

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: P637805

Luminaire Tested: **IFLD-L-SA7E-722-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637805
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-722-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35062.5 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

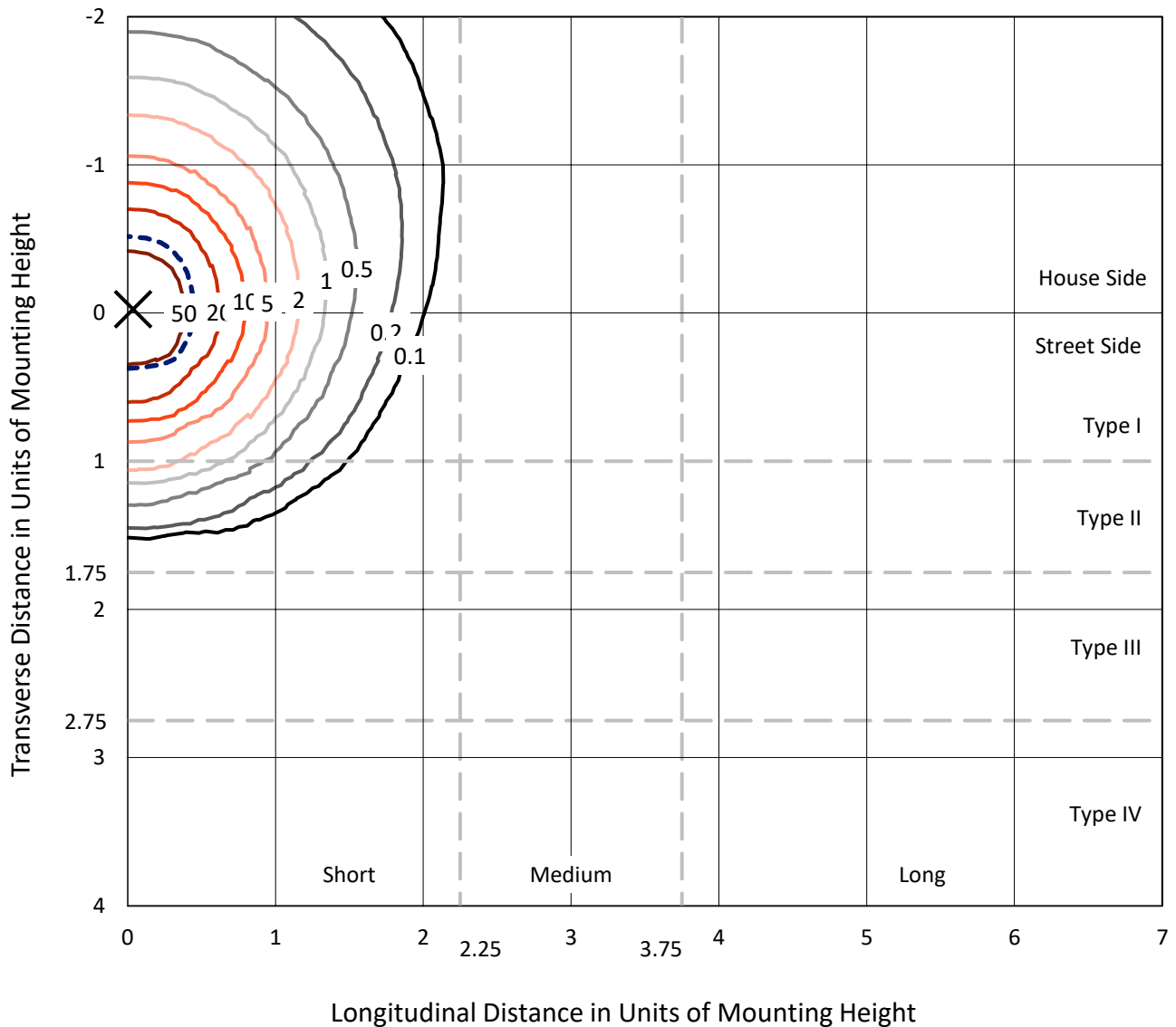
Input Watts (W): 532.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

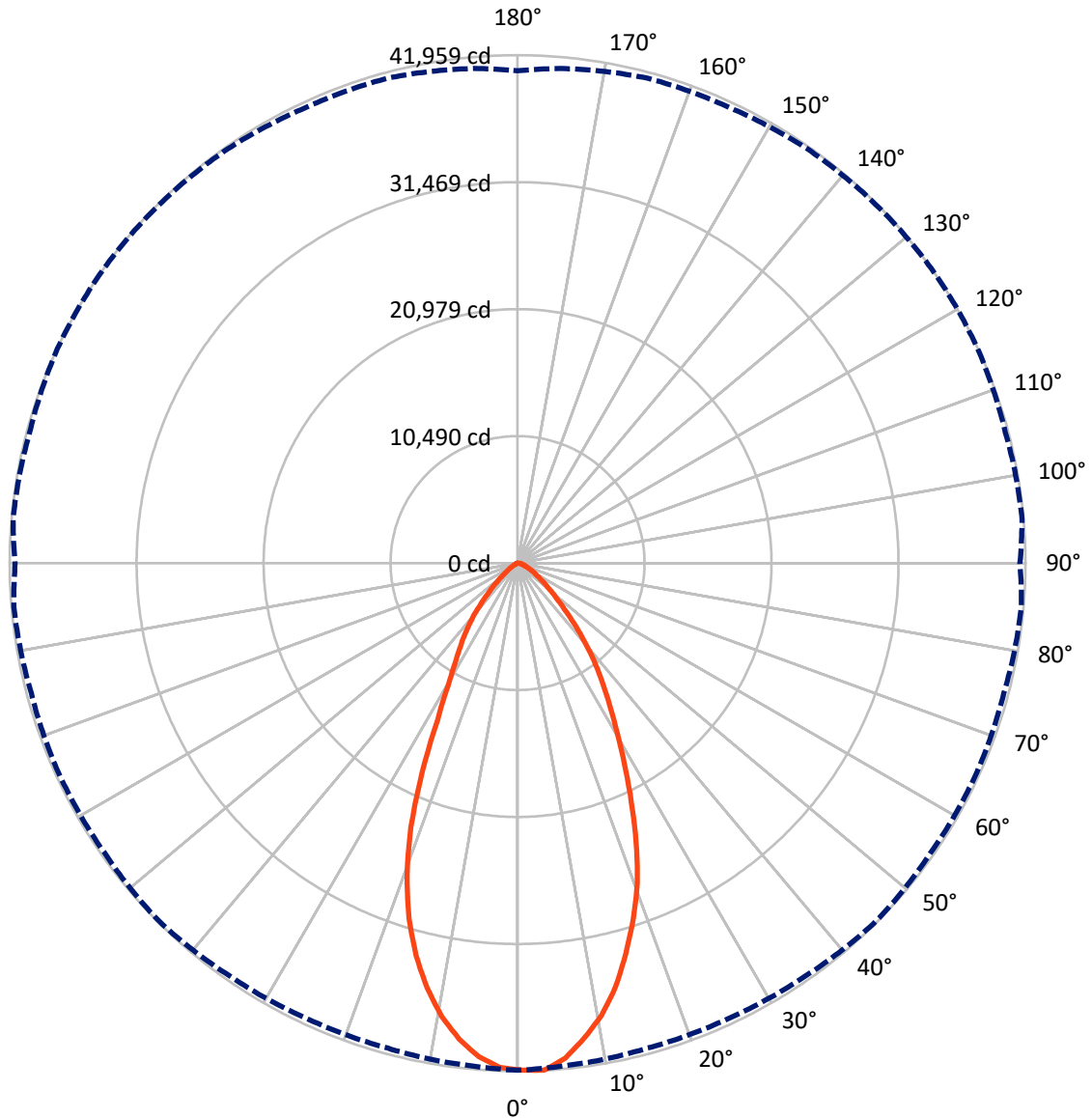
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 104.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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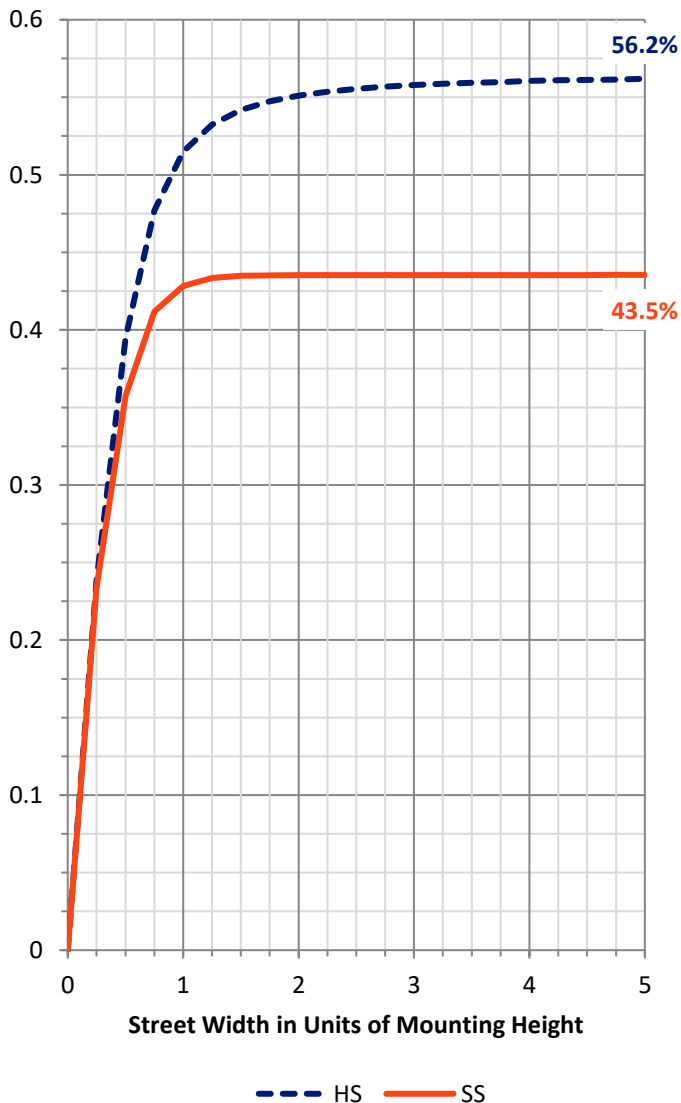
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19895.9	0.0	19895.9
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	15166.7	0.0	15166.7
	% Fixture	43.3	0.0	43.3
Total	Lumens	35062.5	0.0	35062.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3803.9	10.8
10°-20°	9067.6	25.9
20°-30°	9235.2	26.3
30°-40°	6886.6	19.6
40°-50°	3597.8	10.3
50°-60°	1513.2	4.3
60°-70°	618.0	1.8
70°-80°	260.1	0.7
80°-90°	80.1	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°	35062.5	100.0
0°-180°	35062.5	100.0



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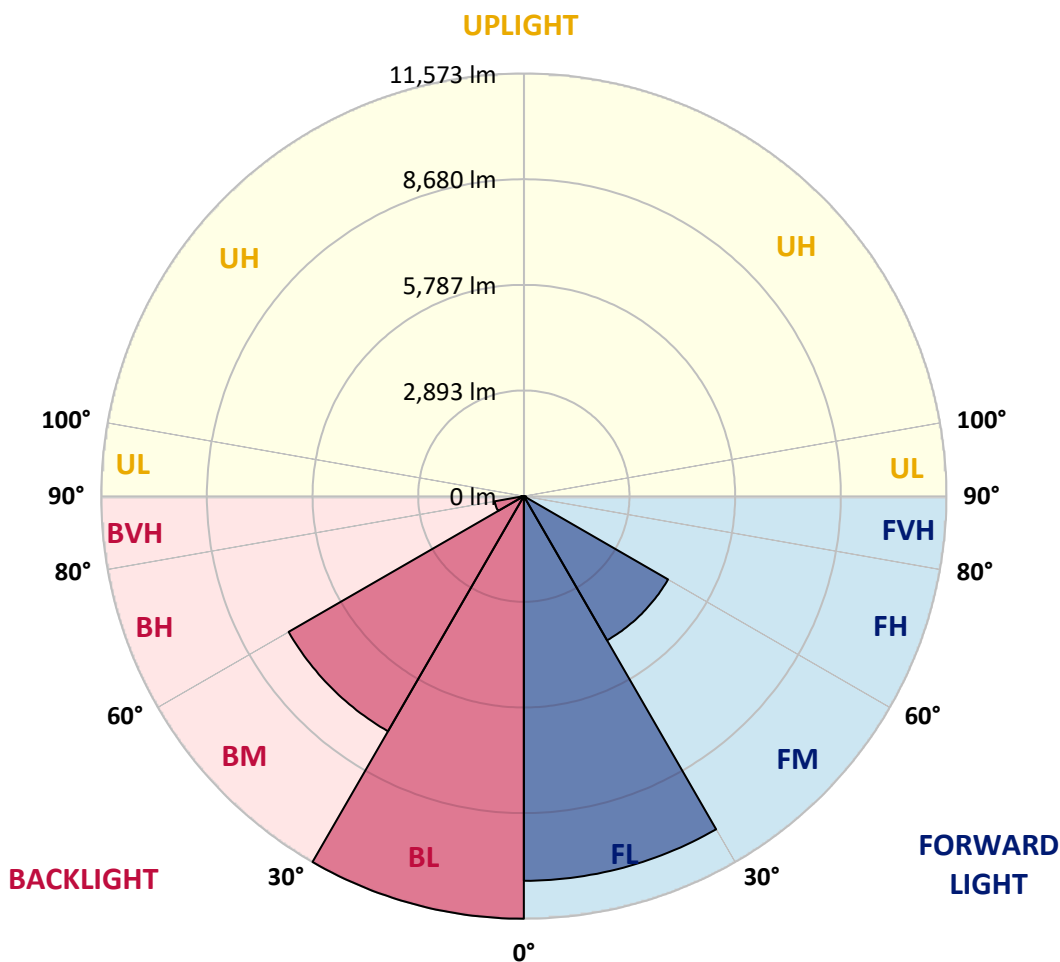
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10533.2	30.0			
FM (30°-60°)	4560.0	13.0			
FH (60°-80°)	66.0	0.2			G0/660
FVH (80°-90°)	7.4	0.0			G0/10
BL (0°-30°)	11573.5	33.0	B5		
BM (30°-60°)	7437.6	21.2	B4/8500		
BH (60°-80°)	812.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	72.7	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	41891.3	41891.3	41891.3	41891.3	41891.3	41891.3	41891.3	41891.3	41891.3	41891.3
2.5°	41895.8	41724.6	41481.4	41458.9	41585.0	41859.7	41684.1	41693.1	41585.0	41769.7
5°	41238.2	41076.1	40909.4	40688.7	40873.4	40990.5	40900.4	40801.3	40661.7	40841.9
7.5°	39995.1	39905.0	39657.3	39558.2	39670.8	39801.4	39607.8	39580.7	39387.1	39621.3
10°	38094.4	38058.4	37815.2	37756.6	37855.7	38053.9	37968.3	37950.3	37828.7	37806.2
12.5°	36121.7	35982.1	35680.3	35662.3	35810.9	36108.2	35878.5	35657.8	35725.4	35783.9
15°	31041.2	30892.6	31640.3	32815.8	33432.8	33410.3	33477.9	33212.2	33131.1	33158.1
17.5°	24677.2	24424.9	24695.2	26514.8	29446.8	31149.3	30680.9	30108.9	29802.7	29600.0
20°	21299.2	21312.7	21263.2	21731.6	23560.2	27442.6	27330.0	26226.5	25825.7	25659.0
22.5°	19245.4	19168.8	19060.7	19209.4	19700.3	21979.3	23506.1	22492.7	22353.1	22168.5
25°	17232.1	17232.1	17101.5	17250.1	17389.8	17421.3	18952.6	19367.0	19096.8	19096.8
27.5°	15489.1	15399.0	15340.5	15408.0	15223.4	14336.1	14529.8	16651.1	16466.5	16353.9
30°	13759.6	13732.6	13633.5	13723.5	13038.9	12039.1	11633.7	14052.3	14246.0	14205.5
32.5°	11359.0	11467.1	11908.5	12048.1	10877.0	10070.8	9683.5	11665.2	12439.9	12408.4
35°	7719.8	7809.9	8314.3	9980.8	9016.9	8440.4	8327.8	9278.1	10552.8	10674.4
37.5°	6147.9	6134.4	6278.5	6575.8	7246.9	7107.2	7075.7	7323.4	8607.1	8661.1
40°	5066.9	5048.9	5044.4	4801.2	4634.6	5909.2	5823.6	5675.0	6787.5	6895.6
42.5°	4085.1	4103.1	4116.6	3585.1	3341.9	4558.0	4508.5	4355.3	5323.7	5449.8
45°	3206.8	3202.3	3229.3	2670.8	2603.3	2914.1	3369.0	3247.4	4017.5	4152.6
47.5°	1662.0	1720.5	2085.3	2067.3	2098.8	2067.3	2549.2	2517.7	3022.2	3238.3
50°	1117.0	1135.0	1166.5	1171.0	1653.0	1522.3	1729.5	1959.2	2116.9	2450.2
52.5°	864.8	878.3	797.2	747.7	1013.4	1126.0	1135.0	1355.7	1477.3	1815.1
55°	481.9	540.5	581.0	585.5	558.5	833.2	828.7	1004.4	1099.0	1324.2
57.5°	63.1	76.6	117.1	378.3	373.8	463.9	581.0	729.6	783.7	968.4
60°	4.5	9.0	13.5	58.6	247.7	270.2	396.3	454.9	545.0	680.1
62.5°	0.0	0.0	4.5	13.5	49.5	157.6	207.2	238.7	319.8	445.9
65°	0.0	0.0	4.5	9.0	18.0	58.6	81.1	130.6	189.2	274.7
67.5°	0.0	0.0	4.5	9.0	13.5	22.5	36.0	58.6	99.1	166.6
70°	0.0	0.0	4.5	9.0	13.5	18.0	27.0	36.0	54.0	90.1
72.5°	0.0	0.0	4.5	4.5	9.0	22.5	22.5	27.0	36.0	49.5
75°	0.0	0.0	4.5	9.0	13.5	22.5	22.5	22.5	27.0	31.5
77.5°	0.0	0.0	4.5	9.0	13.5	22.5	18.0	22.5	22.5	22.5
80°	0.0	0.0	4.5	9.0	13.5	22.5	27.0	22.5	18.0	18.0
82.5°	0.0	0.0	4.5	13.5	13.5	31.5	31.5	31.5	13.5	13.5
85°	0.0	0.0	9.0	13.5	22.5	36.0	36.0	27.0	13.5	9.0
87.5°	0.0	0.0	4.5	9.0	9.0	18.0	27.0	22.5	9.0	4.5
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°
41891.3	0°	41891.3	41891.3	41891.3	41891.3	41891.3	41891.3	41891.3	41891.3	41891.3
41499.4	2.5°	41832.7	41720.1	41931.8	41958.8	41868.8	41756.2	41494.9	41472.4	41017.5
40580.6	5°	41040.0	40855.4	40990.5	41080.6	41049.0	40927.4	40819.3	40720.2	40310.4
39089.8	7.5°	39562.7	39495.2	39558.2	39625.8	39756.4	39625.8	39580.7	39477.2	39071.8
37621.5	10°	37923.3	37797.2	38035.9	38004.4	37968.3	37932.3	37743.1	37761.1	37283.7
35621.8	12.5°	35910.0	35698.3	35928.0	35955.1	35928.0	35801.9	35590.2	35680.3	35243.4
32919.4	15°	33203.1	33180.6	33347.3	33455.4	33531.9	33396.8	33324.8	33369.8	33108.6
29442.3	17.5°	29879.2	30172.0	30717.0	30901.6	30906.1	31045.8	31005.2	30951.2	30757.5
25591.5	20°	25969.8	26532.8	27370.5	28230.8	28478.5	28361.4	28307.3	28406.4	28118.2
21974.8	22.5°	22362.1	22844.1	23816.9	25073.5	25798.6	25870.7	25857.2	25771.6	25659.0
19078.7	25°	19299.4	19727.3	20659.6	21808.1	23199.9	23407.0	23416.1	23389.0	23289.9
16452.9	27.5°	16714.2	17232.1	17745.6	18772.5	20254.3	21110.0	21001.9	20970.4	20934.4
14237.0	30°	14372.1	15025.2	15507.1	16146.7	17475.3	18632.9	18745.5	18691.4	18605.8
12403.9	32.5°	12516.5	12903.8	13516.4	13948.7	14903.6	16214.2	16646.6	16606.1	16529.5
10750.9	35°	10904.1	11057.2	11539.1	12021.1	12656.1	13926.2	14565.8	14475.7	14462.2
8760.2	37.5°	8980.9	9494.3	9760.1	10246.5	10692.4	11678.8	12561.5	12521.0	12525.5
7044.2	40°	7251.4	7548.6	8075.6	8485.4	8895.3	9615.9	10597.8	10624.8	10615.8
5454.3	42.5°	5566.9	5855.1	6409.1	6855.0	7219.8	7665.7	8602.6	8634.1	8674.6
4247.2	45°	4346.3	4531.0	4936.3	5400.2	5787.6	6057.8	6769.4	6972.1	6976.6
3292.4	47.5°	3373.5	3585.1	3873.4	4319.3	4697.6	4891.3	5409.2	5684.0	5670.5
2526.7	50°	2648.3	2842.0	3076.2	3427.5	3837.4	3990.5	4373.3	4643.6	4630.1
1905.2	52.5°	2026.8	2274.5	2481.7	2751.9	3152.8	3283.4	3558.1	3868.9	3823.9
1396.2	55°	1535.8	1788.1	1981.7	2206.9	2571.8	2738.4	2927.6	3175.3	3184.3
1080.9	57.5°	1157.5	1418.7	1594.4	1824.1	2098.8	2283.5	2427.6	2693.4	2688.9
738.6	60°	828.7	1053.9	1265.6	1504.3	1716.0	1927.7	2026.8	2279.0	2288.0
522.5	62.5°	599.0	810.7	1013.4	1220.6	1409.7	1616.9	1707.0	1905.2	1932.2
342.3	65°	418.9	567.5	801.7	959.3	1171.0	1324.2	1441.3	1612.4	1643.9
202.7	67.5°	270.2	409.9	635.1	774.7	968.4	1099.0	1220.6	1355.7	1396.2
130.6	70°	162.1	310.8	472.9	621.5	797.2	914.3	1031.4	1148.5	1171.0
63.1	72.5°	103.6	216.2	342.3	504.4	639.6	765.7	869.3	954.8	887.3
40.5	75°	58.6	148.6	270.2	396.3	518.0	639.6	725.1	770.2	617.0
27.0	77.5°	36.0	108.1	220.7	319.8	400.9	513.5	567.5	594.5	441.4
18.0	80°	22.5	81.1	184.7	261.2	261.2	378.3	441.4	463.9	319.8
13.5	82.5°	18.0	58.6	144.1	198.2	175.7	283.7	346.8	351.3	225.2
9.0	85°	13.5	45.0	90.1	130.6	121.6	198.2	202.7	225.2	148.6
9.0	87.5°	9.0	27.0	54.0	76.6	67.6	94.6	108.1	121.6	81.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
41891.3
40661.7
39981.6
38986.2
37121.6
35117.3
32793.3
30469.2
27911.0
25442.8
22956.7
20722.7
18497.7
16326.8
14313.6
12381.4
10458.2
8539.5
6859.5
5620.9
4630.1
3828.4
3184.3
2679.9
2265.5
1923.2
1634.9
1391.7
1153.0
824.2
585.5
414.4
297.3
207.2
135.1
72.1
0.0

(END OF REPORT)