

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: P510776

Luminaire Tested: **CST-CA8-330-730-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA8-330-730-U-T2-HSS
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43743 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

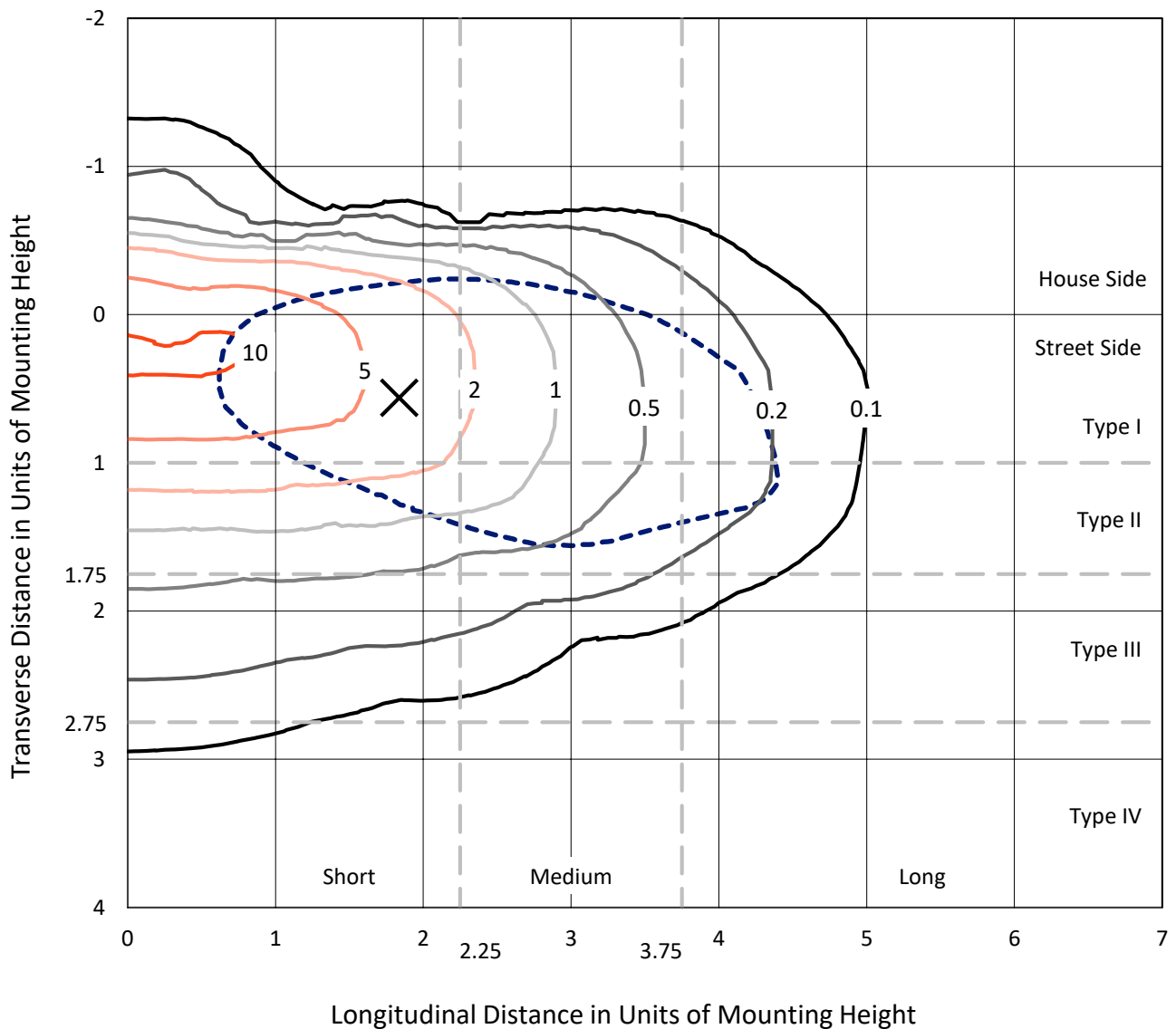
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

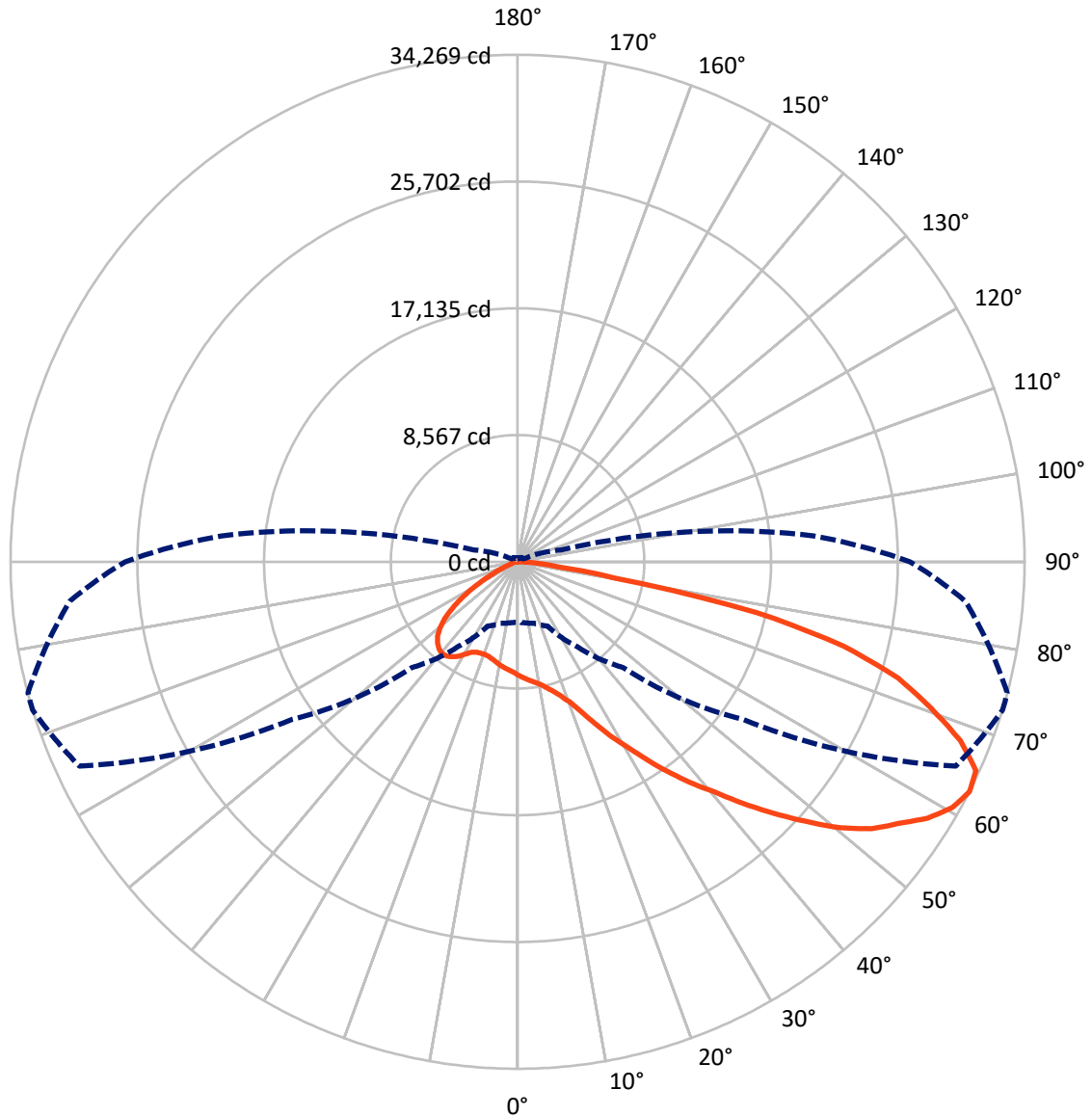
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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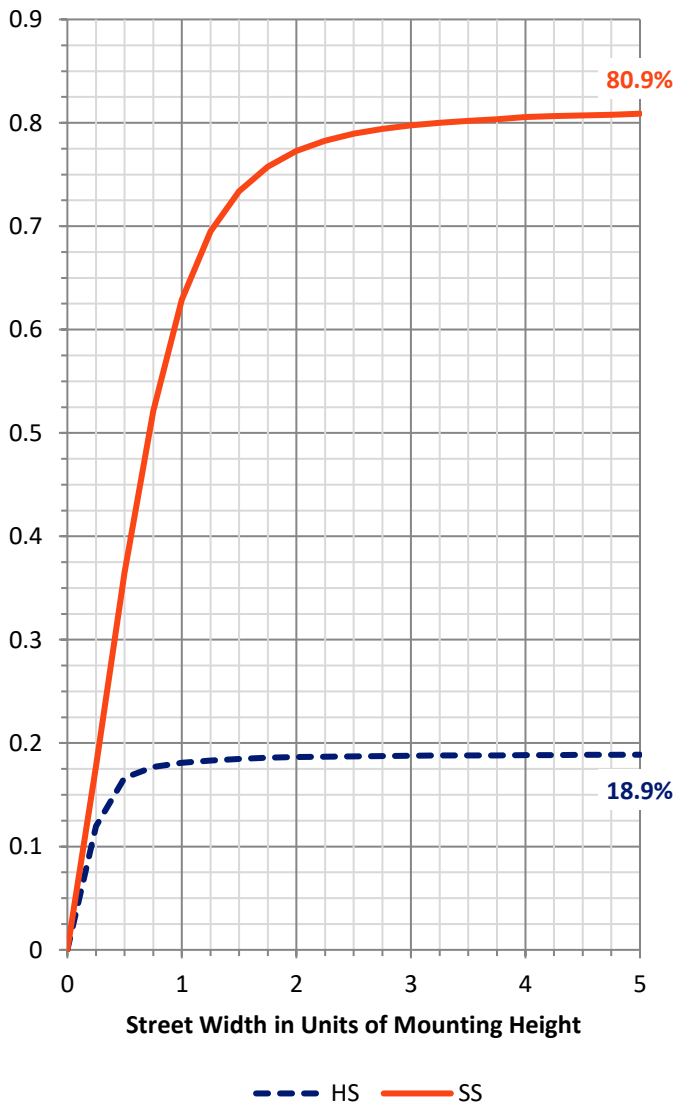
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8367.8	0.0	8367.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	35375.2	0.0	35375.2
	% Fixture	80.9	0.0	80.9
Total	Lumens	43743.0	0.0	43743.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	732.7	1.7
10°-20°	2203.9	5.0
20°-30°	3807.9	8.7
30°-40°	5726.1	13.1
40°-50°	7635.2	17.5
50°-60°	8991.9	20.6
60°-70°	8939.6	20.4
70°-80°	5132.4	11.7
80°-90°	573.3	1.3
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°	43743.0	100.0
0°-180°	43743.0	100.0



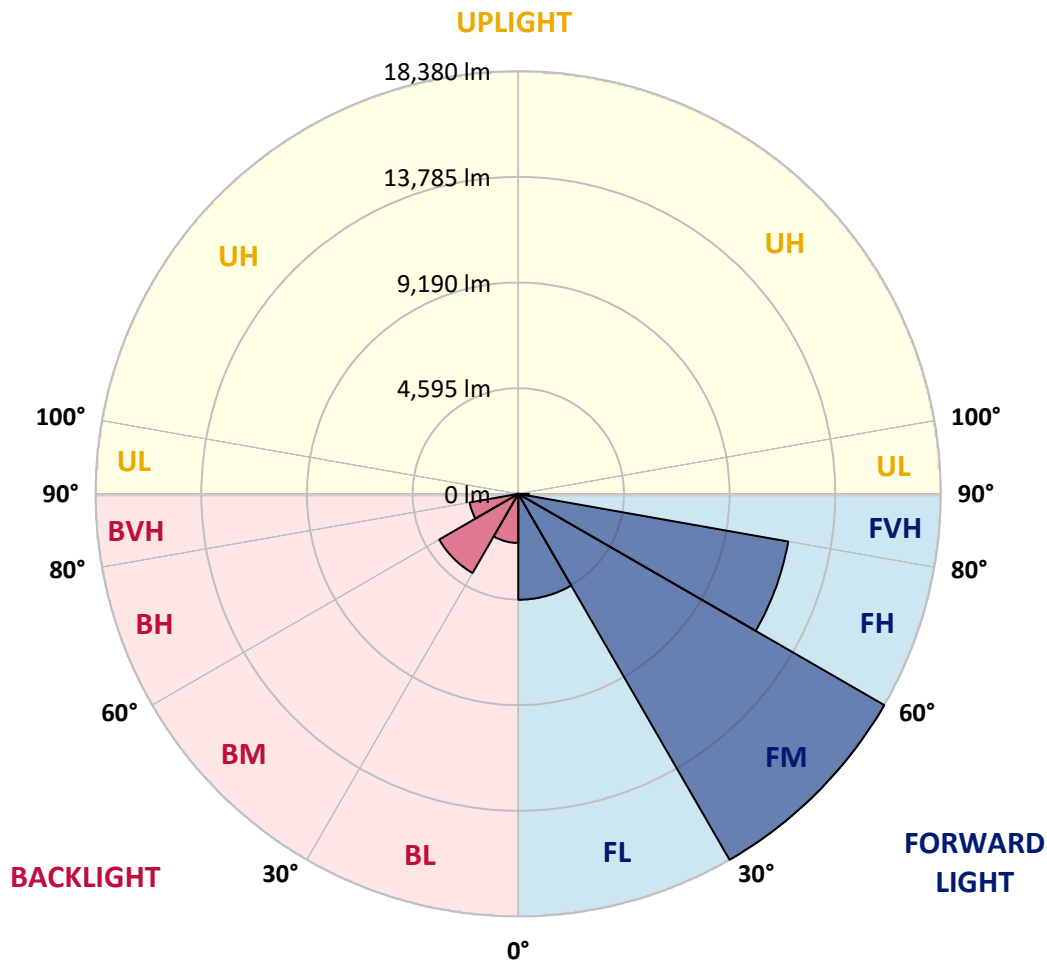
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4606.1	10.5			
FM (30°-60°)	18379.8	42.0			
FH (60°-80°)	11923.7	27.3			G4/12000
FVH (80°-90°)	465.7	1.1			G3/500
BL (0°-30°)	2138.4	4.9	B3/2500		
BM (30°-60°)	3973.4	9.1	B3/5000		
BH (60°-80°)	2148.3	4.9	B3/2500		G3/2500
BVH (80°-90°)	107.7	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	7671.5	7671.5	7671.5	7671.5	7671.5	7671.5	7671.5	7671.5	7671.5	7671.5	7671.5
2.5°	8207.6	8228.3	8203.7	8192.9	8181.1	8104.5	8015.2	7923.9	7850.2	7838.4	7742.2
5°	8784.0	8794.8	8754.6	8708.4	8628.9	8502.2	8342.2	8184.1	8036.8	7997.5	7821.8
7.5°	9226.8	9206.2	9196.4	9157.1	9087.4	8948.0	8705.5	8446.2	8218.4	8163.5	7896.4
10°	9642.2	9633.3	9558.7	9509.6	9398.7	9270.0	9070.7	8741.8	8420.7	8332.3	7961.2
12.5°	10091.9	10072.3	10041.8	9935.8	9845.4	9628.4	9387.9	9088.4	8731.0	8613.2	8072.1
15°	10496.4	10443.4	10426.7	10315.8	10224.4	10058.5	9817.0	9469.4	9087.4	8986.3	8283.2
17.5°	10881.3	10856.8	10819.5	10743.9	10641.8	10514.1	10320.7	9948.5	9553.8	9406.5	8641.6
20°	11208.3	11177.9	11145.5	11166.1	11143.5	11062.0	10940.2	10623.1	10141.0	9998.6	9077.6
22.5°	11436.1	11435.1	11564.7	11640.3	11683.5	11680.6	11651.1	11471.5	10986.4	10842.1	9729.6
25°	11625.6	11640.3	11804.3	12092.0	12349.3	12372.8	12581.0	12495.6	12083.2	11932.9	10710.5
27.5°	11681.6	11711.0	12008.5	12461.2	12852.0	13227.1	13532.4	13688.6	13306.6	13126.9	11765.0
30°	11721.8	11733.6	12025.2	12567.2	13391.1	13985.1	14531.0	14795.2	14466.2	14334.6	12940.4
32.5°	11438.1	11442.0	11888.8	12709.6	13786.8	14816.8	15462.8	15960.7	15874.3	15700.5	14225.7
35°	11047.3	11119.9	11632.5	12572.2	14112.7	15580.7	16460.4	17202.8	17375.6	17250.9	15510.0
37.5°	10564.2	10621.1	11170.0	12367.9	14184.4	16106.0	17236.1	18465.5	18917.1	18896.5	17060.4
40°	9970.1	10039.9	10696.7	11928.0	14149.1	16487.9	18146.4	19863.7	20437.1	20372.3	18598.0
42.5°	9268.1	9370.2	10007.4	11362.5	13890.8	16721.6	18891.6	21287.4	22319.4	22277.2	19958.9
45°	8573.9	8628.9	9210.2	10575.0	13415.6	16797.2	19592.7	23249.3	24249.8	24202.7	21598.7
47.5°	7858.1	7906.2	8513.0	9745.3	12590.8	16645.0	20147.5	24934.2	26216.5	26169.4	23227.6
50°	6192.8	6374.4	7618.5	9015.7	11651.1	16214.0	20670.8	27033.5	28274.6	28074.3	24654.3
52.5°	5298.3	5364.1	6009.2	8280.3	10713.4	15478.6	21020.4	28978.6	29967.4	29678.7	26113.4
55°	4952.7	4996.9	5313.0	6924.3	9832.7	14366.1	21431.8	30928.6	31236.9	31163.3	27303.5
57.5°	4690.5	4739.6	4965.4	5783.3	8904.8	12806.8	21303.1	32300.3	32686.2	32450.6	28567.2
60°	4319.3	4379.2	4678.7	5192.2	7850.2	11224.0	20171.0	32862.0	33739.8	33474.7	29528.5
62.5°	4085.7	4124.9	4296.8	4794.6	6976.3	10110.5	18559.7	32681.3	34269.0	34259.2	30362.1
65°	3768.5	3826.4	4010.0	4413.6	6198.7	9247.5	17039.8	31788.8	34041.2	34050.1	30533.9
67.5°	3436.6	3460.2	3652.6	3976.7	5282.6	8457.0	15073.0	30261.9	32267.0	32469.2	29344.8
70°	3022.3	3010.5	3218.6	3455.3	4317.4	7180.6	12132.3	27546.0	29645.3	29728.8	26940.2
72.5°	2378.1	2388.9	2446.9	2610.9	3277.6	5650.8	8803.6	23272.8	26904.8	27053.1	23866.9
75°	1598.5	1616.2	1886.2	2046.3	2357.5	4061.1	5535.9	15709.3	22744.6	23162.8	19533.8
77.5°	1219.5	1230.3	1308.9	1483.6	1705.5	2894.6	3000.7	8560.1	16558.6	17551.3	15281.2
80°	864.1	868.0	790.4	703.0	908.3	1963.8	1772.3	3645.8	6598.3	7797.2	8975.5
82.5°	386.9	381.0	448.7	373.1	523.3	760.0	836.6	1769.4	2740.5	2945.7	3206.9
85°	179.7	201.3	230.7	193.4	311.3	293.6	326.0	754.1	1284.3	1417.9	1410.0
87.5°	44.2	48.1	60.9	77.6	112.9	100.2	98.2	221.9	286.7	285.7	438.9
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°	7671.5	7671.5	7671.5	7671.5	7671.5	7671.5	7671.5	7671.5	7671.5	7671.5	7671.5
2.5°	7676.4	7625.4	7504.6	7387.8	7276.8	7203.2	7120.7	7034.3	6982.2	6957.7	7010.7
5°	7714.7	7617.5	7386.8	7155.1	6958.7	6790.8	6672.9	6572.8	6518.8	6523.7	6526.6
7.5°	7747.1	7610.6	7287.6	6960.6	6654.3	6446.1	6292.0	6184.0	6122.1	6075.0	6110.3
10°	7775.6	7582.2	7171.7	6735.8	6402.9	6094.6	5885.5	5754.9	5641.0	5577.1	5627.2
12.5°	7806.0	7571.4	7042.1	6534.5	6103.4	5758.8	5472.1	5342.5	5230.5	5182.4	5212.9
15°	7938.6	7612.6	6921.4	6297.9	5807.9	5362.1	5052.8	4893.8	4805.4	4747.5	4760.2
17.5°	8166.4	7721.6	6843.8	6050.4	5478.0	5006.7	4606.1	4420.5	4274.2	4232.9	4222.1
20°	8490.4	7928.8	6843.8	5841.3	5103.9	4611.9	4150.5	3837.2	3609.4	3524.0	3589.8
22.5°	9034.4	8281.3	6911.5	5651.8	4781.8	4202.5	3652.6	3174.5	2867.1	2742.4	2815.1
25°	9795.4	8826.2	7021.5	5485.8	4488.2	3731.2	3021.3	2471.4	2132.7	1984.4	1982.4
27.5°	10789.0	9659.9	7243.4	5350.3	4136.7	3121.4	2362.4	1833.2	1515.1	1425.7	1438.5
30°	11890.7	10563.2	7662.7	5154.0	3709.6	2439.0	1720.3	1347.2	1123.3	1005.5	1007.4
32.5°	12953.1	11498.9	8160.5	5026.3	3154.8	1839.1	1226.4	961.3	821.8	752.1	762.9
35°	14092.1	12306.1	8530.7	4812.3	2503.8	1329.5	867.0	720.7	662.8	626.4	628.4
37.5°	15322.4	13193.7	8835.1	4525.5	1893.1	913.2	640.2	617.6	593.1	546.9	543.0
40°	16607.7	14221.7	9016.7	4062.1	1315.7	632.3	544.0	569.5	555.8	495.9	490.9
42.5°	17697.6	15015.1	9061.9	3448.4	851.3	512.5	492.9	532.2	535.1	474.3	466.4
45°	18744.3	15722.1	8973.5	2640.3	590.1	482.1	461.5	515.5	519.4	464.4	451.7
47.5°	19915.7	16689.2	8813.5	1761.5	488.0	455.6	450.7	488.0	501.7	456.6	440.9
50°	21338.5	17475.7	8339.2	1082.0	460.5	438.9	438.9	461.5	480.1	440.9	433.0
52.5°	22797.6	18161.1	7637.2	742.3	443.8	421.2	434.0	443.8	450.7	415.3	422.2
55°	23843.3	18768.9	6590.5	597.0	434.0	409.4	439.9	420.2	410.4	380.0	373.1
57.5°	25003.9	19491.5	5520.2	529.2	421.2	416.3	420.2	382.9	355.4	324.0	317.2
60°	25814.0	19880.4	4210.4	497.8	406.5	409.4	387.8	337.8	287.7	265.1	260.2
62.5°	26520.9	20102.3	3086.1	457.6	392.8	391.8	351.5	288.7	236.6	212.1	208.2
65°	26413.9	19755.7	2000.1	425.2	382.0	369.2	315.2	247.4	197.4	178.7	176.7
67.5°	25236.6	18222.0	1259.8	391.8	363.3	340.7	282.8	220.9	181.7	160.0	158.1
70°	22765.2	16104.0	770.8	348.6	323.0	301.4	250.4	207.2	171.8	146.3	141.4
72.5°	19349.2	13792.6	545.0	307.3	281.8	256.3	212.1	197.4	164.0	131.6	127.6
75°	15896.8	10159.6	456.6	268.1	240.6	206.2	180.7	183.6	154.2	119.8	116.8
77.5°	11194.6	6334.2	425.2	219.0	189.5	164.0	156.1	167.9	141.4	110.0	107.0
80°	6533.5	3557.4	351.5	172.8	142.4	126.7	130.6	142.4	123.7	99.2	95.2
82.5°	2637.4	1408.0	247.4	134.5	104.1	101.1	107.0	115.9	102.1	83.5	81.5
85°	941.6	439.9	140.4	88.4	66.8	69.7	68.7	82.5	73.6	60.9	59.9
87.5°	247.4	87.4	62.8	35.3	28.5	28.5	26.5	38.3	35.3	27.5	30.4
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)