

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: P721929

Luminaire Tested: **CST-CA8-430-750-U-T2**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA8-430-750-U-T2
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65918 lumens
Efficiency: N/A
Efficacy: 151.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

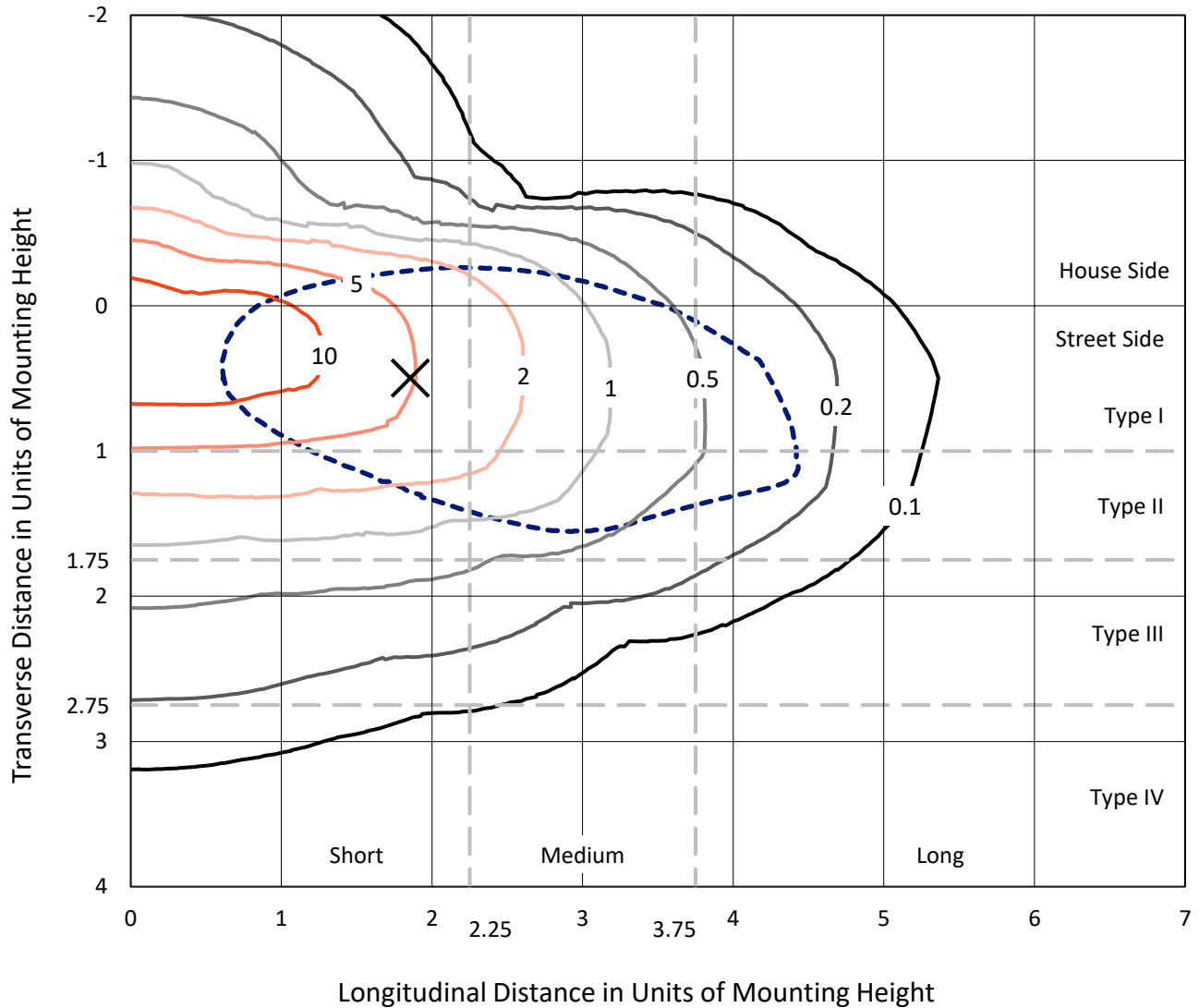
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

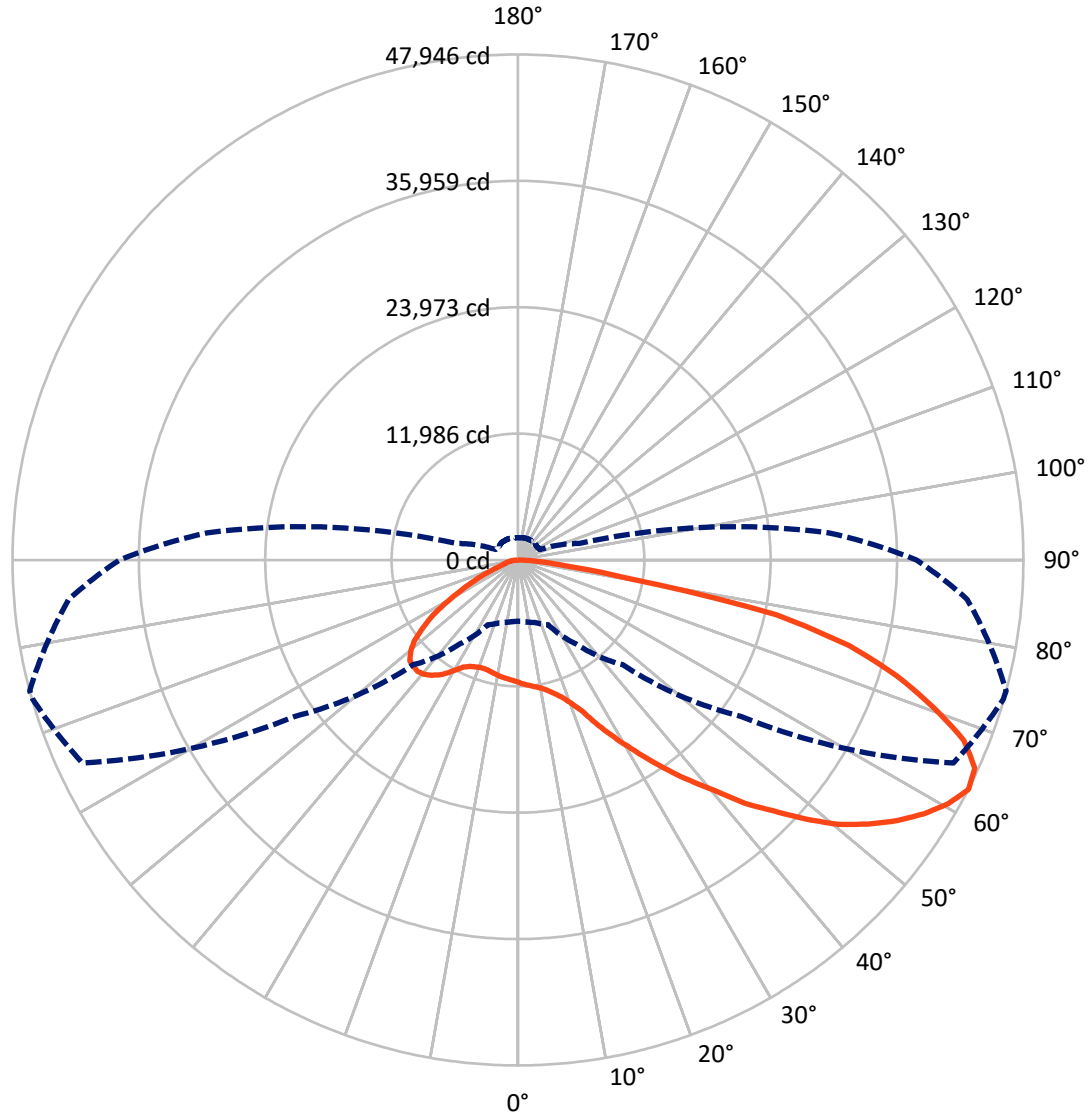
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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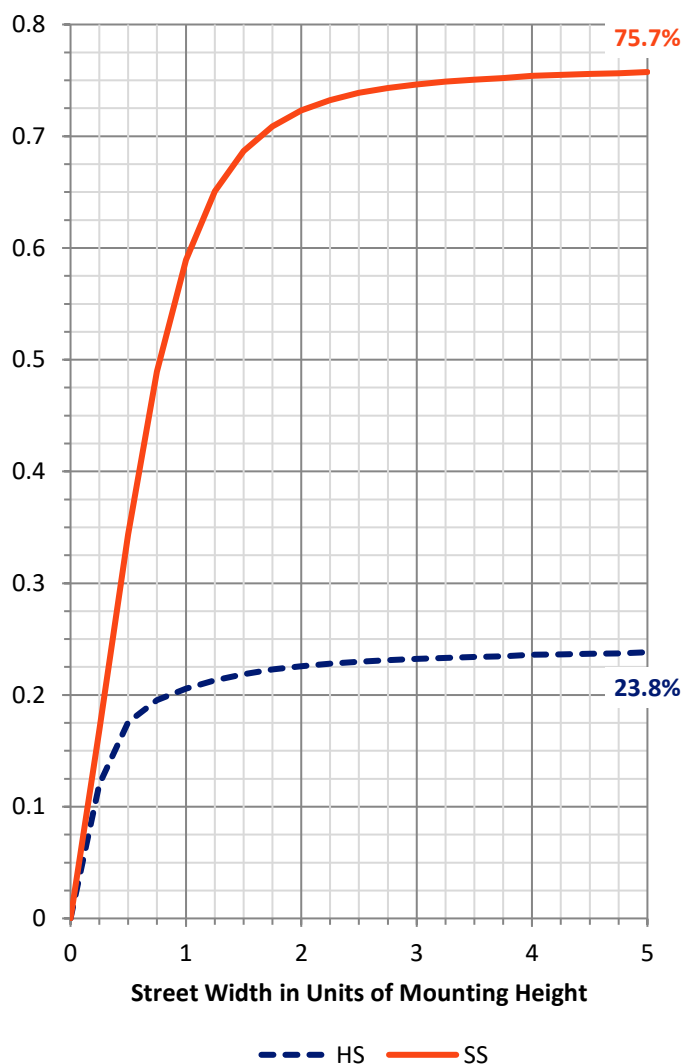
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15970.8	0.0	15970.8
	% Fixture	24.2	0.0	24.2
Street Side	Lumens	49947.2	0.0	49947.2
	% Fixture	75.8	0.0	75.8
Total	Lumens	65918.0	0.0	65918.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1117.9	1.7
10°-20°	3392.6	5.1
20°-30°	5851.5	8.9
30°-40°	8628.1	13.1
40°-50°	11373.7	17.3
50°-60°	13385.8	20.3
60°-70°	13317.6	20.2
70°-80°	7766.4	11.8
80°-90°	1084.4	1.6
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°	65918.0	100.0
0°-180°	65918.0	100.0

Coefficient of Utilization

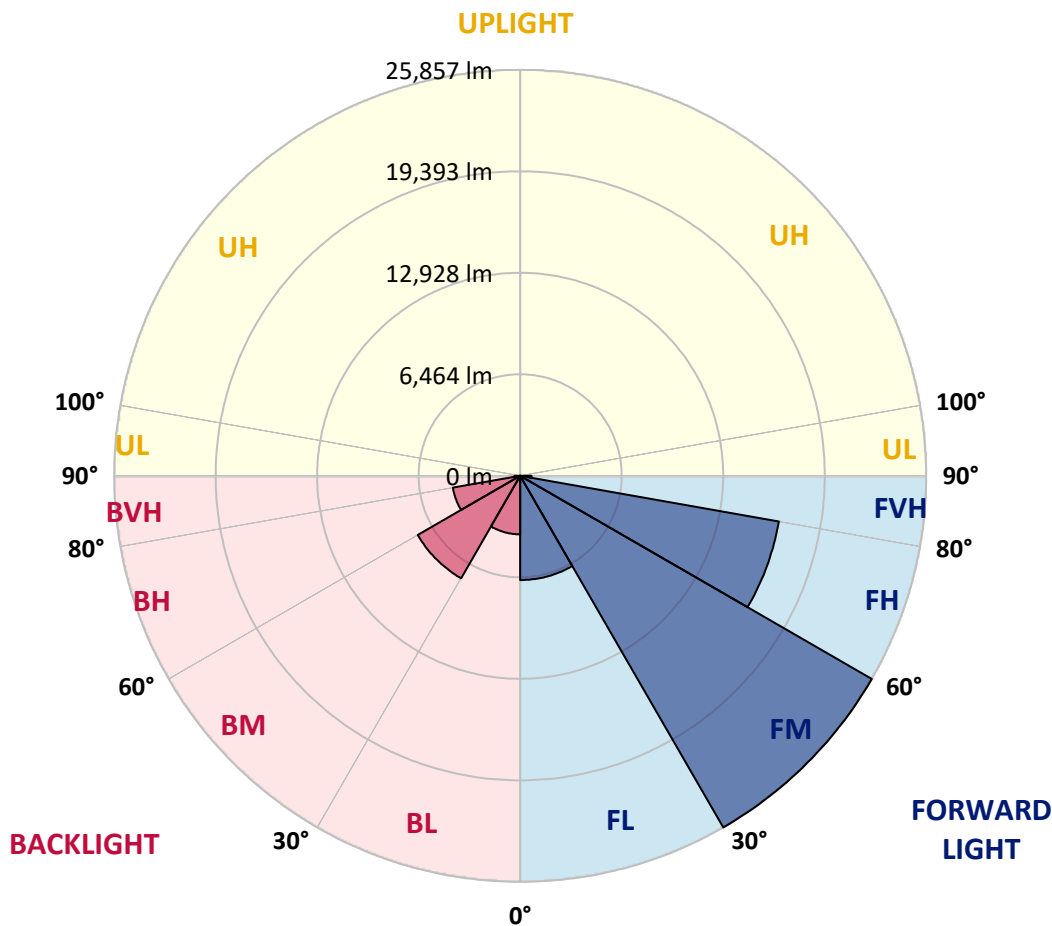


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6637.7	10.1			
FM (30°-60°)	25856.9	39.2			
FH (60°-80°)	16733.0	25.4			G5
FVH (80°-90°)	719.6	1.1			G4/750
BL (0°-30°)	3724.3	5.6	B4/5000		
BM (30°-60°)	7530.7	11.4	B4/8500		
BH (60°-80°)	4351.0	6.6	B4/5000		G4/5000
BVH (80°-90°)	364.8	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	11619.8	11619.8	11619.8	11619.8	11619.8	11619.8	11619.8	11619.8	11619.8	11619.8	11619.8
2.5°	12256.1	12205.9	12212.7	12177.4	12124.5	12085.2	11982.1	11870.8	11804.3	11798.9	11704.0
5°	12872.0	12888.3	12892.4	12779.8	12668.5	12542.4	12385.0	12170.6	11995.6	11968.5	11784.0
7.5°	13433.7	13432.3	13424.2	13361.8	13310.2	13123.0	12808.3	12471.8	12186.9	12161.1	11861.3
10°	14008.9	14004.9	13923.5	13819.0	13702.3	13530.0	13260.0	12857.1	12395.9	12361.9	11933.2
12.5°	14635.7	14590.9	14539.4	14413.2	14274.8	13976.4	13692.8	13254.6	12773.0	12712.0	12060.8
15°	15152.6	15106.5	15034.6	14949.1	14803.9	14576.0	14274.8	13755.2	13238.3	13178.6	12347.0
17.5°	15664.1	15642.4	15590.8	15499.9	15388.7	15191.9	14915.2	14474.3	13797.3	13724.0	12823.2
20°	16083.3	16031.7	15993.7	16035.8	16045.3	15900.1	15748.2	15377.8	14631.6	14519.0	13407.9
22.5°	16322.0	16311.2	16518.8	16673.4	16735.8	16768.4	16720.9	16422.4	15746.8	15550.1	14221.9
25°	16548.6	16531.0	16813.2	17199.8	17567.5	17754.7	17880.8	17920.2	17300.2	17122.5	15531.1
27.5°	16555.4	16604.2	17013.9	17662.4	18222.7	18793.9	19399.0	19468.1	18924.1	18783.0	17020.7
30°	16592.0	16613.7	17019.4	17764.2	18930.9	19846.7	20634.9	21024.2	20554.8	20489.7	18660.9
32.5°	16126.7	16155.2	16786.0	17941.9	19465.4	20936.1	21982.0	22560.0	22443.3	22360.6	20411.0
35°	15642.4	15666.8	16399.4	17689.6	19862.9	21925.1	23199.0	24334.5	24547.5	24485.1	22363.3
37.5°	14882.6	14964.0	15731.9	17388.4	19932.1	22652.2	24360.3	26102.2	26745.3	26558.1	24428.1
40°	14057.8	14117.5	15011.5	16757.5	19854.8	23129.8	25501.2	28058.6	28837.3	28736.9	26478.0
42.5°	13015.8	13175.9	14071.3	15951.7	19457.3	23426.9	26556.7	30276.7	31408.2	31542.5	28361.1
45°	12138.1	12134.0	12965.7	14784.9	18736.9	23497.4	27528.1	32519.3	34174.4	33922.1	30850.6
47.5°	11105.7	11147.7	12016.0	13623.6	17674.6	23273.6	28285.1	35170.2	36845.7	36708.6	32892.3
50°	8716.6	9019.1	10663.4	12625.1	16237.9	22649.5	28916.0	37751.9	39351.4	39413.8	34748.3
52.5°	7514.6	7631.2	8538.9	11619.8	14962.7	21602.2	29607.9	40656.5	41773.1	41614.4	36855.2
55°	7033.0	7095.4	7530.8	9814.1	13729.5	19981.0	29940.2	43308.8	43661.6	43635.8	38589.0
57.5°	6684.3	6731.8	7041.1	8190.2	12375.5	17899.8	29659.4	45034.5	45582.6	45414.4	40225.1
60°	6181.0	6219.0	6680.2	7380.3	10982.2	15798.4	27932.4	45817.3	46975.9	46913.5	41671.3
62.5°	5802.5	5867.6	6125.3	6782.0	9792.4	14067.3	25874.3	45573.1	47890.3	47945.9	42775.7
65°	5402.2	5460.6	5679.0	6252.9	8713.9	12929.0	23654.8	44349.4	47469.7	47617.6	42954.7
67.5°	4908.4	4953.2	5212.3	5708.8	7453.5	11790.8	21151.8	42185.5	45136.3	45612.4	41172.1
70°	4287.1	4303.3	4620.8	4958.6	6189.1	10074.6	16818.6	38643.3	41759.5	41769.0	37806.2
72.5°	3412.0	3425.6	3509.7	3766.1	4649.3	7973.1	12361.9	32288.6	37654.2	37585.1	33600.5
75°	2319.9	2439.3	2731.0	2975.2	3353.7	5599.0	7688.2	21754.1	31902.0	32444.7	27600.0
77.5°	1832.9	1843.7	1964.5	2188.3	2515.3	4182.6	4308.8	12036.3	23783.7	25073.9	21694.4
80°	1278.0	1297.0	1231.9	1286.1	1754.2	2862.6	2518.0	5238.1	9918.6	10590.1	13025.3
82.5°	609.1	630.8	724.5	672.9	872.3	1216.9	1329.5	2706.5	4284.3	4397.0	5071.2
85°	401.6	401.6	402.9	381.2	508.7	530.5	603.7	1154.5	2092.0	2162.5	2150.3
87.5°	128.9	142.4	138.4	161.4	195.4	176.4	184.5	362.2	717.7	710.9	594.2
90°	0.0	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°	180°
0°	11619.8	11619.8	11619.8	11619.8	11619.8	11619.8	11619.8	11619.8	11619.8	11619.8	11619.8
2.5°	11636.1	11580.5	11450.3	11336.3	11223.7	11138.2	11065.0	10967.3	10921.2	10879.1	10967.3
5°	11670.0	11571.0	11337.7	11104.3	10890.0	10732.6	10636.3	10565.7	10501.9	10501.9	10531.8
7.5°	11709.4	11575.1	11241.3	10910.3	10588.8	10409.7	10272.7	10183.1	10131.6	10134.3	10198.1
10°	11735.2	11528.9	11131.4	10685.1	10335.1	10047.5	9913.2	9784.3	9686.6	9628.3	9693.4
12.5°	11765.0	11514.0	10983.6	10480.2	10054.2	9728.6	9449.2	9352.9	9257.9	9184.6	9219.9
15°	11949.5	11571.0	10860.1	10219.8	9725.9	9320.3	8954.0	8777.6	8750.5	8700.3	8712.5
17.5°	12250.7	11724.3	10780.1	9900.9	9331.1	8852.2	8388.3	8160.3	8106.1	8080.3	8093.9
20°	12699.7	12016.0	10804.5	9677.1	8886.2	8350.3	7750.6	7483.4	7302.9	7313.8	7366.7
22.5°	13386.2	12486.7	10937.4	9431.5	8404.5	7701.8	7096.7	6733.1	6551.3	6512.0	6571.7
25°	14479.7	13245.1	11084.0	9196.8	7939.2	7001.7	6331.6	5938.1	5704.8	5689.9	5756.3
27.5°	15881.1	14407.8	11402.8	8993.3	7361.3	6160.6	5494.5	5158.0	4909.8	4879.9	4858.2
30°	17315.1	15699.3	11979.4	8684.0	6687.0	5292.4	4713.1	4449.9	4171.7	4059.1	4083.6
32.5°	18834.6	16902.7	12655.0	8466.9	5932.7	4528.5	4025.2	3774.2	3519.2	3356.4	3318.4
35°	20364.9	18099.3	13223.4	8142.7	5217.7	3922.1	3440.5	3181.4	2958.9	2825.9	2816.4
37.5°	22155.7	19344.7	13679.3	7798.1	4475.6	3447.3	2868.0	2718.8	2611.6	2494.9	2507.1
40°	23949.2	20796.3	14044.2	7228.3	3859.7	2937.2	2440.6	2470.5	2493.6	2395.9	2387.7
42.5°	25438.8	22016.0	14211.1	6490.3	3314.3	2493.6	2252.1	2387.7	2488.1	2424.4	2416.2
45°	26951.5	23043.0	14145.9	5574.5	2861.2	2281.9	2237.1	2375.5	2504.4	2489.5	2482.7
47.5°	28595.8	24388.8	14033.3	4531.3	2537.0	2261.6	2269.7	2334.8	2497.6	2524.8	2513.9
50°	30606.4	25627.4	13367.2	3528.7	2379.6	2294.1	2343.0	2309.0	2447.4	2503.0	2512.5
52.5°	32607.4	26581.1	12475.9	3057.9	2317.2	2325.3	2444.7	2329.4	2390.4	2439.3	2484.1
55°	34151.3	27552.5	11033.8	2774.4	2296.8	2340.2	2473.2	2372.8	2371.5	2371.5	2386.4
57.5°	35731.9	28853.6	9591.6	2591.2	2261.6	2356.5	2439.3	2380.9	2362.0	2334.8	2317.2
60°	36832.1	29335.2	7738.4	2470.5	2224.9	2333.5	2344.3	2336.2	2277.8	2252.1	2231.7
62.5°	37808.9	29597.0	6025.0	2332.1	2174.7	2279.2	2222.2	2204.6	2170.7	2108.3	2119.1
65°	37547.1	29035.4	4591.0	2176.1	2139.5	2214.1	2115.0	2073.0	2075.7	2010.6	2032.3
67.5°	35862.1	26516.0	3296.7	1937.3	2043.1	2085.2	1992.9	1961.7	1915.6	1883.1	1912.9
70°	32458.2	23505.6	2223.6	1607.6	1823.4	1914.3	1853.2	1798.9	1727.0	1705.3	1737.9
72.5°	27319.2	19621.4	1534.4	1292.9	1573.7	1691.8	1668.7	1613.1	1561.5	1614.4	1678.2
75°	22443.3	14516.3	1252.2	1059.6	1210.1	1409.6	1477.4	1493.7	1648.3	2163.9	2216.8
77.5°	16155.2	8998.8	1126.0	861.5	965.9	1127.4	1263.1	1318.7	2013.3	1927.8	1923.8
80°	9419.3	5244.9	858.8	679.7	781.4	826.2	987.7	1548.0	1736.5	1489.6	1453.0
82.5°	4297.9	2314.5	598.3	544.0	542.7	546.7	672.9	1489.6	1332.2	1173.5	1130.1
85°	1580.5	814.0	363.6	314.7	360.9	313.4	440.9	1092.1	771.9	759.7	633.6
87.5°	389.4	166.9	123.5	103.1	84.1	80.0	134.3	359.5	188.6	172.3	165.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)