	4.2	4.2	8.4	12.6	25.3	21.1	8.4	4.2
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°
132186.1	0°	132186.1	132186.1	132186.1	132186.1	132186.1	132186.1	132186.1	132186.1	132186.1
129022.2	2.5°	129763.6	130437.7	130576.7	130391.4	130661.0	130176.5	129805.8	128845.2	128268.0
120840.6	5°	121620.0	121518.9	122222.4	122454.1	122424.6	122053.9	121535.7	120954.3	120389.8
108218.5	7.5°	108892.6	109023.2	109663.6	110072.2	109865.8	109402.4	109044.3	108606.1	108226.9
94492.7	10°	95356.3	94459.0	95255.2	95255.2	95807.1	94496.9	94619.1	93515.3	93565.8
78719.3	12.5°	78988.9	79313.3	79443.9	79818.9	79174.3	78479.2	77628.2	77459.6	76933.0
58834.1	15°	59680.9	60607.8	59811.5	61172.3	60515.1	59790.4	59659.8	58353.8	58766.7
42673.2	17.5°	42462.5	43486.3	43806.4	44585.8	43987.6	43557.9	43014.4	42618.4	42588.9
29874.2	20°	30110.1	31138.0	31374.0	32309.3	32241.8	32107.0	31647.8	31146.5	30603.0
20336.0	22.5°	20643.5	21481.9	22265.5	23525.2	23504.2	23108.1	23061.8	22354.0	22366.6
13738.5	25°	13881.7	14492.6	14678.0	15967.2	16110.4	16068.3	15828.1	15170.9	15419.5
8392.2	27.5°	8400.7	8935.7	9563.4	10018.4	10448.2	10380.8	10140.6	9774.1	9614.0
5042.9	30°	5177.7	5417.9	5649.6	6197.3	6454.3	6589.1	6475.3	6134.1	6159.4
3319.8	32.5°	3391.4	3593.7	3762.2	4107.6	4242.5	4491.0	4444.7	4373.1	4288.8
2388.8	35°	2473.0	2620.5	2734.2	2894.3	3067.0	3277.7	3311.4	3281.9	3248.2
1845.3	37.5°	1887.4	2039.1	2169.7	2237.1	2371.9	2536.2	2628.9	2624.7	2599.4
1504.0	40°	1533.5	1647.3	1765.2	1853.7	1946.4	2068.6	2182.3	2195.0	2195.0
1263.9	42.5°	1280.7	1377.6	1495.6	1588.3	1655.7	1769.4	1887.4	1895.8	1887.4
1070.1	45°	1095.4	1179.6	1293.4	1402.9	1457.7	1541.9	1655.7	1681.0	1664.1
918.4	47.5°	952.1	1028.0	1124.9	1242.8	1301.8	1377.6	1483.0	1512.5	1508.2
792.0	50°	817.3	905.8	1002.7	1099.6	1175.4	1247.0	1348.1	1381.9	1369.2
674.1	52.5°	720.4	800.5	884.7	990.0	1078.5	1141.7	1221.8	1280.7	1263.9
568.8	55°	602.5	699.4	787.8	876.3	985.8	1053.2	1129.1	1200.7	1183.8
480.3	57.5°	522.4	602.5	703.6	783.6	893.1	973.2	1049.0	1124.9	1120.6
391.8	60°	438.1	522.4	619.3	703.6	804.7	893.1	969.0	1053.2	1061.7
294.9	62.5°	345.5	446.6	530.8	627.7	728.8	825.7	893.1	977.4	990.0
223.3	65°	261.2	366.5	459.2	551.9	653.0	758.3	817.3	888.9	901.6
164.3	67.5°	193.8	282.3	391.8	476.1	581.4	682.5	737.3	796.3	817.3
101.1	70°	147.5	214.9	328.6	408.7	518.2	598.2	657.2	707.8	724.6
67.4	72.5°	92.7	168.5	265.4	349.7	446.6	518.2	560.3	589.8	615.1
37.9	75°	63.2	130.6	214.9	299.1	370.7	425.5	463.4	488.7	509.8
16.9	77.5°	37.9	101.1	176.9	248.6	294.9	337.0	375.0	391.8	404.4
12.6	80°	21.1	75.8	147.5	202.2	231.7	261.2	290.7	311.8	320.2
8.4	82.5°	12.6	59.0	118.0	155.9	168.5	198.0	227.5	240.1	240.1
4.2	85°	8.4	42.1	80.0	113.8	122.2	143.2	151.7	160.1	168.5
4.2	87.5°	8.4	25.3	50.6	63.2	67.4	75.8	80.0	88.5	96.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
132186.1
127842.5
119757.8
106942.0
93072.9
76452.7
58353.8
41805.3
30367.1
22122.3
15027.7
9475.0
6049.8
4259.3
3235.6
2586.8
2169.7
1879.0
1664.1
1499.8
1360.8
1259.7
1192.3
1124.9
1065.9
998.5
914.2
825.7
733.1
610.9
505.6
400.2
311.8
235.9
164.3
92.7
0.0

(END OF REPORT)