

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: P636490

Luminaire Tested: **IFLD-S-SA6E-935-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636490
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-935-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (96) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29073 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - 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



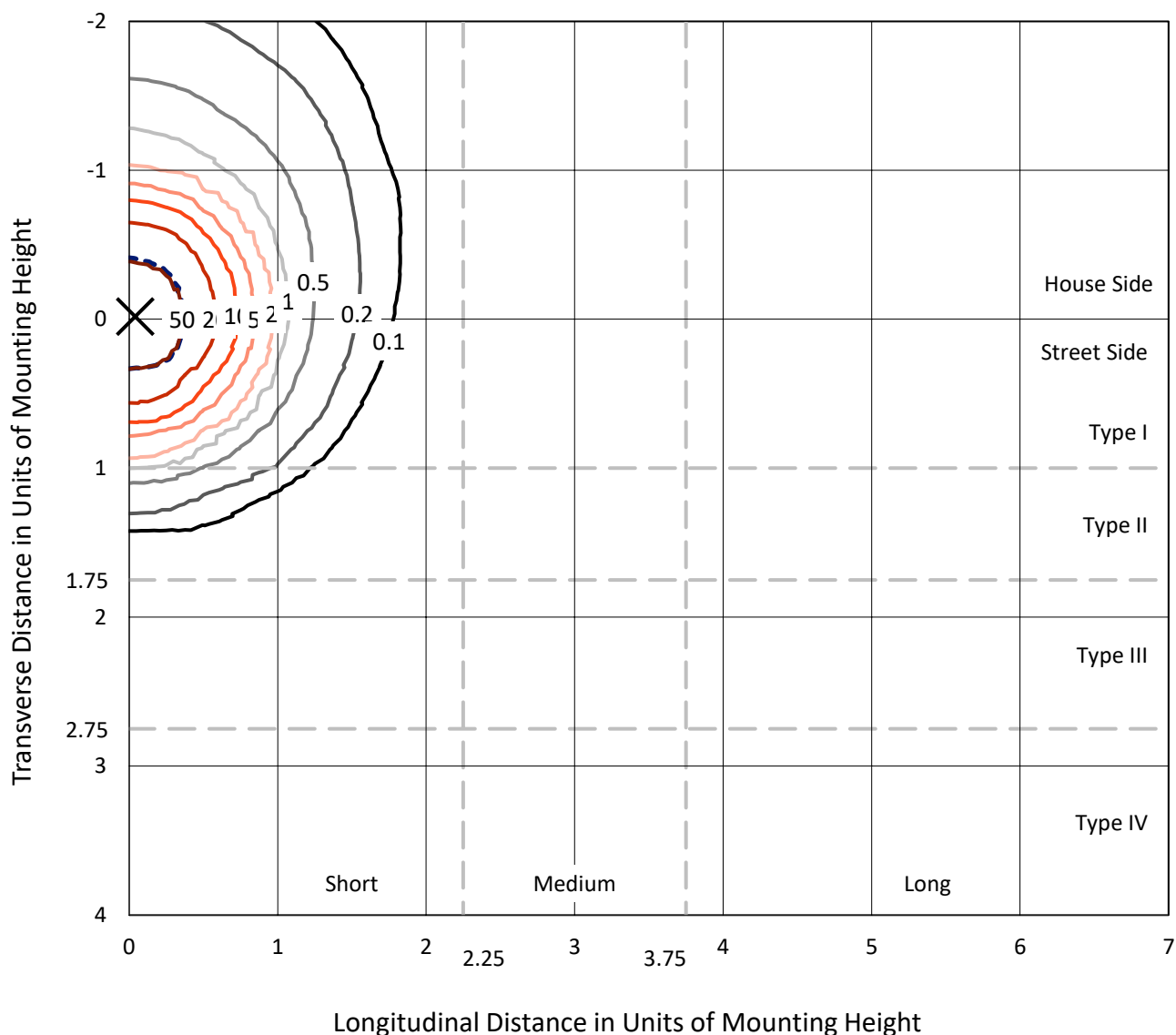
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

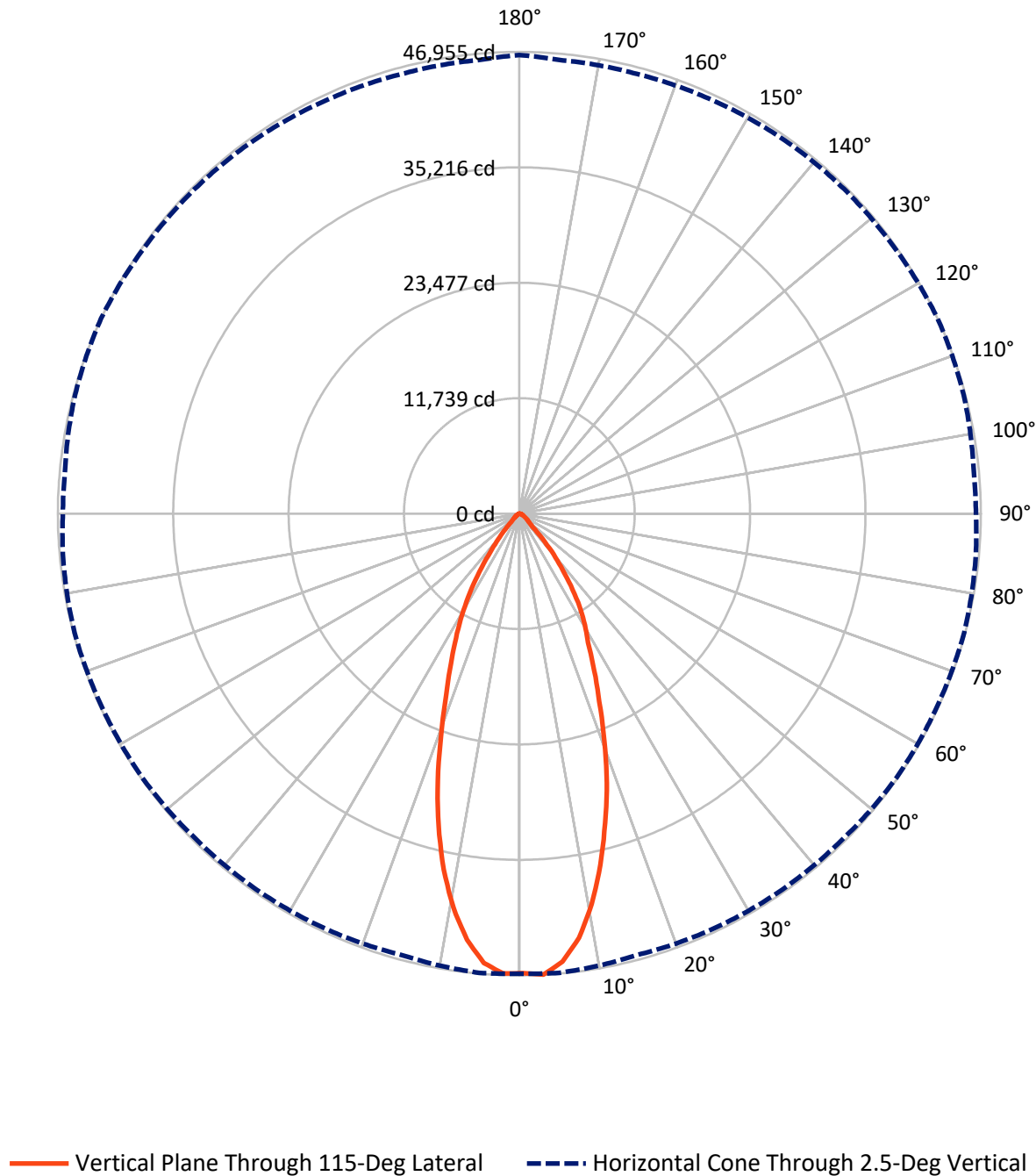


Based on 20 foot mounting height. Maximum calculated value = 116.8 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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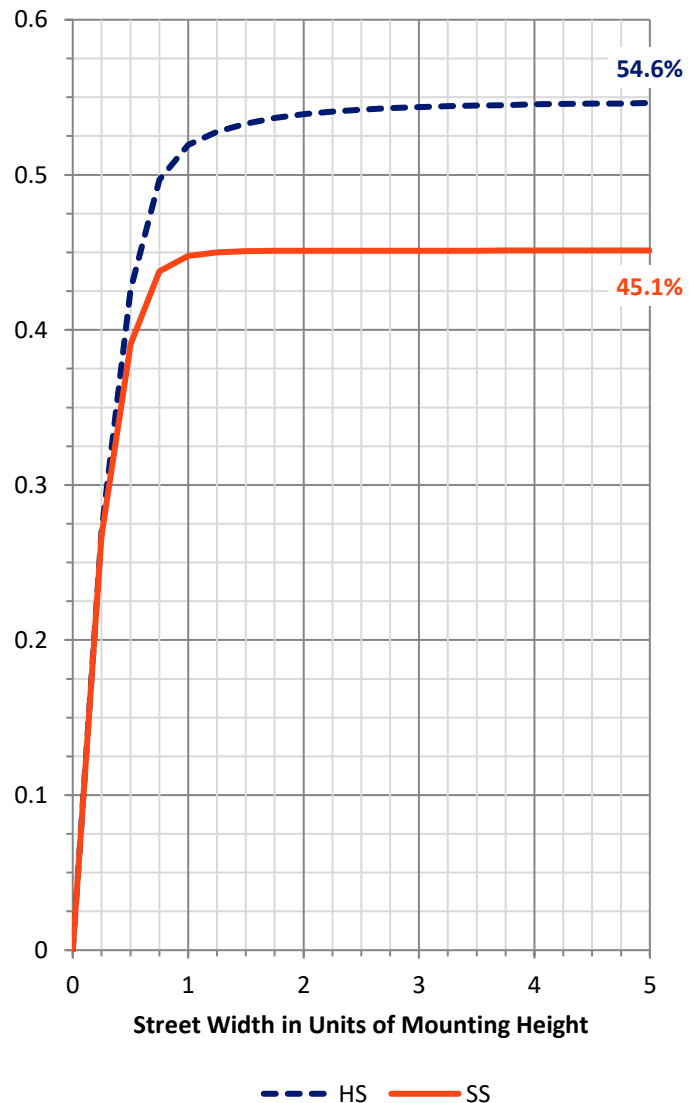
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16044.9	0.0	16044.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	13028.1	0.0	13028.1
	% Fixture	44.8	0.0	44.8
Total	Lumens	29073.0	0.0	29073.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4191.8	14.4
10°-20°	8859.2	30.5
20°-30°	7996.0	27.5
30°-40°	5291.4	18.2
40°-50°	1585.1	5.5
50°-60°	635.8	2.2
60°-70°	329.3	1.1
70°-80°	142.9	0.5
80°-90°	41.6	0.1
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°	29073.0	100.0
0°-180°	29073.0	100.0

Coefficient of Utilization



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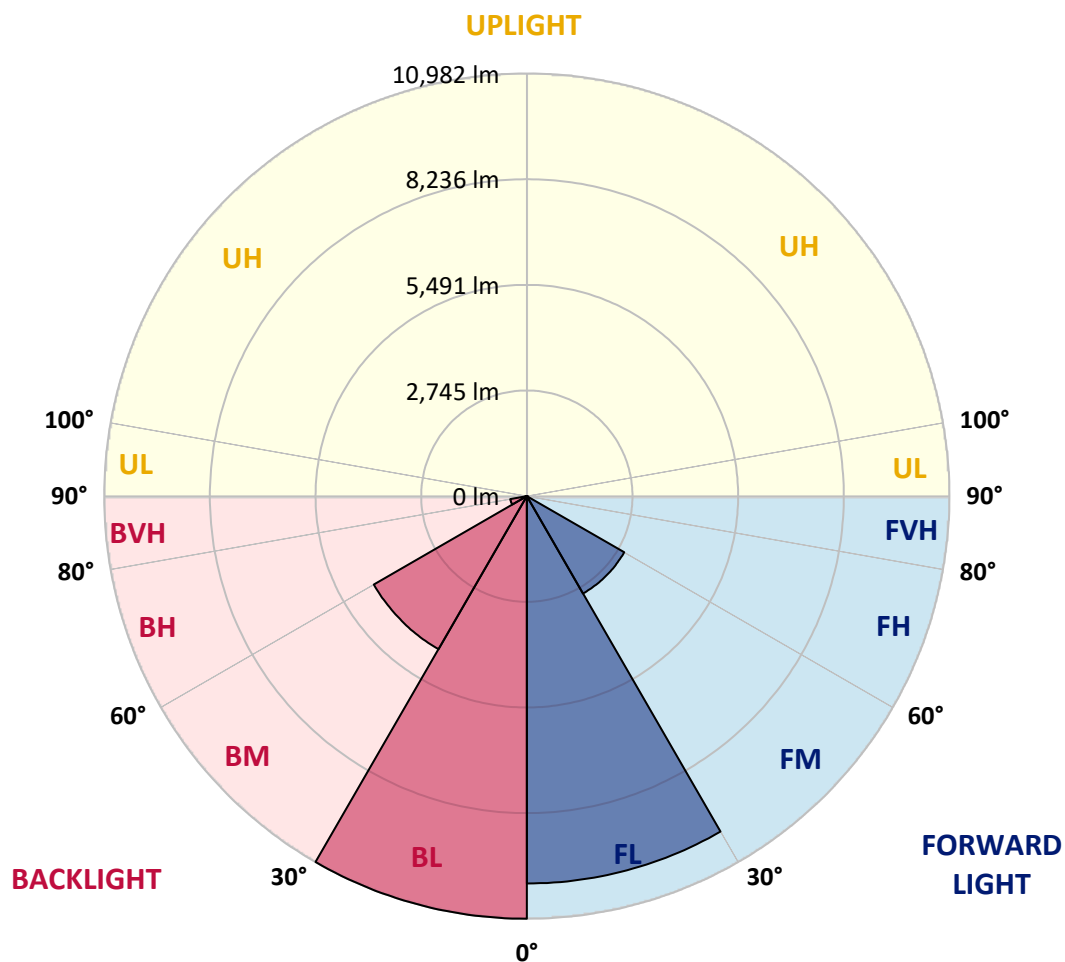
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	10065.3	34.6			
FM	(30°-60°)	2920.6	10.0			
FH	(60°-80°)	36.2	0.1			G0/660
FVH	(80°-90°)	6.0	0.0			G0/10
BL	(0°-30°)	10981.6	37.8	B5		
BM	(30°-60°)	4591.7	15.8	B3/5000		
BH	(60°-80°)	436.0	1.5	B1/500		G1/500
BVH	(80°-90°)	35.6	0.1			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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	46734.9	46734.9	46734.9	46734.9	46734.9	46734.9	46734.9	46734.9	46734.9	46734.9
2.5°	46794.3	46877.6	46461.4	46604.1	46663.5	46681.4	46830.0	46806.2	46847.8	46627.8
5°	46175.9	46015.4	45706.2	45712.2	45694.3	45527.8	45866.8	45843.0	45771.6	45510.0
7.5°	44071.1	44303.0	43720.3	43708.4	43696.5	43494.3	43940.3	43666.8	43726.2	43351.6
10°	40991.1	41020.8	40503.5	40456.0	40497.6	40236.0	40753.3	40646.3	40759.2	40366.8
12.5°	37215.5	37381.9	36811.1	36727.9	36894.4	36525.7	36941.9	36995.5	36829.0	36775.5
15°	29188.5	29628.5	30710.6	32363.6	32791.7	32482.5	32815.5	32809.5	32880.9	32476.6
17.5°	22237.7	22279.3	22023.7	22814.5	27392.8	28879.3	28950.6	28385.8	27957.7	27809.0
20°	19413.4	19556.1	19324.2	19389.6	20121.0	24479.3	24645.8	23795.5	23064.2	23004.7
22.5°	17165.8	17255.0	17088.5	17142.1	17177.7	17689.1	20584.7	19835.6	19484.8	19217.2
25°	15263.2	15263.2	15174.0	15191.8	15156.1	14401.0	15887.5	16743.7	16541.5	16446.4
27.5°	13526.9	13550.7	13437.8	13503.2	13069.1	11850.2	11671.8	14198.8	13984.8	13812.4
30°	11879.9	11957.2	11850.2	11885.9	10940.5	9941.6	9430.2	11844.3	12111.8	12064.3
32.5°	8942.7	9293.5	10155.6	10191.3	8907.0	8140.0	7914.0	9507.5	10524.3	10435.1
35°	5541.6	5523.8	5559.4	7271.8	6831.9	6308.6	6391.9	7182.7	8330.2	8288.6
37.5°	4227.5	4221.6	4287.0	4114.6	4477.3	4786.5	4851.9	4851.9	6082.7	6088.6
40°	3204.8	3181.1	3175.1	2901.6	2431.9	3591.3	3484.3	3395.1	4227.5	4316.7
42.5°	2045.4	2116.7	2063.2	1765.9	1587.6	1962.2	2188.1	2116.7	2610.3	2675.7
45°	1141.6	1141.6	1094.0	927.6	921.6	993.0	1248.6	1165.4	1337.8	1427.0
47.5°	553.0	541.1	594.6	731.3	761.1	737.3	891.9	927.6	1010.8	1094.0
50°	445.9	445.9	422.2	380.5	630.3	606.5	660.0	707.6	755.1	826.5
52.5°	374.6	374.6	344.9	321.1	362.7	463.8	469.7	558.9	553.0	654.1
55°	190.3	196.2	279.5	279.5	243.8	380.5	386.5	451.9	463.8	547.0
57.5°	17.8	23.8	35.7	172.4	190.3	208.1	291.3	333.0	386.5	422.2
60°	5.9	5.9	11.9	23.8	113.0	142.7	184.3	220.0	267.6	350.8
62.5°	0.0	0.0	5.9	11.9	23.8	89.2	101.1	113.0	160.5	220.0
65°	0.0	0.0	5.9	5.9	11.9	29.7	41.6	71.4	101.1	136.8
67.5°	0.0	0.0	5.9	5.9	11.9	17.8	23.8	35.7	47.6	89.2
70°	0.0	0.0	5.9	5.9	11.9	17.8	17.8	23.8	29.7	41.6
72.5°	0.0	0.0	5.9	5.9	11.9	23.8	17.8	17.8	23.8	29.7
75°	0.0	0.0	5.9	5.9	11.9	17.8	17.8	17.8	17.8	17.8
77.5°	0.0	0.0	5.9	5.9	11.9	17.8	17.8	17.8	11.9	11.9
80°	0.0	0.0	5.9	5.9	11.9	17.8	23.8	23.8	11.9	11.9
82.5°	0.0	0.0	5.9	11.9	11.9	29.7	35.7	29.7	11.9	5.9
85°	0.0	0.0	5.9	5.9	17.8	29.7	29.7	17.8	11.9	5.9
87.5°	0.0	0.0	0.0	5.9	5.9	11.9	17.8	17.8	5.9	5.9
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°
46734.9	0°	46734.9	46734.9	46734.9	46734.9	46734.9	46734.9	46734.9	46734.9	46734.9
46449.5	2.5°	46425.7	46788.4	46954.9	46782.4	46699.2	46580.3	46407.8	46288.9	46312.7
45367.3	5°	45266.2	45646.8	45777.6	45628.9	45504.1	45438.7	45408.9	45468.4	45623.0
43191.1	7.5°	43179.2	43423.0	43565.7	43494.3	43321.9	43518.1	43571.6	43536.0	43761.9
40247.9	10°	40259.8	40527.3	40396.5	40426.3	40224.1	40325.2	40295.4	40426.3	40652.2
36733.8	12.5°	36496.0	36751.7	36650.6	36632.8	36418.7	36609.0	36490.1	36632.8	36930.1
32310.1	15°	32542.0	32702.5	32637.1	32536.0	32345.8	32411.2	32779.8	32756.0	32886.8
27719.8	17.5°	27600.9	28373.9	28796.0	28885.2	28730.6	28861.5	29123.1	29057.7	29355.0
22879.9	20°	22838.2	23617.2	24657.7	25502.0	25519.9	25537.7	25704.2	25745.8	26001.5
19223.1	22.5°	19139.9	19692.9	20810.7	21928.5	22701.5	22862.0	22844.2	22903.7	22975.0
16315.6	25°	16274.0	16678.3	17701.0	18473.9	19829.6	20281.5	20412.3	20281.5	20323.1
13752.9	27.5°	13907.5	14525.9	14864.8	15691.3	17017.2	18063.7	18022.1	17944.8	17956.7
11969.1	30°	11963.2	12629.1	13128.6	13378.3	14377.2	15887.5	16042.1	15822.1	15828.0
10393.5	32.5°	10328.0	10536.2	11273.4	11475.6	12117.8	13491.3	14020.5	13854.0	13824.2
8312.4	35°	8556.2	8669.1	9008.1	9406.4	9787.0	10827.5	11701.6	11547.0	11624.3
6112.4	37.5°	6088.6	6552.4	6879.4	7206.4	7480.0	8134.0	9186.4	9043.7	9121.0
4328.6	40°	4292.9	4501.1	5065.9	5208.6	5612.9	5916.2	6808.1	6760.5	6855.6
2687.6	42.5°	2640.0	2788.6	3074.0	3210.8	3484.3	3656.7	4180.0	4239.4	4364.3
1486.5	45°	1498.4	1563.8	1760.0	1908.6	2110.8	2182.1	2366.5	2449.7	2521.1
1153.5	47.5°	1141.6	1213.0	1343.8	1474.6	1641.1	1700.5	1831.3	1956.2	2021.6
891.9	50°	933.5	998.9	1135.7	1242.7	1409.2	1462.7	1569.7	1706.5	1789.7
677.8	52.5°	707.6	802.7	969.2	1082.2	1254.6	1320.0	1421.1	1557.8	1635.1
558.9	55°	582.7	654.1	802.7	957.3	1117.8	1207.0	1272.4	1438.9	1522.2
457.8	57.5°	499.5	553.0	648.1	832.4	969.2	1100.0	1153.5	1308.1	1391.3
362.7	60°	380.5	463.8	547.0	689.7	844.3	981.1	1040.5	1177.3	1242.7
261.6	62.5°	315.1	368.6	475.7	553.0	725.4	868.1	927.6	1052.4	1100.0
172.4	65°	220.0	297.3	398.4	445.9	606.5	743.2	826.5	921.6	969.2
101.1	67.5°	130.8	220.0	315.1	380.5	493.5	630.3	719.5	808.6	850.3
59.5	70°	83.2	172.4	249.7	321.1	386.5	517.3	624.3	701.6	683.8
35.7	72.5°	47.6	107.0	184.3	261.6	321.1	434.1	535.1	594.6	422.2
23.8	75°	29.7	77.3	154.6	214.1	261.6	344.9	440.0	451.9	261.6
11.9	77.5°	23.8	59.5	118.9	172.4	178.4	255.7	309.2	350.8	196.2
11.9	80°	11.9	47.6	101.1	142.7	113.0	178.4	237.8	273.5	154.6
5.9	82.5°	11.9	29.7	77.3	101.1	83.2	136.8	172.4	196.2	130.8
5.9	85°	5.9	23.8	41.6	59.5	59.5	89.2	77.3	95.1	83.2
5.9	87.5°	5.9	11.9	23.8	29.7	23.8	35.7	41.6	41.6	35.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
46734.9
46633.8
45944.1
43987.9
40741.4
36983.6
32916.6
29307.4
25948.0
22844.2
20257.7
17974.5
15834.0
13895.6
11695.6
9186.4
6891.3
4507.0
2515.1
2051.3
1825.4
1688.6
1545.9
1427.0
1254.6
1105.9
969.2
844.3
630.3
374.6
243.8
196.2
160.5
142.7
83.2
29.7
0.0

(END OF REPORT)