

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: P638152

Luminaire Tested: **IFLD-L-SA7D-735-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638152
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-735-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37006.1 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 422.6
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



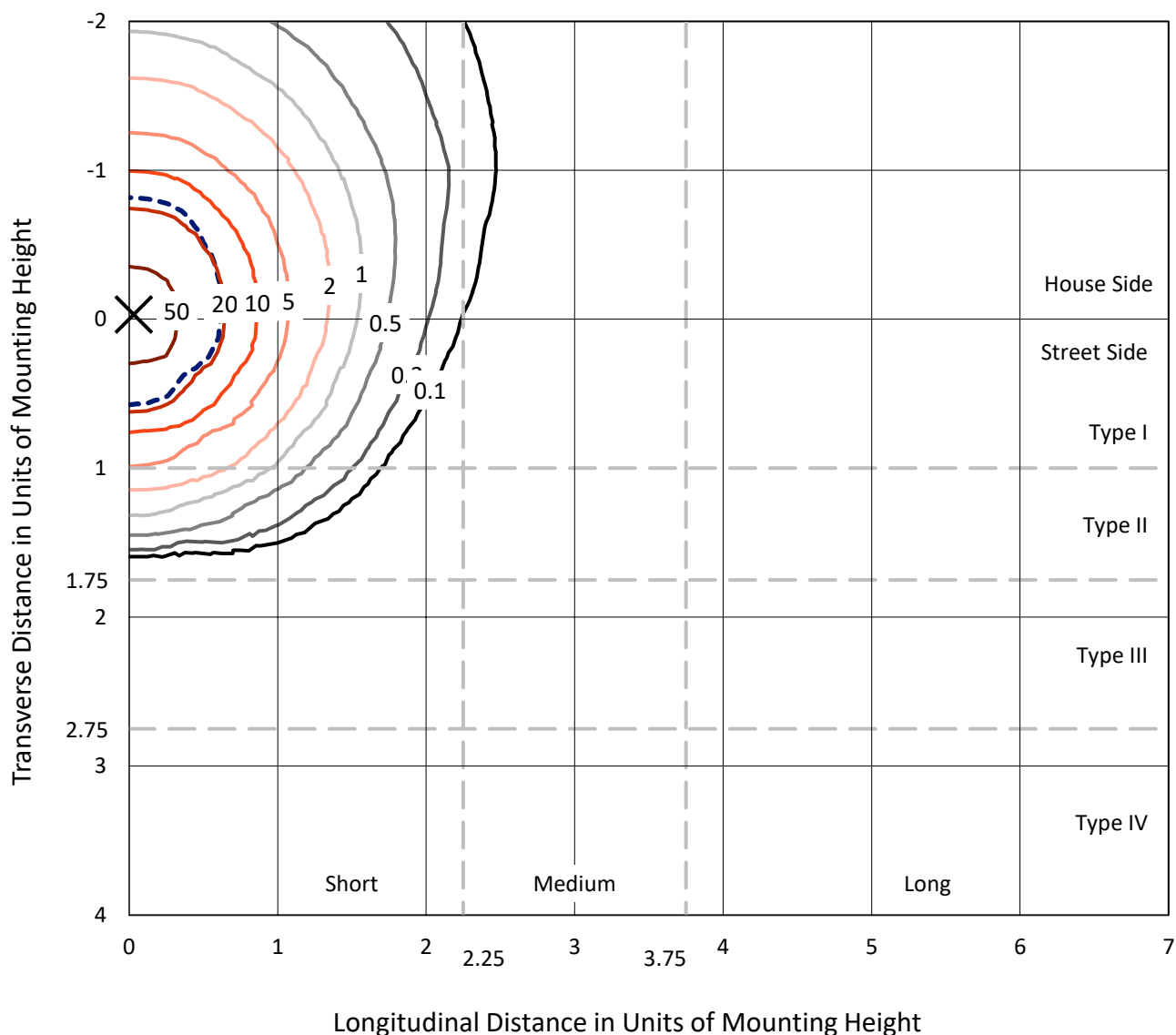
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



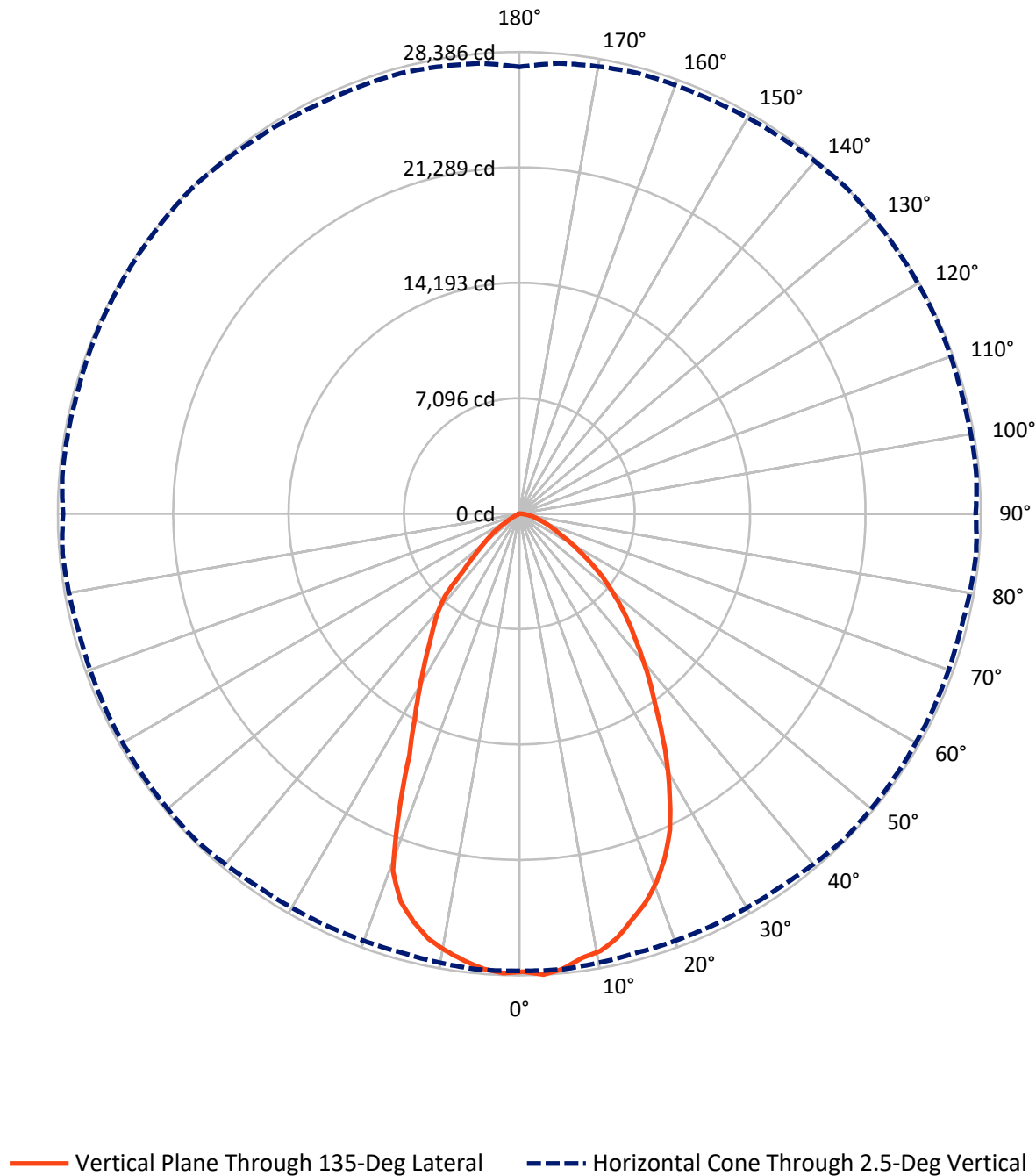
Based on 20 foot mounting height. Maximum calculated value = 70.4 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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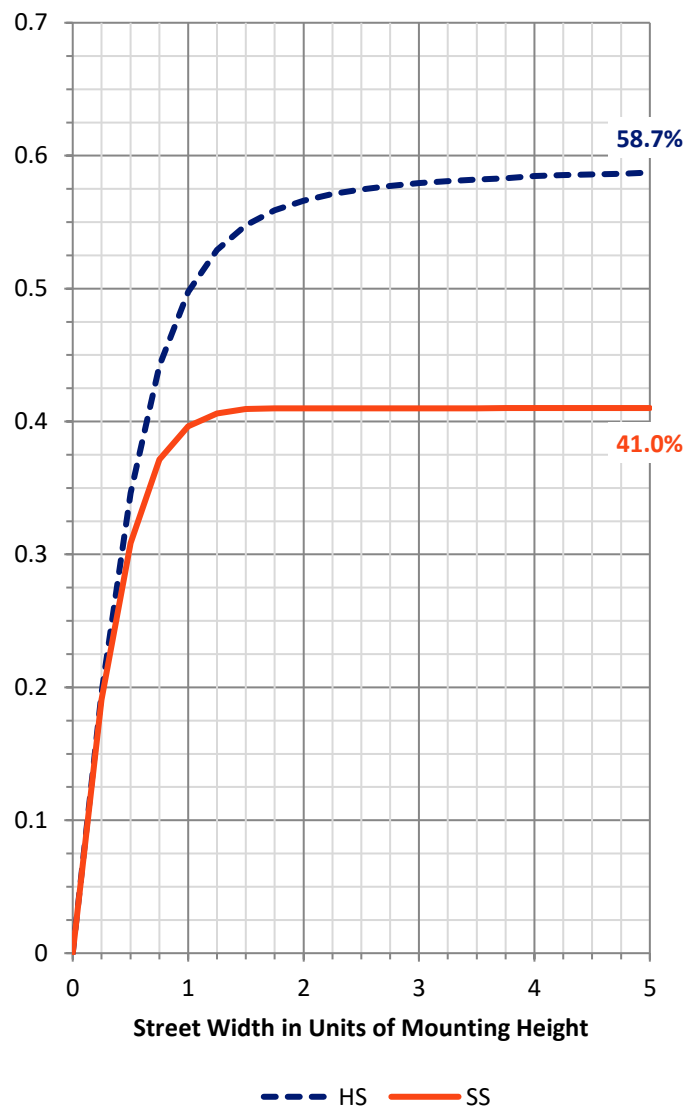
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21916.9	0.0	21916.9
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	15089.2	0.0	15089.2
	% Fixture	40.8	0.0	40.8
Total	Lumens	37006.1	0.0	37006.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2641.1	7.1
10°-20°	7082.3	19.1
20°-30°	8637.2	23.3
30°-40°	7885.7	21.3
40°-50°	5698.8	15.4
50°-60°	3111.6	8.4
60°-70°	1286.5	3.5
70°-80°	521.1	1.4
80°-90°	141.7	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°	37006.1	100.0
0°-180°	37006.1	100.0

Coefficient of Utilization



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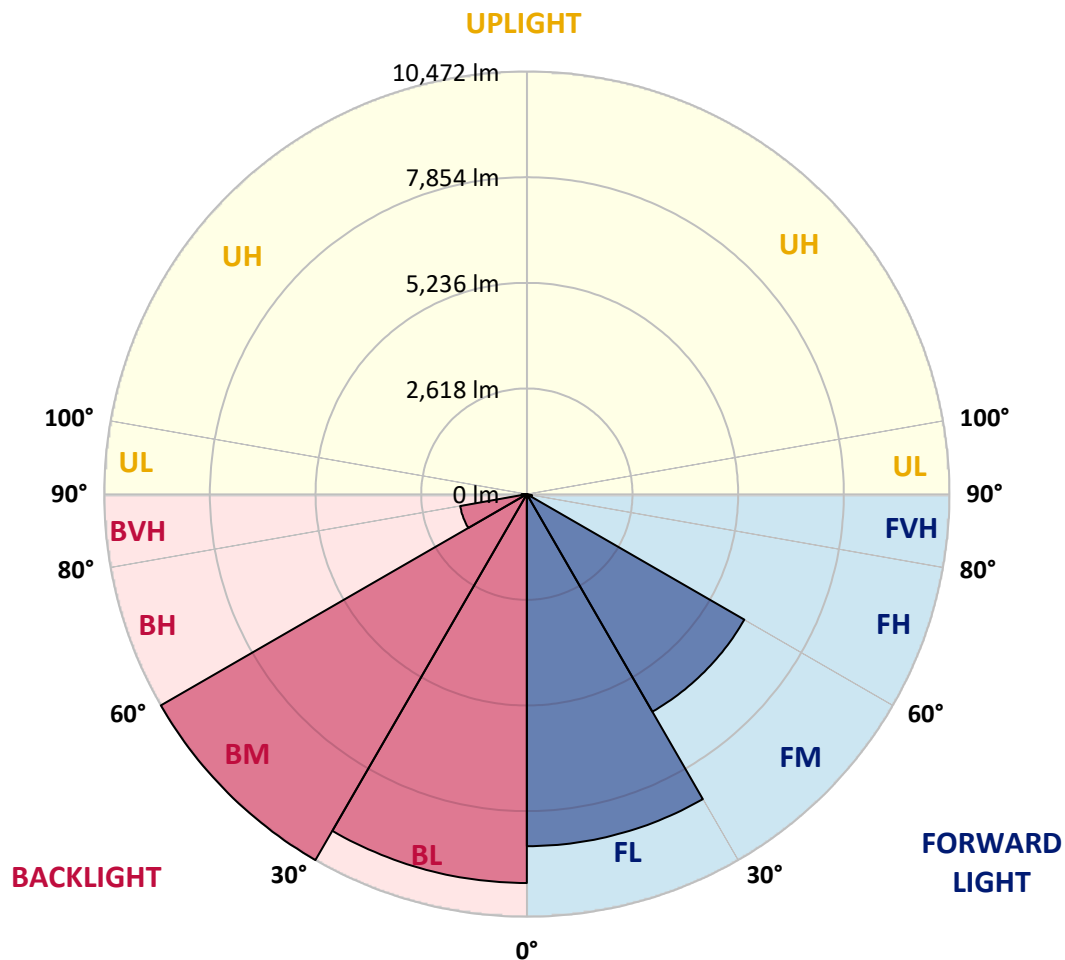
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8723.7	23.6			
FM	(30°-60°)	6223.7	16.8			
FH	(60°-80°)	130.4	0.4			G0/660
FVH	(80°-90°)	11.4	0.0			G1/100
BL	(0°-30°)	9636.9	26.0	B5		
BM	(30°-60°)	10472.4	28.3	B5		
BH	(60°-80°)	1677.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	130.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	28161.5	28161.5	28161.5	28161.5	28161.5	28161.5	28161.5	28161.5	28161.5	28161.5
2.5°	28109.4	28145.9	27947.8	27968.7	28005.2	28270.9	28203.2	28140.7	28052.1	28203.2
5°	28072.9	28093.8	27885.3	27812.4	27843.6	28083.3	27864.5	27864.5	27843.6	27817.6
7.5°	27791.5	27801.9	27640.4	27510.1	27593.5	27702.9	27541.4	27619.5	27504.9	27593.5
10°	27369.4	27301.7	27108.8	27072.4	27166.2	27270.4	27160.9	27233.9	27129.7	27197.4
12.5°	26749.3	26645.0	26488.7	26441.8	26603.3	26744.0	26655.5	26613.8	26478.3	26645.0
15°	24357.3	24279.1	24633.5	25253.6	25811.2	25931.1	25837.3	25879.0	25597.6	25644.5
17.5°	20047.6	19901.7	20282.1	21751.7	23846.6	24951.4	24868.0	24597.0	24180.1	24273.9
20°	18218.5	18176.8	18135.1	18484.2	19948.6	23299.4	23414.1	22726.2	22132.1	22001.8
22.5°	17186.6	17171.0	17129.3	17207.5	17593.1	19745.4	21058.6	20422.8	20026.8	19990.3
25°	16243.4	16217.4	16092.3	16191.3	16191.3	16316.4	17999.6	18385.2	18036.1	17994.4
27.5°	15284.5	15237.6	15216.8	15263.7	15024.0	14179.8	14607.1	16488.3	16305.9	16316.4
30°	14247.5	14231.9	14174.6	14273.6	13533.6	12486.1	12215.1	14768.6	14805.1	14794.7
32.5°	12705.0	12772.7	13033.3	13142.7	11923.3	11058.2	10604.9	12777.9	13523.2	13507.5
35°	9229.1	9229.1	10078.5	11657.5	10448.5	9797.1	9552.2	10834.2	12256.8	12308.9
37.5°	7587.6	7613.6	7780.4	8499.5	9015.4	8786.1	8713.2	9119.7	10630.9	10714.3
40°	6826.7	6826.7	6826.7	6529.7	6514.0	7915.9	7874.2	7743.9	9182.2	9364.6
42.5°	6133.6	6149.3	6159.7	5409.3	4992.4	6842.3	6748.5	6550.5	7884.6	8098.3
45°	5419.7	5445.7	5477.0	4523.4	4341.0	4924.6	5711.5	5492.6	6602.6	6878.8
47.5°	3309.1	3350.8	4059.6	3835.5	3856.3	3799.0	4658.8	4622.4	5414.5	5805.3
50°	2235.6	2251.3	2319.0	2433.6	3309.1	2986.0	3298.7	3825.0	4111.7	4705.7
52.5°	1876.0	1902.1	1735.3	1579.0	2173.1	2334.6	2303.4	2840.1	2954.8	3689.6
55°	1318.4	1401.8	1323.7	1308.0	1235.1	1813.5	1745.8	2183.5	2256.5	2803.6
57.5°	135.5	156.3	271.0	974.5	807.7	1026.6	1245.5	1599.8	1672.8	2068.9
60°	10.4	10.4	26.1	135.5	588.9	614.9	859.9	984.9	1125.6	1443.5
62.5°	0.0	5.2	10.4	20.8	93.8	328.3	432.5	515.9	677.5	932.8
65°	0.0	0.0	5.2	15.6	20.8	125.1	166.8	271.0	370.0	578.4
67.5°	0.0	0.0	5.2	10.4	15.6	31.3	57.3	99.0	198.0	328.3
70°	0.0	0.0	5.2	10.4	15.6	26.1	41.7	62.5	88.6	177.2
72.5°	0.0	0.0	5.2	5.2	10.4	26.1	31.3	41.7	62.5	88.6
75°	0.0	0.0	5.2	5.2	15.6	31.3	26.1	31.3	41.7	57.3
77.5°	0.0	0.0	5.2	10.4	15.6	31.3	26.1	31.3	31.3	36.5
80°	0.0	0.0	5.2	10.4	20.8	36.5	31.3	31.3	26.1	26.1
82.5°	0.0	0.0	5.2	15.6	20.8	46.9	46.9	41.7	20.8	15.6
85°	0.0	0.0	10.4	20.8	31.3	52.1	52.1	41.7	15.6	10.4
87.5°	0.0	0.0	10.4	15.6	26.1	36.5	52.1	41.7	15.6	5.2
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°
28161.5	0°	28161.5	28161.5	28161.5	28161.5	28161.5	28161.5	28161.5	28161.5	28161.5
28072.9	2.5°	28213.6	28182.3	28286.6	28328.3	28385.6	28166.7	28031.2	28036.4	27786.3
27755.0	5°	27921.8	27927.0	28062.5	28052.1	28109.4	27989.5	27937.4	27848.8	27630.0
27353.8	7.5°	27551.8	27504.9	27635.2	27734.2	27588.3	27671.6	27551.8	27593.5	27463.2
26999.4	10°	27265.2	27155.7	27275.6	27343.3	27348.6	27265.2	27150.5	27041.1	26994.2
26447.0	12.5°	26629.4	26488.7	26691.9	26785.7	26770.1	26608.6	26478.3	26504.3	26353.2
25477.7	15°	25753.9	25759.1	25905.0	25993.6	25910.3	25873.8	25884.2	25821.7	25691.4
24138.4	17.5°	24414.6	24492.8	24878.4	25092.1	25139.0	25066.0	25029.6	24956.6	24826.3
22001.8	20°	22184.2	22653.2	23341.1	24002.9	24133.2	24112.4	23982.1	23950.8	23877.9
19886.1	22.5°	20224.8	20573.9	21371.3	22403.1	22934.6	22986.8	22830.4	22783.5	22705.3
17994.4	25°	18197.6	18572.8	19292.0	20412.4	21512.0	21736.1	21710.0	21569.3	21485.9
16316.4	27.5°	16488.3	16863.6	17515.0	18525.9	19703.7	20422.8	20490.6	20266.5	20261.3
14820.7	30°	14945.8	15461.7	15956.8	16780.2	17921.4	19000.2	19114.8	18958.5	18974.1
13450.2	32.5°	13736.8	14164.1	14586.2	15138.6	16087.1	17343.0	17791.2	17645.2	17587.9
12308.9	35°	12501.7	12793.6	13226.1	13731.6	14377.8	15623.3	16399.8	16290.3	16233.0
10766.4	37.5°	11094.7	11595.0	11907.7	12475.7	12981.2	13971.3	15065.7	15050.0	14930.2
9453.2	40°	9651.2	10177.5	10651.8	11225.0	11615.8	12402.7	13617.0	13611.7	13627.4
8093.0	42.5°	8343.2	8827.8	9401.1	10026.4	10401.6	10974.9	12277.7	12350.6	12439.2
6972.6	45°	7160.2	7598.0	8129.5	8890.4	9343.7	9672.0	10828.9	11162.5	11157.3
5972.1	47.5°	6097.1	6508.8	6957.0	7697.0	8275.4	8572.5	9531.3	10005.6	9974.3
4898.6	50°	5117.4	5482.2	5951.2	6488.0	7264.5	7525.0	8239.0	8864.3	8817.4
3903.2	52.5°	4116.9	4622.4	5018.4	5508.3	6326.4	6581.8	7134.2	7743.9	7707.4
2928.7	55°	3210.1	3700.0	4179.4	4601.5	5289.4	5669.8	6065.9	6691.2	6680.8
2292.9	57.5°	2428.4	2965.2	3418.6	3819.8	4367.0	4836.0	5153.9	5721.9	5794.9
1568.6	60°	1797.9	2209.6	2699.4	3147.6	3580.1	4064.8	4278.4	4836.0	4867.3
1073.5	62.5°	1224.6	1678.0	2157.5	2563.9	2887.0	3387.3	3580.1	4038.7	4096.0
687.9	65°	849.4	1141.3	1688.4	1980.3	2376.3	2803.6	2996.5	3361.2	3475.9
396.1	67.5°	562.8	813.0	1318.4	1584.2	1975.1	2266.9	2511.8	2808.9	2933.9
250.1	70°	307.5	599.3	943.2	1250.7	1589.4	1870.8	2110.5	2350.3	2459.7
114.6	72.5°	208.4	401.3	656.6	990.1	1282.0	1558.2	1771.8	1949.0	1954.2
67.7	75°	104.2	271.0	500.3	766.1	1000.6	1271.5	1464.4	1568.6	1443.5
41.7	77.5°	62.5	198.0	406.5	614.9	813.0	1026.6	1136.0	1193.4	990.1
31.3	80°	36.5	140.7	317.9	489.9	562.8	755.6	859.9	875.5	661.8
20.8	82.5°	26.1	104.2	250.1	359.6	343.9	531.5	646.2	625.3	422.1
15.6	85°	15.6	73.0	156.3	224.1	208.4	349.2	375.2	385.6	244.9
10.4	87.5°	10.4	41.7	83.4	119.9	99.0	151.1	151.1	182.4	119.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
28161.5
27463.2
27577.8
27244.3
26785.7
26222.9
25561.1
24769.0
23711.1
22684.5
21397.3
20250.9
18895.9
17593.1
16154.8
15029.2
13627.4
12392.3
11167.7
9984.7
8859.1
7785.6
6706.9
5763.6
4914.2
4106.5
3449.8
2918.3
2418.0
1907.3
1349.7
953.7
620.1
390.8
224.1
104.2
0.0

(END OF REPORT)