

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: P510676

Luminaire Tested: **CST-CA6-230-750-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510676
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-CA6-230-750-U-T2-HSS
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (6) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31934 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

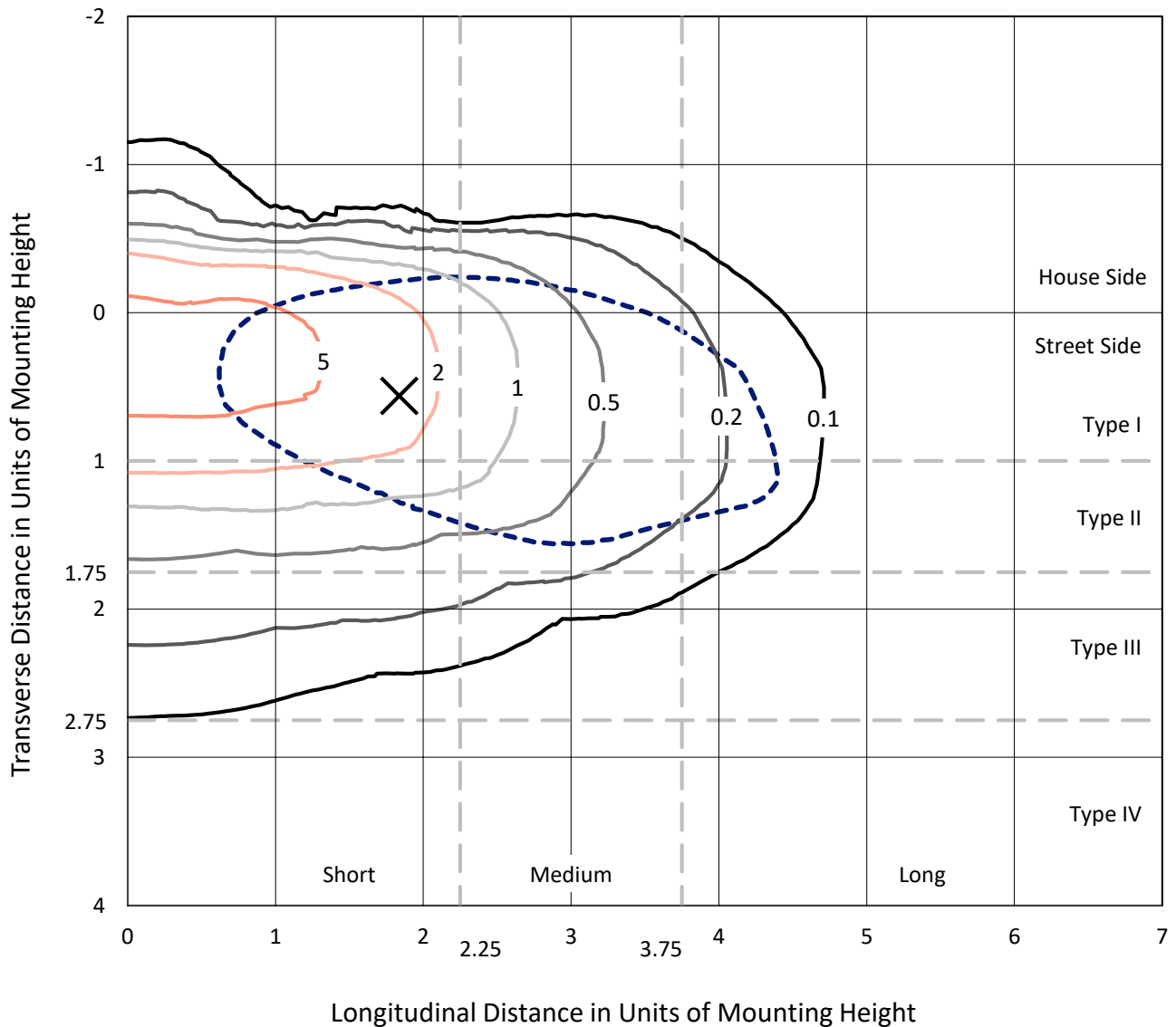
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

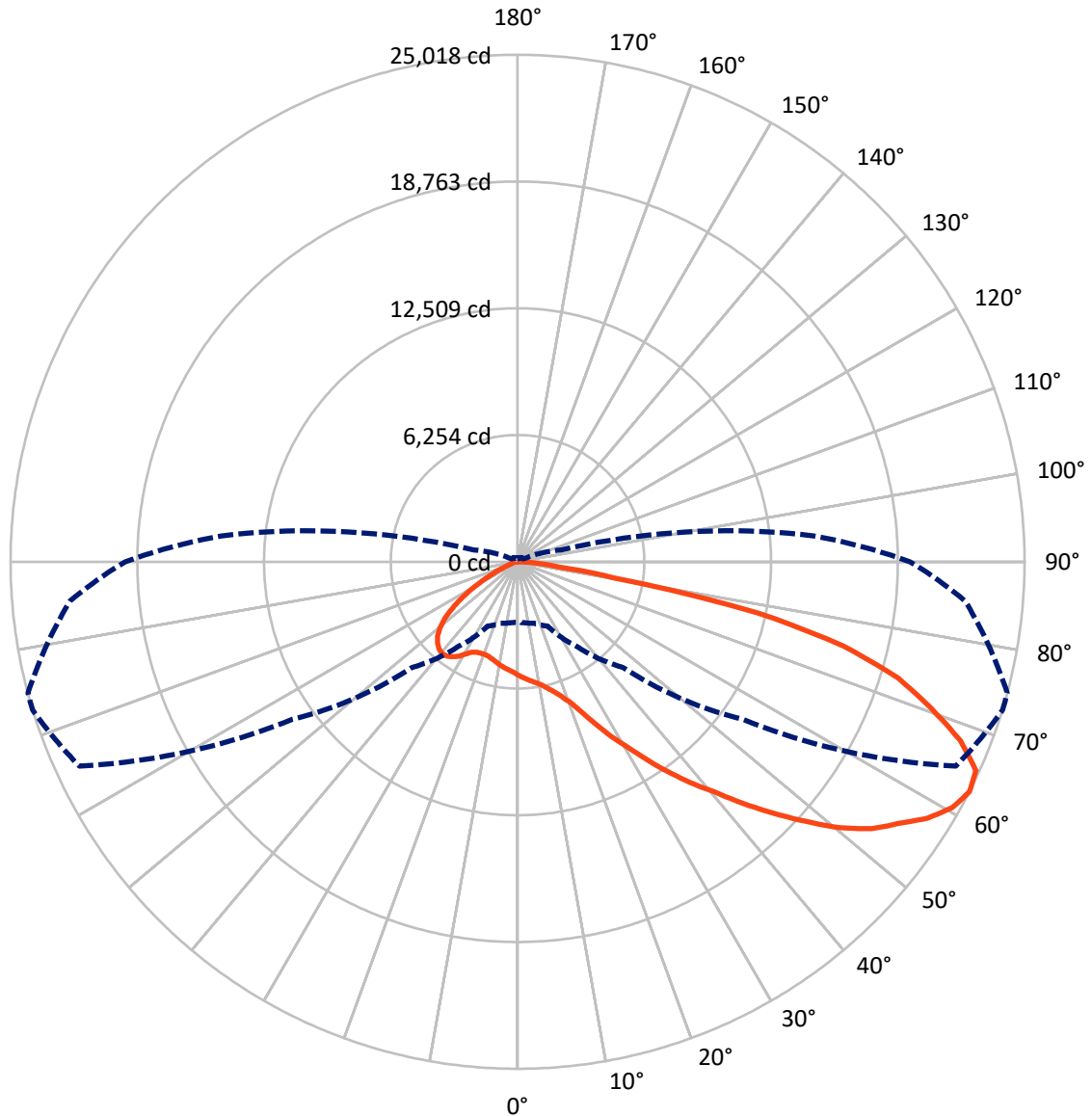
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 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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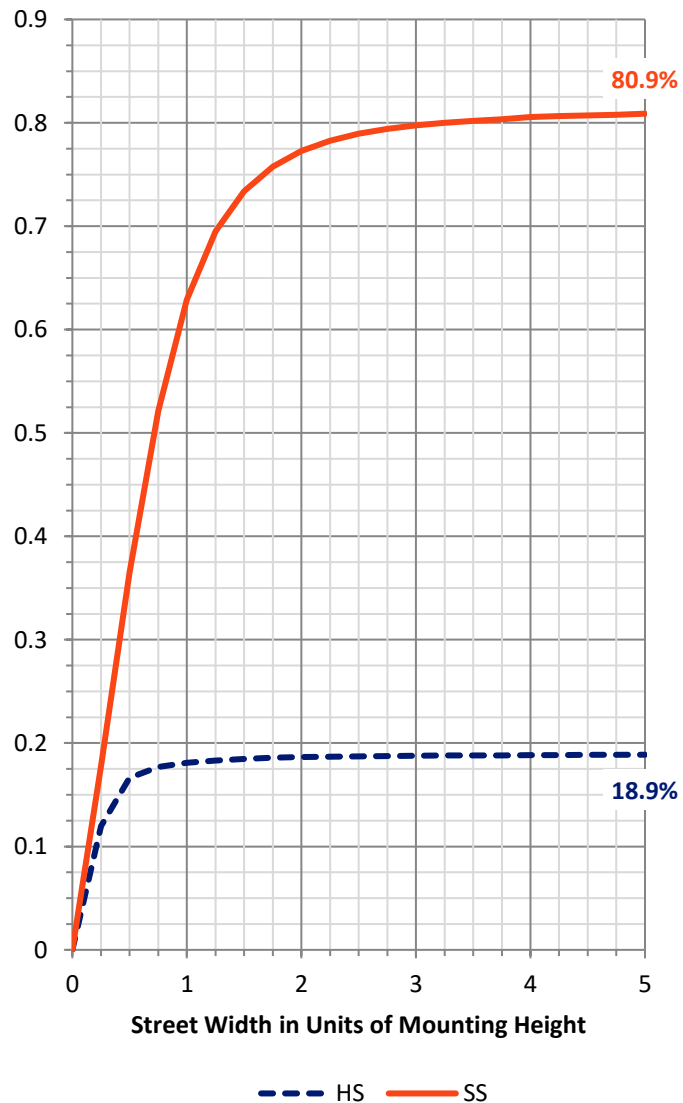
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6108.8	0.0	6108.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	25825.2	0.0	25825.2
	% Fixture	80.9	0.0	80.9
Total	Lumens	31934.0	0.0	31934.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.9	1.7
10°-20°	1608.9	5.0
20°-30°	2779.9	8.7
30°-40°	4180.3	13.1
40°-50°	5574.0	17.5
50°-60°	6564.4	20.6
60°-70°	6526.2	20.4
70°-80°	3746.9	11.7
80°-90°	418.6	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°	31934.0	100.0
0°-180°	31934.0	100.0

Coefficient of Utilization

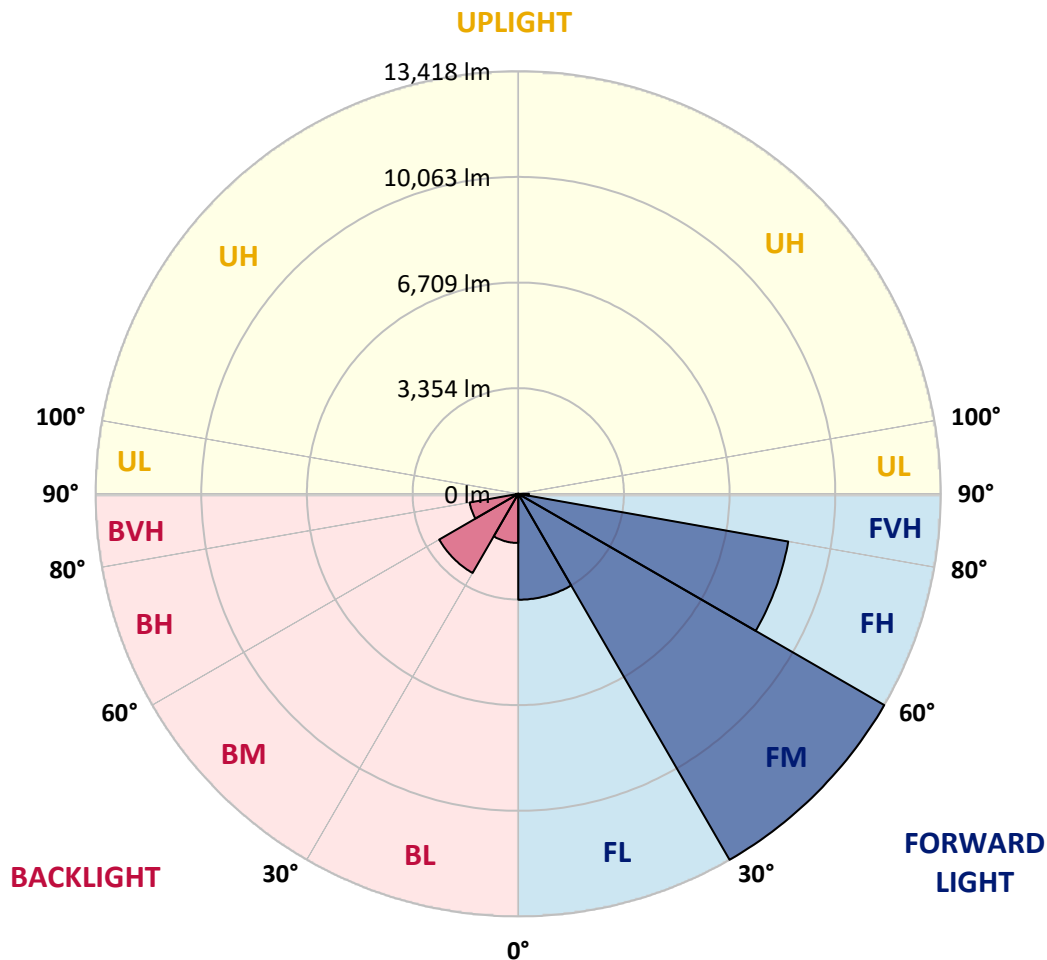


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3362.6	10.5			
FM (30°-60°)	13417.9	42.0			
FH (60°-80°)	8704.7	27.3			G4/12000
FVH (80°-90°)	339.9	1.1			G3/500
BL (0°-30°)	1561.1	4.9	B3/2500		
BM (30°-60°)	2900.8	9.1	B3/5000		
BH (60°-80°)	1568.4	4.9	B3/2500		G3/2500
BVH (80°-90°)	78.6	0.2			G1/100
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°	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5
2.5°	5991.9	6006.9	5989.0	5981.1	5972.5	5916.6	5851.4	5784.7	5731.0	5722.4	5652.1
5°	6412.7	6420.5	6391.1	6357.5	6299.4	6206.9	6090.1	5974.7	5867.2	5838.5	5710.2
7.5°	6735.9	6720.9	6713.7	6685.0	6634.1	6532.4	6355.3	6166.1	5999.8	5959.6	5764.6
10°	7039.1	7032.7	6978.2	6942.4	6861.4	6767.5	6622.0	6381.8	6147.4	6082.9	5812.0
12.5°	7367.5	7353.1	7330.9	7253.5	7187.5	7029.1	6853.5	6634.9	6373.9	6287.9	5893.0
15°	7662.8	7624.1	7611.9	7530.9	7464.2	7343.1	7166.7	6913.0	6634.1	6560.3	6047.1
17.5°	7943.8	7925.9	7898.6	7843.4	7768.9	7675.7	7534.5	7262.8	6974.6	6867.1	6308.7
20°	8182.5	8160.3	8136.6	8151.7	8135.2	8075.7	7986.8	7755.3	7403.3	7299.4	6627.0
22.5°	8348.8	8348.1	8442.7	8497.9	8529.4	8527.3	8505.8	8374.6	8020.5	7915.1	7102.9
25°	8487.1	8497.9	8617.6	8827.6	9015.4	9032.6	9184.6	9122.2	8821.2	8711.5	7819.0
27.5°	8528.0	8549.5	8766.7	9097.1	9382.4	9656.3	9879.2	9993.2	9714.3	9583.1	8588.9
30°	8557.4	8566.0	8778.9	9174.5	9776.0	10209.6	10608.2	10801.0	10560.9	10464.8	9446.9
32.5°	8350.2	8353.1	8679.2	9278.5	10064.8	10816.8	11288.4	11651.9	11588.8	11461.9	10385.3
35°	8064.9	8118.0	8492.1	9178.1	10302.8	11374.5	12016.7	12558.6	12684.8	12593.8	11322.9
37.5°	7712.2	7753.8	8154.5	9029.0	10355.1	11758.0	12583.0	13480.5	13810.2	13795.2	12454.7
40°	7278.6	7329.5	7809.0	8707.9	10329.3	12036.8	13247.5	14501.2	14919.8	14872.5	13577.2
42.5°	6766.0	6840.6	7305.8	8295.0	10140.8	12207.4	13791.6	15540.6	16294.0	16263.2	14570.8
45°	6259.3	6299.4	6723.7	7720.1	9793.9	12262.6	14303.4	16972.8	17703.2	17668.8	15767.8
47.5°	5736.7	5771.8	6214.8	7114.4	9191.8	12151.5	14708.4	18202.9	19139.0	19104.6	16957.0
50°	4521.0	4653.6	5561.8	6581.8	8505.8	11836.8	15090.4	19735.4	20641.5	20495.3	17998.6
52.5°	3867.9	3916.0	4386.9	6044.9	7821.2	11299.9	15345.6	21155.4	21877.3	21666.5	19063.8
55°	3615.6	3647.9	3878.7	5055.0	7178.2	10487.8	15646.0	22579.0	22804.1	22750.4	19932.5
57.5°	3424.2	3460.1	3624.9	4222.1	6500.8	9349.5	15552.1	23580.4	23862.1	23690.1	20855.1
60°	3153.3	3197.0	3415.6	3790.5	5731.0	8193.9	14725.6	23990.5	24631.3	24437.7	21556.9
62.5°	2982.7	3011.4	3136.8	3500.2	5093.0	7381.1	13549.3	23858.6	25017.7	25010.5	22165.4
65°	2751.1	2793.4	2927.5	3222.1	4525.3	6751.0	12439.7	23207.0	24851.4	24857.8	22290.9
67.5°	2508.9	2526.1	2666.6	2903.1	3856.5	6174.0	11003.9	22092.3	23556.1	23703.7	21422.8
70°	2206.4	2197.8	2349.7	2522.5	3151.8	5242.1	8857.0	20109.6	21642.2	21703.1	19667.3
72.5°	1736.1	1744.0	1786.3	1906.0	2392.7	4125.3	6427.0	16990.0	19641.5	19749.8	17423.7
75°	1167.0	1179.9	1377.0	1493.8	1721.1	2964.8	4041.4	11468.4	16604.4	16909.7	14260.4
77.5°	890.3	898.2	955.5	1083.1	1245.1	2113.2	2190.6	6249.2	12088.4	12813.1	11155.8
80°	630.8	633.7	577.0	513.2	663.1	1433.6	1293.9	2661.5	4817.0	5692.2	6552.4
82.5°	282.4	278.1	327.6	272.4	382.1	554.8	610.7	1291.7	2000.6	2150.5	2341.1
85°	131.2	146.9	168.5	141.2	227.2	214.3	238.0	550.5	937.6	1035.1	1029.4
87.5°	32.3	35.1	44.4	56.6	82.4	73.1	71.7	162.0	209.3	208.6	320.4
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°	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5	5600.5
2.5°	5604.1	5566.8	5478.6	5393.3	5312.3	5258.6	5198.4	5135.3	5097.3	5079.4	5118.1
5°	5632.0	5561.1	5392.6	5223.5	5080.1	4957.5	4871.5	4798.4	4759.0	4762.5	4764.7
7.5°	5655.7	5556.1	5320.2	5081.5	4857.9	4705.9	4593.4	4514.5	4469.4	4435.0	4460.8
10°	5676.5	5535.3	5235.6	4917.4	4674.4	4449.3	4296.6	4201.3	4118.1	4071.5	4108.1
12.5°	5698.7	5527.4	5141.0	4770.4	4455.7	4204.1	3994.8	3900.2	3818.5	3783.4	3805.6
15°	5795.5	5557.5	5052.8	4597.7	4240.0	3914.5	3688.7	3572.6	3508.1	3465.8	3475.1
17.5°	5961.8	5637.1	4996.2	4417.0	3999.1	3655.1	3362.6	3227.1	3120.3	3090.2	3082.3
20°	6198.3	5788.3	4996.2	4264.3	3726.0	3366.9	3030.0	2801.3	2635.0	2572.7	2620.7
22.5°	6595.4	6045.6	5045.7	4126.0	3490.9	3068.0	2666.6	2317.5	2093.1	2002.1	2055.1
25°	7151.0	6443.5	5126.0	4004.9	3276.6	2723.9	2205.6	1804.2	1556.9	1448.7	1447.3
27.5°	7876.4	7052.1	5288.0	3905.9	3020.0	2278.8	1724.7	1338.3	1106.0	1040.8	1050.1
30°	8680.7	7711.5	5594.0	3762.6	2708.1	1780.6	1255.9	983.5	820.0	734.0	735.5
32.5°	9456.3	8394.7	5957.5	3669.4	2303.1	1342.6	895.3	701.8	600.0	549.1	557.0
35°	10287.8	8983.9	6227.7	3513.1	1827.9	970.6	633.0	526.1	483.9	457.3	458.8
37.5°	11185.9	9631.9	6449.9	3303.8	1382.0	666.6	467.4	450.9	433.0	399.3	396.4
40°	12124.3	10382.4	6582.5	2965.5	960.5	461.6	397.1	415.8	405.7	362.0	358.4
42.5°	12919.9	10961.6	6615.5	2517.5	621.5	374.2	359.8	388.5	390.7	346.2	340.5
45°	13684.0	11477.7	6551.0	1927.5	430.8	352.0	336.9	376.3	379.2	339.1	329.7
47.5°	14539.2	12183.7	6434.2	1286.0	356.3	332.6	329.0	356.3	366.3	333.3	321.9
50°	15577.9	12757.9	6087.9	789.9	336.2	320.4	320.4	336.9	350.5	321.9	316.1
52.5°	16643.1	13258.3	5575.4	541.9	324.0	307.5	316.8	324.0	329.0	303.2	308.2
55°	17406.5	13702.0	4811.3	435.8	316.8	298.9	321.1	306.8	299.6	277.4	272.4
57.5°	18253.8	14229.5	4029.9	386.4	307.5	303.9	306.8	279.6	259.5	236.5	231.5
60°	18845.1	14513.4	3073.7	363.4	296.8	298.9	283.1	246.6	210.0	193.5	190.0
62.5°	19361.2	14675.4	2253.0	334.0	286.7	286.0	256.6	210.7	172.8	154.8	152.0
65°	19283.1	14422.4	1460.2	310.4	278.8	269.5	230.1	180.6	144.1	130.5	129.0
67.5°	18423.6	13302.7	919.7	286.0	265.2	248.7	206.4	161.3	132.6	116.8	115.4
70°	16619.4	11756.5	562.7	254.5	235.8	220.1	182.8	151.2	125.4	106.8	103.2
72.5°	14125.6	10069.1	397.8	224.4	205.7	187.1	154.8	144.1	119.7	96.1	93.2
75°	11605.3	7416.9	333.3	195.7	175.6	150.5	131.9	134.0	112.5	87.5	85.3
77.5°	8172.4	4624.2	310.4	159.9	138.3	119.7	114.0	122.6	103.2	80.3	78.1
80°	4769.7	2597.0	256.6	126.2	103.9	92.5	95.3	103.9	90.3	72.4	69.5
82.5°	1925.4	1027.9	180.6	98.2	76.0	73.8	78.1	84.6	74.5	60.9	59.5
85°	687.4	321.1	102.5	64.5	48.7	50.9	50.2	60.2	53.8	44.4	43.7
87.5°	180.6	63.8	45.9	25.8	20.8	20.8	19.4	28.0	25.8	20.1	22.2
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)