

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: P721909

Luminaire Tested: **CST-CA8-430-730-U-T2**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721909
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-CA8-430-730-U-T2
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63559 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

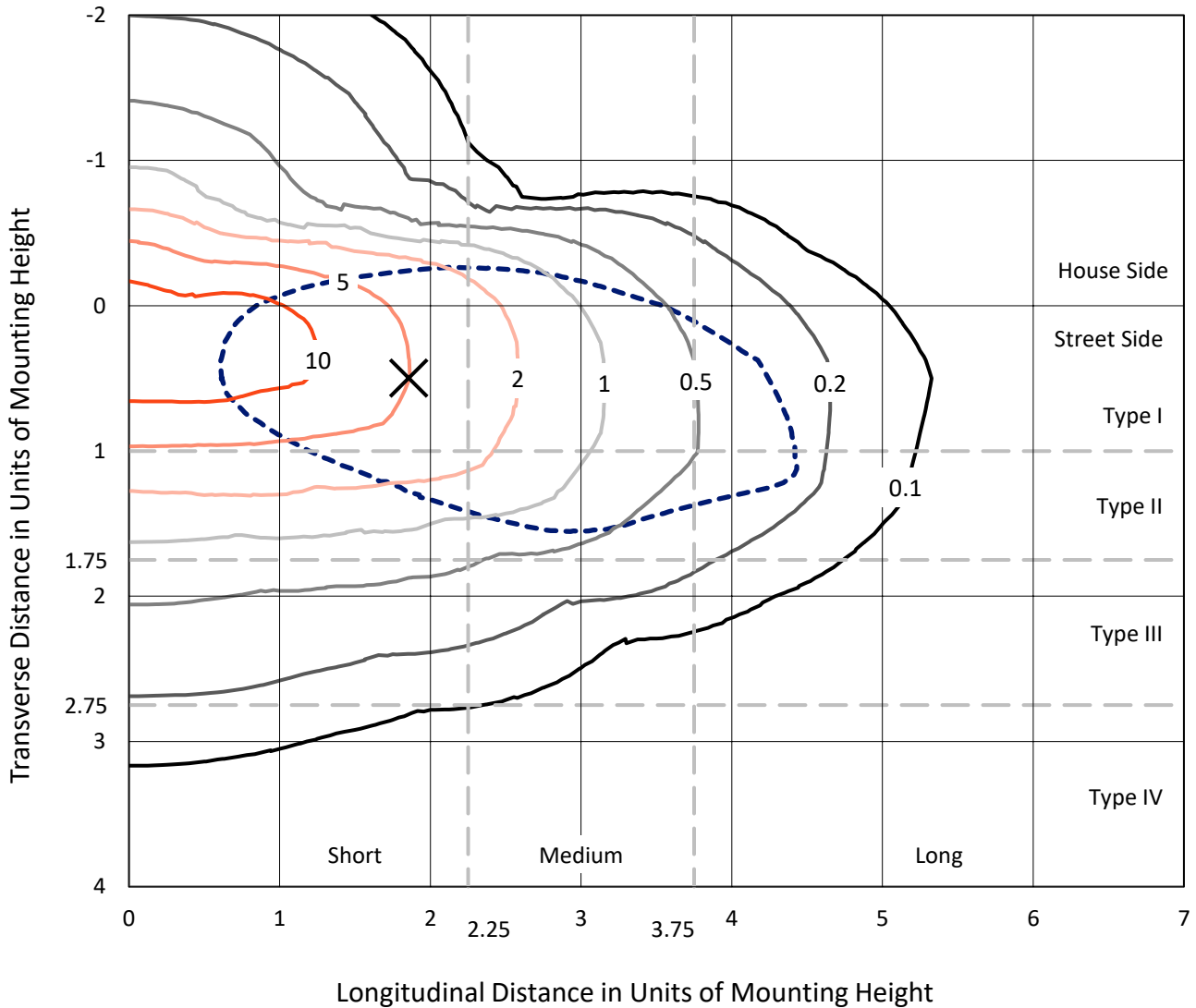
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

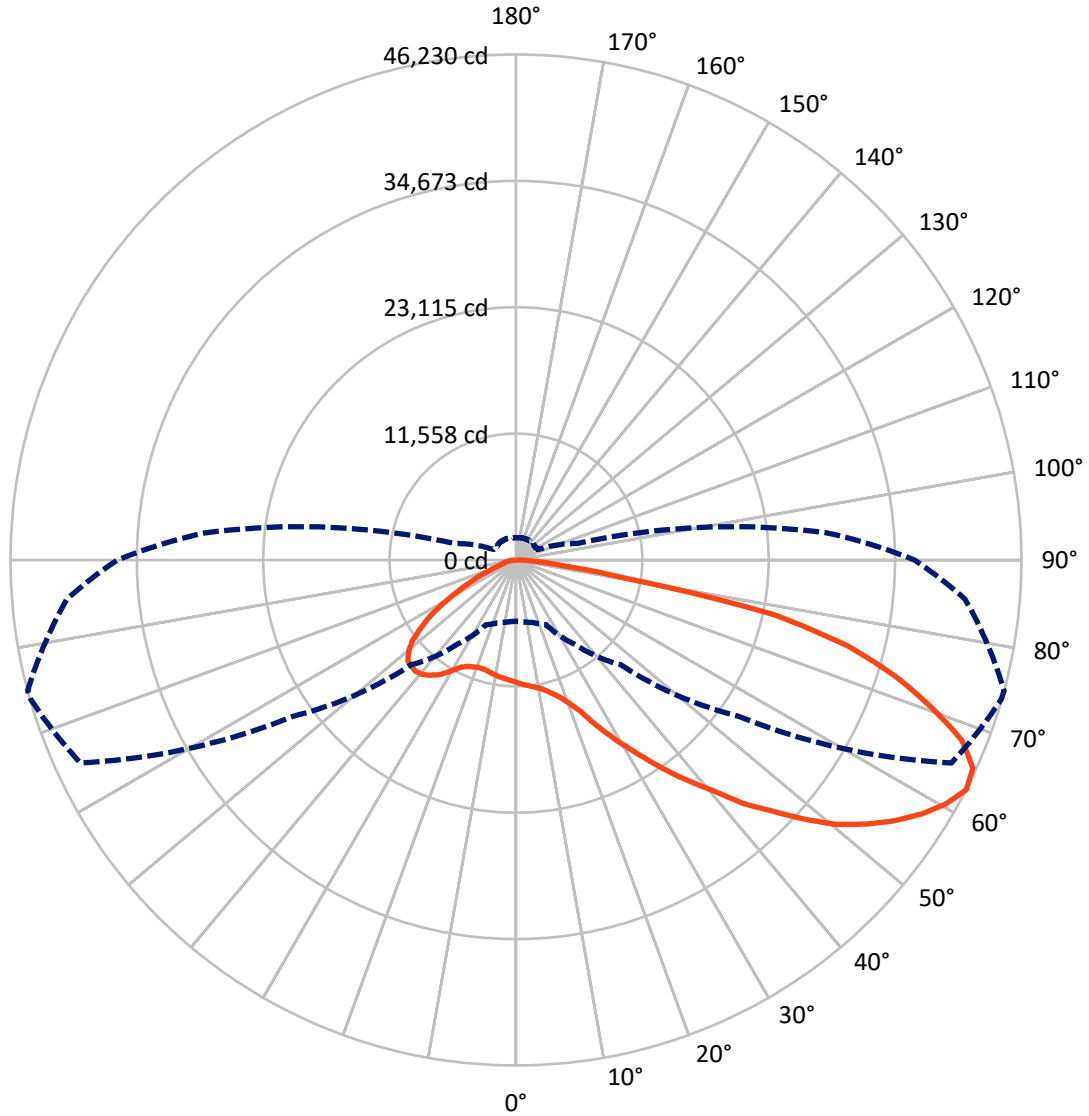
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.6 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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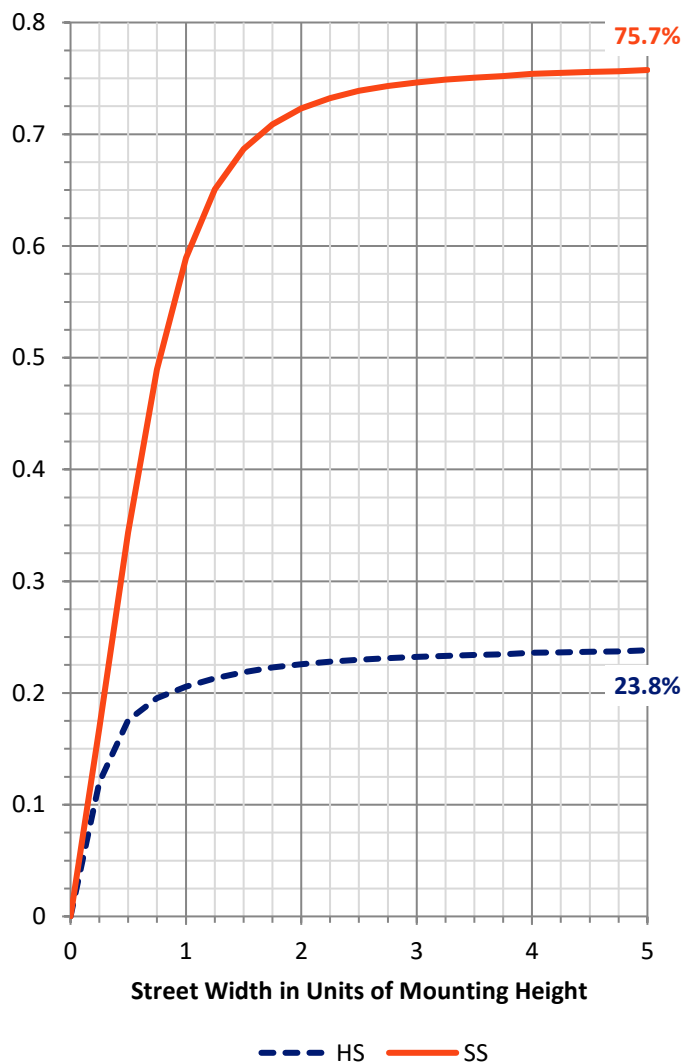
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15399.2	0.0	15399.2
	% Fixture	24.2	0.0	24.2
Street Side	Lumens	48159.8	0.0	48159.8
	% Fixture	75.8	0.0	75.8
Total	Lumens	63559.0	0.0	63559.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1077.9	1.7
10°-20°	3271.2	5.1
20°-30°	5642.1	8.9
30°-40°	8319.3	13.1
40°-50°	10966.7	17.3
50°-60°	12906.8	20.3
60°-70°	12841.0	20.2
70°-80°	7488.5	11.8
80°-90°	1045.6	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°	63559.0	100.0
0°-180°	63559.0	100.0

Coefficient of Utilization

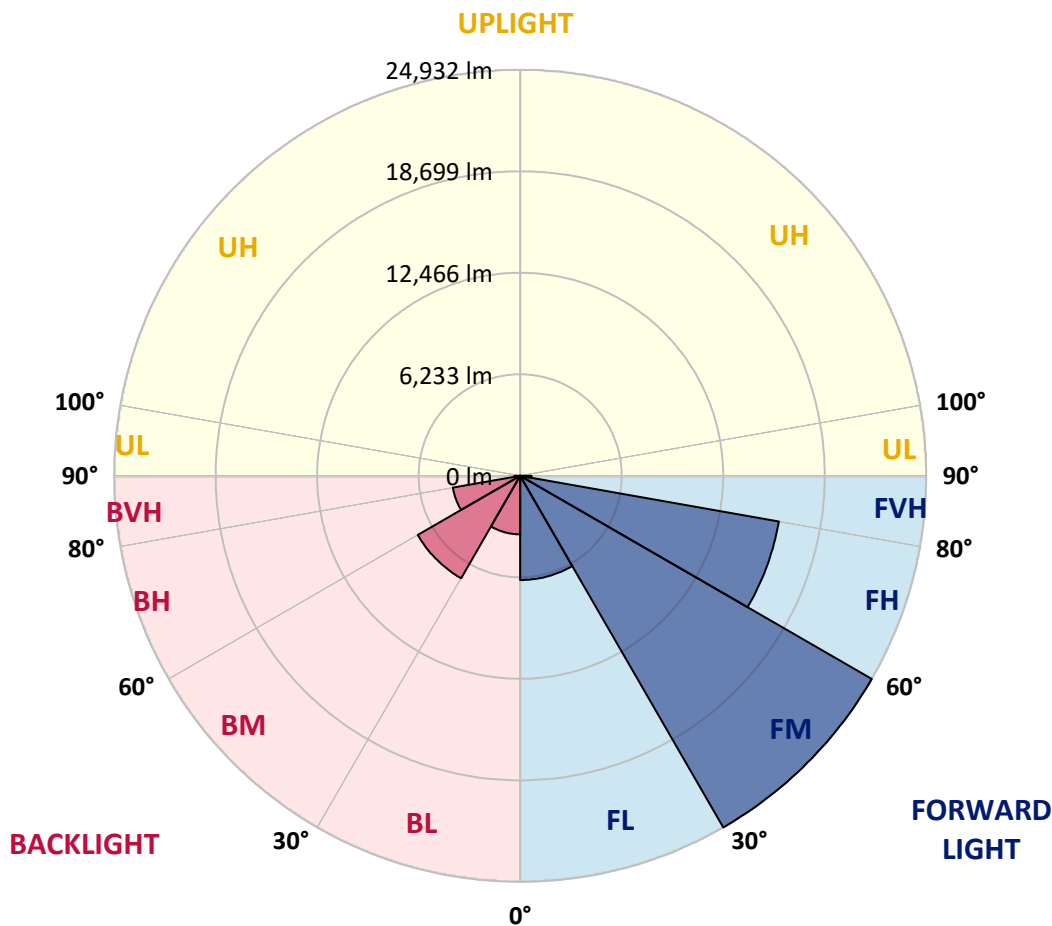


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6400.1	10.1			
FM (30°-60°)	24931.6	39.2			
FH (60°-80°)	16134.2	25.4			G5
FVH (80°-90°)	693.9	1.1			G4/750
BL (0°-30°)	3591.0	5.6	B4/5000		
BM (30°-60°)	7261.2	11.4	B4/8500		
BH (60°-80°)	4195.3	6.6	B4/5000		G4/5000
BVH (80°-90°)	351.7	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°	11204.0	11204.0	11204.0	11204.0	11204.0	11204.0	11204.0	11204.0	11204.0	11204.0	11204.0
2.5°	11817.5	11769.1	11775.6	11741.6	11690.6	11652.7	11553.3	11446.0	11381.9	11376.7	11285.1
5°	12411.4	12427.1	12431.0	12322.4	12215.2	12093.5	11941.8	11735.1	11566.3	11540.2	11362.3
7.5°	12952.9	12951.6	12943.8	12883.6	12833.9	12653.4	12349.9	12025.5	11750.8	11725.9	11436.8
10°	13507.6	13503.7	13425.2	13324.5	13212.0	13045.8	12785.5	12397.0	11952.2	11919.5	11506.2
12.5°	14111.9	14068.8	14019.1	13897.4	13764.0	13476.2	13202.8	12780.3	12315.9	12257.0	11629.1
15°	14610.3	14565.9	14496.5	14414.1	14274.1	14054.4	13764.0	13263.0	12764.6	12707.0	11905.1
17.5°	15103.5	15082.6	15032.9	14945.2	14837.9	14648.3	14381.4	13956.3	13303.5	13232.9	12364.3
20°	15507.7	15458.0	15421.4	15461.9	15471.1	15331.1	15184.6	14827.5	14108.0	13999.4	12928.1
22.5°	15737.9	15727.5	15927.6	16076.7	16136.9	16168.3	16122.5	15834.7	15183.3	14993.6	13713.0
25°	15956.4	15939.4	16211.5	16584.3	16938.8	17119.3	17240.9	17278.9	16681.1	16509.7	14975.3
27.5°	15962.9	16010.0	16405.1	17030.3	17570.6	18121.3	18704.7	18771.4	18246.9	18110.8	16411.6
30°	15998.2	16019.2	16410.3	17128.5	18253.4	19136.4	19896.4	20271.8	19819.2	19756.5	17993.1
32.5°	15549.6	15577.0	16185.3	17299.8	18768.8	20186.8	21195.4	21752.6	21640.1	21560.3	19680.6
35°	15082.6	15106.1	15812.5	17056.5	19152.1	21140.4	22368.8	23463.6	23669.0	23608.8	21563.0
37.5°	14350.0	14428.5	15168.9	16766.1	19218.8	21841.6	23488.5	25168.1	25788.2	25607.6	23553.9
40°	13554.7	13612.2	14474.3	16157.8	19144.3	22302.0	24588.6	27054.4	27805.3	27708.5	25530.5
42.5°	12550.1	12704.4	13567.8	15380.8	18761.0	22588.5	25606.3	29193.2	30284.2	30413.7	27346.1
45°	11703.7	11699.8	12501.6	14255.8	18066.4	22656.5	26543.0	31355.5	32951.4	32708.1	29746.5
47.5°	10708.2	10748.8	11586.0	13136.1	17042.1	22440.7	27272.9	33911.6	35527.1	35395.0	31715.2
50°	8404.6	8696.3	10281.8	12173.3	15656.8	21839.0	27881.2	36400.9	37943.2	38003.3	33504.7
52.5°	7245.6	7358.1	8233.3	11204.0	14427.2	20829.1	28548.3	39201.6	40278.2	40125.1	35536.2
55°	6781.3	6841.4	7261.3	9462.9	13238.1	19265.9	28868.8	41758.9	42099.0	42074.2	37208.0
57.5°	6445.1	6490.9	6789.1	7897.1	11932.6	17259.3	28598.0	43422.9	43951.3	43789.1	38785.6
60°	5959.8	5996.4	6441.2	7116.1	10589.2	15233.0	26932.8	44177.6	45294.8	45234.6	40180.0
62.5°	5594.8	5657.6	5906.1	6539.3	9442.0	13563.8	24948.4	43942.2	46176.4	46230.1	41244.8
65°	5208.9	5265.2	5475.8	6029.1	8402.0	12466.3	22808.3	42762.3	45770.9	45913.5	41417.5
67.5°	4732.8	4775.9	5025.8	5504.5	7186.8	11368.8	20394.8	40675.8	43521.0	43980.1	39698.7
70°	4133.6	4149.3	4455.4	4781.2	5967.6	9714.1	16216.7	37260.3	40265.1	40274.2	36453.2
72.5°	3289.9	3303.0	3384.1	3631.3	4482.9	7687.8	11919.5	31133.1	36306.7	36240.0	32398.1
75°	2236.9	2352.0	2633.2	2868.7	3233.7	5398.6	7413.1	20975.6	30760.3	31283.6	26612.3
77.5°	1767.3	1777.7	1894.1	2110.0	2425.2	4032.9	4154.6	11605.6	22932.6	24176.6	20918.1
80°	1232.2	1250.6	1187.8	1240.1	1691.4	2760.1	2427.9	5050.6	9563.6	10211.1	12559.2
82.5°	587.3	608.3	698.5	648.8	841.1	1173.4	1282.0	2609.7	4131.0	4239.6	4889.7
85°	387.2	387.2	388.5	367.6	490.5	511.5	582.1	1113.2	2017.1	2085.1	2073.4
87.5°	124.3	137.4	133.4	155.7	188.4	170.1	177.9	349.3	692.0	685.5	573.0
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°	11204.0	11204.0	11204.0	11204.0	11204.0	11204.0	11204.0	11204.0	11204.0	11204.0	11204.0
2.5°	11219.7	11166.1	11040.5	10930.6	10822.0	10739.6	10669.0	10574.8	10530.3	10489.8	10574.8
5°	11252.4	11156.9	10931.9	10706.9	10500.2	10348.5	10255.6	10187.6	10126.1	10126.1	10154.9
7.5°	11290.3	11160.8	10839.0	10519.9	10209.8	10037.2	9905.0	9818.7	9769.0	9771.6	9833.1
10°	11315.2	11116.4	10733.1	10302.7	9965.2	9687.9	9558.4	9434.1	9339.9	9283.7	9346.5
12.5°	11344.0	11102.0	10590.5	10105.2	9694.4	9380.5	9111.0	9018.1	8926.6	8855.9	8889.9
15°	11521.9	11156.9	10471.5	9854.0	9377.9	8986.7	8633.6	8463.5	8437.3	8388.9	8400.7
17.5°	11812.3	11304.7	10394.3	9546.6	8997.2	8535.4	8088.1	7868.3	7816.0	7791.1	7804.2
20°	12245.3	11586.0	10417.8	9330.8	8568.1	8051.4	7473.3	7215.6	7041.6	7052.0	7103.1
22.5°	12907.2	12039.9	10546.0	9094.0	8103.8	7426.2	6842.7	6492.2	6316.9	6278.9	6336.5
25°	13961.5	12771.1	10687.3	8867.7	7655.1	6751.2	6105.0	5725.6	5500.6	5486.2	5550.3
27.5°	15312.8	13892.2	10994.7	8671.5	7097.8	5940.1	5297.9	4973.5	4734.1	4705.3	4684.4
30°	16695.5	15137.5	11550.7	8373.2	6447.7	5103.0	4544.4	4290.6	4022.5	3913.9	3937.4
32.5°	18160.6	16297.8	12202.1	8163.9	5720.4	4366.5	3881.2	3639.2	3393.2	3236.3	3199.6
35°	19636.1	17451.6	12750.2	7851.3	5031.0	3781.8	3317.4	3067.5	2853.0	2724.8	2715.6
37.5°	21362.8	18652.4	13189.7	7519.0	4315.5	3323.9	2765.4	2621.5	2518.1	2405.6	2417.4
40°	23092.1	20052.1	13541.6	6969.6	3721.6	2832.1	2353.3	2382.1	2404.3	2310.1	2302.3
42.5°	24528.5	21228.1	13702.5	6258.0	3195.7	2404.3	2171.5	2302.3	2399.1	2337.6	2329.8
45°	25987.0	22218.3	13639.7	5375.0	2758.8	2200.2	2157.1	2290.5	2414.8	2400.4	2393.8
47.5°	27572.4	23516.0	13531.1	4369.1	2446.2	2180.6	2188.5	2251.3	2408.2	2434.4	2423.9
50°	29511.1	24710.3	12888.9	3402.4	2294.4	2212.0	2259.1	2226.4	2359.8	2413.5	2422.6
52.5°	31440.5	25629.9	12029.4	2948.5	2234.3	2242.1	2357.2	2246.0	2304.9	2352.0	2395.2
55°	32929.2	26566.5	10638.9	2675.1	2214.6	2256.5	2384.7	2287.9	2286.6	2286.6	2301.0
57.5°	34453.1	27821.0	9248.4	2498.5	2180.6	2272.2	2352.0	2295.7	2277.4	2251.3	2234.3
60°	35514.0	28285.4	7461.5	2382.1	2145.3	2250.0	2260.4	2252.6	2196.3	2171.5	2151.8
62.5°	36455.8	28537.8	5809.3	2248.6	2096.9	2197.6	2142.7	2125.7	2093.0	2032.8	2043.3
65°	36203.4	27996.3	4426.7	2098.2	2062.9	2134.8	2039.4	1998.8	2001.4	1938.6	1959.6
67.5°	34578.7	25567.1	3178.7	1868.0	1970.0	2010.6	1921.6	1891.5	1847.1	1815.7	1844.4
70°	31296.6	22664.4	2144.0	1550.1	1758.1	1845.7	1786.9	1734.6	1665.2	1644.3	1675.7
72.5°	26341.5	18919.3	1479.5	1246.6	1517.4	1631.2	1609.0	1555.3	1505.6	1556.7	1618.1
75°	21640.1	13996.8	1207.4	1021.6	1166.8	1359.1	1424.5	1440.2	1589.4	2086.4	2137.5
77.5°	15577.0	8676.7	1085.7	830.7	931.4	1087.0	1217.9	1271.5	1941.2	1858.8	1854.9
80°	9082.2	5057.2	828.0	655.4	753.5	796.6	952.3	1492.6	1674.4	1436.3	1401.0
82.5°	4144.1	2231.6	576.9	524.6	523.2	527.2	648.8	1436.3	1284.6	1131.5	1089.7
85°	1524.0	784.9	350.6	303.5	348.0	302.2	425.1	1053.0	744.3	732.5	610.9
87.5°	375.4	160.9	119.0	99.4	81.1	77.2	129.5	346.7	181.8	166.1	159.6
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)