

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: P721939

Luminaire Tested: **CST-CA8-430-760-U-T2**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721939
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-CA8-430-760-U-T2
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64521 lumens
Efficiency: N/A
Efficacy: 148.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

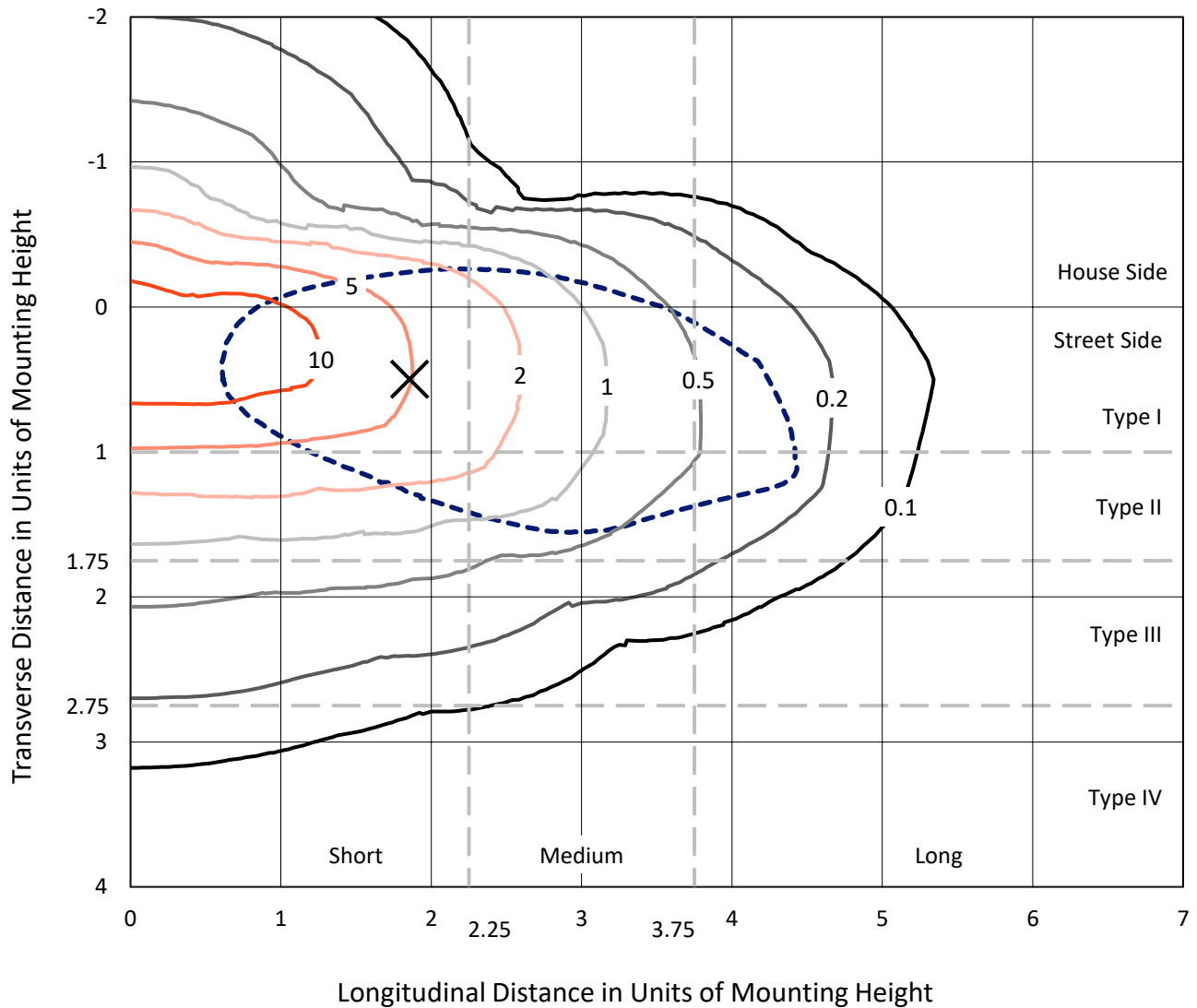
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

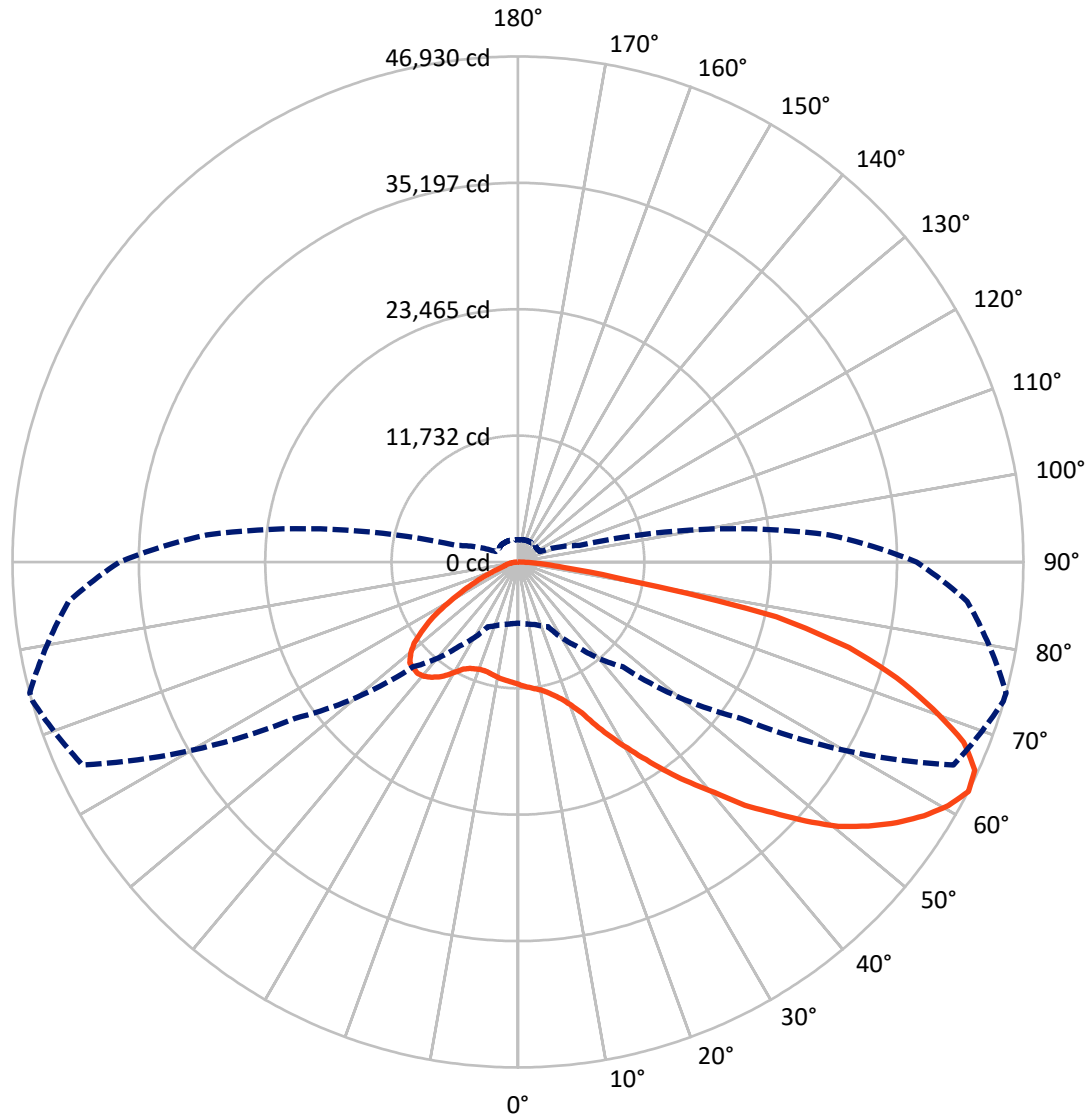
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.8 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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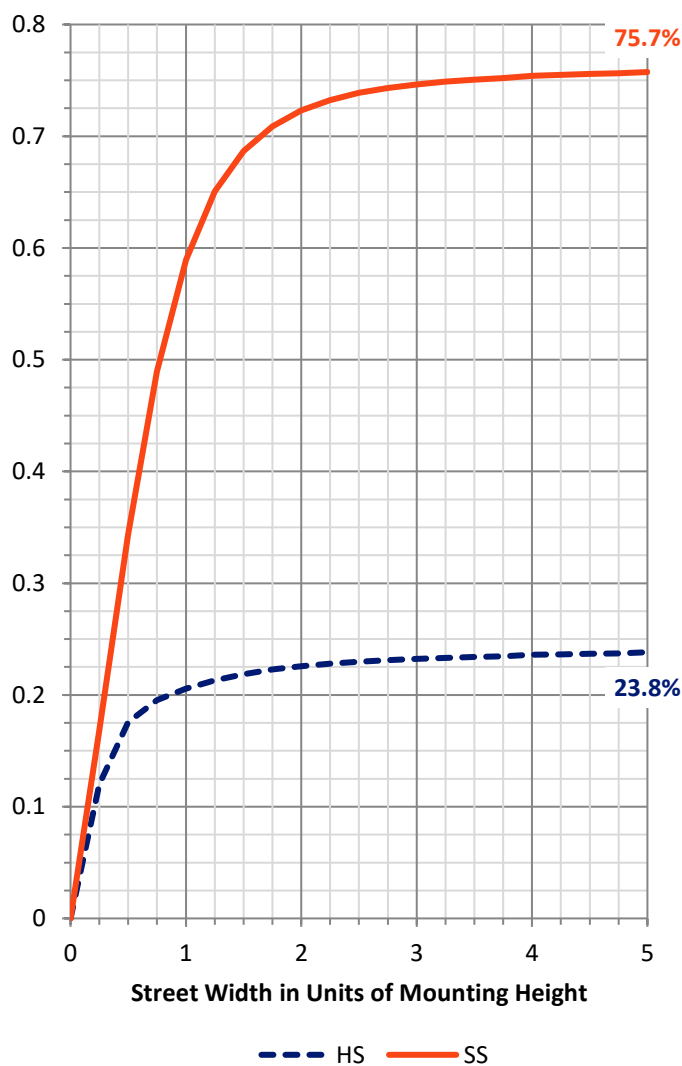
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15632.3	0.0	15632.3
	% Fixture	24.2	0.0	24.2
Street Side	Lumens	48888.7	0.0	48888.7
	% Fixture	75.8	0.0	75.8
Total	Lumens	64521.0	0.0	64521.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1094.2	1.7
10°-20°	3320.7	5.1
20°-30°	5727.5	8.9
30°-40°	8445.2	13.1
40°-50°	11132.7	17.3
50°-60°	13102.1	20.3
60°-70°	13035.3	20.2
70°-80°	7601.8	11.8
80°-90°	1061.4	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°	64521.0	100.0
0°-180°	64521.0	100.0

Coefficient of Utilization



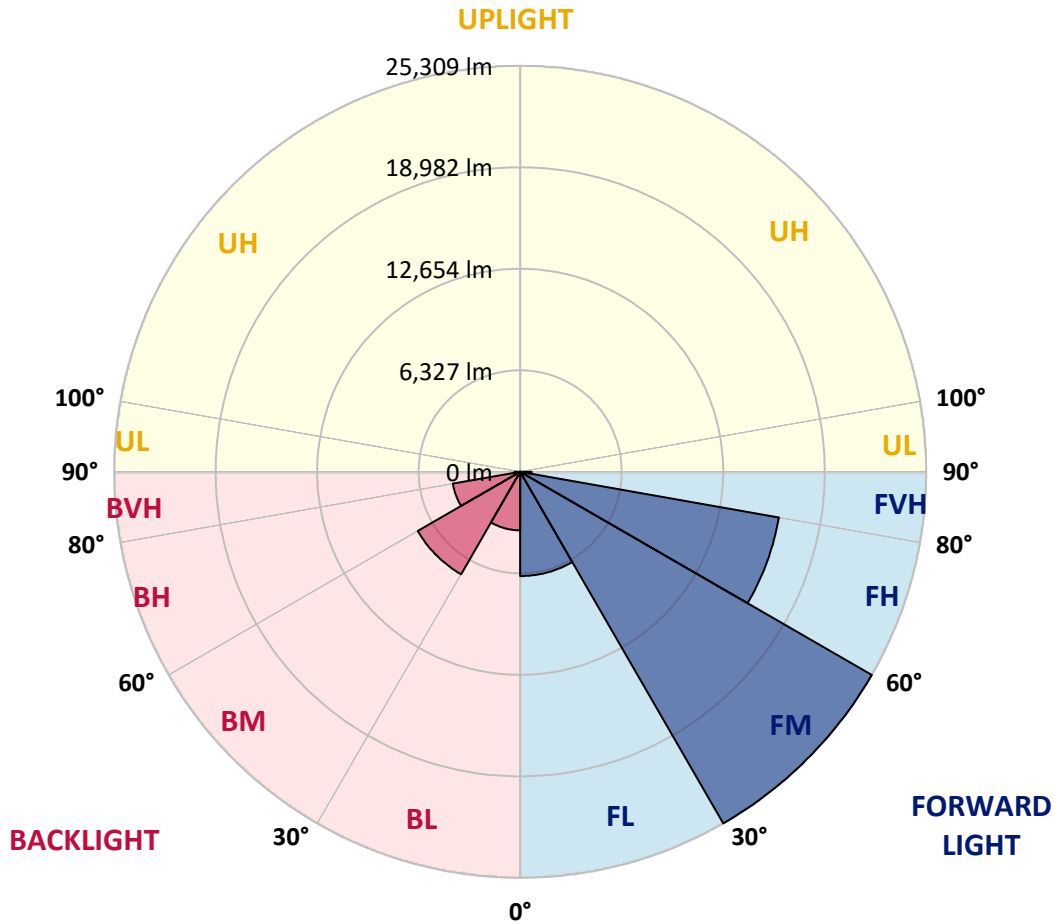
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6497.0	10.1			
FM (30°-60°)	25308.9	39.2			
FH (60°-80°)	16378.4	25.4			G5
FVH (80°-90°)	704.4	1.1			G4/750
BL (0°-30°)	3645.4	5.6	B4/5000		
BM (30°-60°)	7371.1	11.4	B4/8500		
BH (60°-80°)	4258.8	6.6	B4/5000		G4/5000
BVH (80°-90°)	357.1	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°	11373.6	11373.6	11373.6	11373.6	11373.6	11373.6	11373.6	11373.6	11373.6	11373.6	11373.6
2.5°	11996.4	11947.2	11953.9	11919.4	11867.6	11829.1	11728.1	11619.2	11554.2	11548.9	11455.9
5°	12599.2	12615.2	12619.2	12508.9	12400.1	12276.6	12122.5	11912.7	11741.4	11714.9	11534.3
7.5°	13149.0	13147.7	13139.7	13078.6	13028.2	12844.9	12536.8	12207.5	11928.6	11903.4	11609.9
10°	13712.0	13708.1	13628.4	13526.1	13411.9	13243.3	12979.0	12584.6	12133.1	12099.9	11680.3
12.5°	14325.5	14281.7	14231.2	14107.8	13972.3	13680.2	13402.6	12973.7	12502.3	12442.5	11805.2
15°	14831.5	14786.3	14715.9	14632.3	14490.2	14267.1	13972.3	13463.7	12957.8	12899.4	12085.3
17.5°	15332.1	15310.8	15260.4	15171.4	15062.5	14870.0	14599.1	14167.5	13504.9	13433.2	12551.4
20°	15742.4	15692.0	15654.8	15695.9	15705.2	15563.1	15414.4	15051.9	14321.5	14211.3	13123.8
22.5°	15976.1	15965.5	16168.7	16320.1	16381.1	16413.0	16366.5	16074.4	15413.1	15220.5	13920.5
25°	16197.9	16180.6	16456.8	16835.3	17195.2	17378.4	17501.9	17540.4	16933.6	16759.6	15202.0
27.5°	16204.5	16252.3	16653.4	17288.1	17836.5	18395.6	18987.8	19055.6	18523.1	18385.0	16660.0
30°	16240.4	16261.6	16658.7	17387.7	18529.7	19426.0	20197.6	20578.7	20119.2	20055.5	18265.4
32.5°	15784.9	15812.8	16430.3	17561.7	19052.9	20492.4	21516.2	22081.9	21967.7	21886.7	19978.5
35°	15310.8	15334.7	16051.8	17314.7	19442.0	21460.4	22707.3	23818.8	24027.3	23966.2	21889.3
37.5°	14567.2	14646.9	15398.5	17019.9	19509.7	22172.2	23844.0	25549.1	26178.5	25995.2	23910.4
40°	13759.8	13818.3	14693.4	16402.4	19434.0	22639.6	24960.8	27463.9	28226.1	28127.9	25916.9
42.5°	12740.0	12896.7	13773.1	15613.6	19044.9	22930.4	25993.9	29635.0	30742.5	30874.0	27760.0
45°	11880.8	11876.9	12690.9	14471.6	18339.8	22999.5	26944.7	31830.1	33450.1	33203.1	30196.8
47.5°	10870.3	10911.5	11761.3	13334.9	17300.1	22780.4	27685.7	34424.8	36064.8	35930.7	32195.3
50°	8531.8	8828.0	10437.4	12357.6	15893.8	22169.5	28303.1	36951.8	38517.5	38578.5	34011.8
52.5°	7355.3	7469.5	8357.9	11373.6	14645.6	21144.4	28980.4	39794.9	40887.8	40732.4	36074.1
55°	6883.9	6945.0	7371.2	9606.1	13438.5	19557.5	29305.7	42391.0	42736.2	42711.0	37771.2
57.5°	6542.6	6589.1	6891.9	8016.6	12113.2	17520.5	29030.8	44080.1	44616.6	44451.9	39372.6
60°	6050.0	6087.2	6538.6	7223.8	10749.5	15463.6	27340.4	44846.3	45980.3	45919.2	40788.2
62.5°	5679.5	5743.2	5995.5	6638.2	9584.9	13769.1	25326.0	44607.3	46875.3	46929.8	41869.1
65°	5287.8	5344.9	5558.6	6120.4	8529.2	12655.0	23153.5	43409.5	46463.7	46608.4	42044.4
67.5°	4804.4	4848.2	5101.8	5587.9	7295.6	11540.9	20703.5	41291.5	44179.7	44645.8	40299.5
70°	4196.2	4212.1	4522.9	4853.5	6057.9	9861.1	16462.1	37824.3	40874.5	40883.8	37005.0
72.5°	3339.7	3353.0	3435.3	3686.3	4550.8	7804.1	12099.9	31604.3	36856.2	36788.5	32888.4
75°	2270.7	2387.6	2673.1	2912.1	3282.6	5480.3	7525.3	21293.1	31225.9	31757.1	27015.1
77.5°	1794.0	1804.6	1922.8	2141.9	2462.0	4094.0	4217.5	11781.2	23279.7	24542.5	21234.7
80°	1250.9	1269.5	1205.7	1258.9	1717.0	2801.9	2464.6	5127.1	9708.4	10365.7	12749.3
82.5°	596.2	617.5	709.1	658.6	853.8	1191.1	1301.4	2649.2	4193.6	4303.8	4963.7
85°	393.1	393.1	394.4	373.1	498.0	519.2	590.9	1130.1	2047.6	2116.7	2104.7
87.5°	126.2	139.4	135.4	158.0	191.2	172.6	180.6	354.6	702.5	695.8	581.6
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°	11373.6	11373.6	11373.6	11373.6	11373.6	11373.6	11373.6	11373.6	11373.6	11373.6	11373.6
2.5°	11389.5	11335.1	11207.6	11096.0	10985.8	10902.2	10830.5	10734.9	10689.7	10648.5	10734.9
5°	11422.7	11325.8	11097.4	10869.0	10659.2	10505.1	10410.8	10341.8	10279.4	10279.4	10308.6
7.5°	11461.2	11329.8	11003.1	10679.1	10364.4	10189.1	10055.0	9967.3	9916.9	9919.5	9981.9
10°	11486.5	11284.6	10895.5	10458.6	10116.0	9834.5	9703.1	9576.9	9481.3	9424.2	9487.9
12.5°	11515.7	11270.0	10750.8	10258.1	9841.2	9522.5	9248.9	9154.6	9061.7	8990.0	9024.5
15°	11696.3	11325.8	10629.9	10003.2	9519.8	9122.8	8764.2	8591.6	8565.0	8515.9	8527.9
17.5°	11991.1	11475.8	10551.6	9691.1	9133.4	8664.6	8210.5	7987.4	7934.3	7909.1	7922.3
20°	12430.6	11761.3	10575.5	9472.0	8697.8	8173.3	7586.4	7324.8	7148.2	7158.8	7210.6
22.5°	13102.5	12222.1	10705.6	9231.7	8226.4	7538.6	6946.3	6590.4	6412.5	6374.0	6432.4
25°	14172.8	12964.4	10849.1	9001.9	7770.9	6853.4	6197.4	5812.3	5583.9	5569.3	5634.3
27.5°	15544.6	14102.4	11161.1	8802.7	7205.3	6030.1	5378.0	5048.7	4805.7	4776.5	4755.3
30°	16948.2	15366.6	11725.5	8500.0	6545.3	5180.2	4613.2	4355.6	4083.3	3973.1	3997.0
32.5°	18435.4	16544.5	12386.8	8287.5	5807.0	4432.6	3939.9	3694.3	3444.6	3285.3	3248.1
35°	19933.3	17715.7	12943.2	7970.1	5107.2	3839.0	3367.6	3114.0	2896.2	2766.0	2756.7
37.5°	21686.2	18934.7	13389.4	7632.8	4380.8	3374.2	2807.2	2661.1	2556.2	2442.0	2454.0
40°	23441.7	20355.6	13746.6	7075.1	3777.9	2874.9	2388.9	2418.1	2440.7	2345.1	2337.1
42.5°	24899.7	21549.4	13909.9	6352.7	3244.1	2440.7	2204.3	2337.1	2435.4	2373.0	2365.0
45°	26380.3	22554.6	13846.2	5456.4	2800.6	2233.6	2189.7	2325.2	2451.3	2436.7	2430.1
47.5°	27989.8	23871.9	13735.9	4435.2	2483.2	2213.6	2221.6	2285.3	2444.7	2471.2	2460.6
50°	29957.7	25084.3	13083.9	3453.9	2329.2	2245.5	2293.3	2260.1	2395.6	2450.0	2459.3
52.5°	31916.4	26017.8	12211.5	2993.1	2268.1	2276.0	2392.9	2280.0	2339.8	2387.6	2431.4
55°	33427.6	26968.6	10799.9	2715.6	2248.2	2290.7	2420.8	2322.5	2321.2	2321.2	2335.8
57.5°	34974.6	28242.1	9388.3	2536.3	2213.6	2306.6	2387.6	2330.5	2311.9	2285.3	2268.1
60°	36051.5	28713.5	7574.4	2418.1	2177.8	2284.0	2294.6	2286.7	2229.6	2204.3	2184.4
62.5°	37007.6	28969.8	5897.3	2282.7	2128.6	2230.9	2175.1	2157.9	2124.7	2063.6	2074.2
65°	36751.3	28420.0	4493.7	2130.0	2094.1	2167.2	2070.2	2029.1	2031.7	1968.0	1989.2
67.5°	35102.1	25954.1	3226.8	1896.3	1999.8	2041.0	1950.7	1920.2	1875.0	1843.1	1872.4
70°	31770.3	23007.4	2176.5	1573.6	1784.7	1873.7	1813.9	1760.8	1690.4	1669.2	1701.1
72.5°	26740.2	19205.6	1501.9	1265.5	1540.4	1655.9	1633.3	1578.9	1528.4	1580.2	1642.6
75°	21967.7	14208.7	1225.7	1037.1	1184.5	1379.7	1446.1	1462.0	1613.4	2118.0	2169.8
77.5°	15812.8	8808.1	1102.2	843.2	945.5	1103.5	1236.3	1290.7	1970.6	1887.0	1883.0
80°	9219.7	5133.7	840.6	665.3	764.9	808.7	966.7	1515.1	1699.7	1458.0	1422.2
82.5°	4206.8	2265.4	585.6	532.5	531.2	535.1	658.6	1458.0	1304.0	1148.6	1106.2
85°	1547.0	796.7	355.9	308.1	353.2	306.7	431.6	1069.0	755.6	743.6	620.1
87.5°	381.1	163.3	120.8	100.9	82.3	78.3	131.5	351.9	184.6	168.6	162.0
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)