

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: P510628

Luminaire Tested: **CST-CA10-760-760-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-760-760-U-T3-HSS
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 99031 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

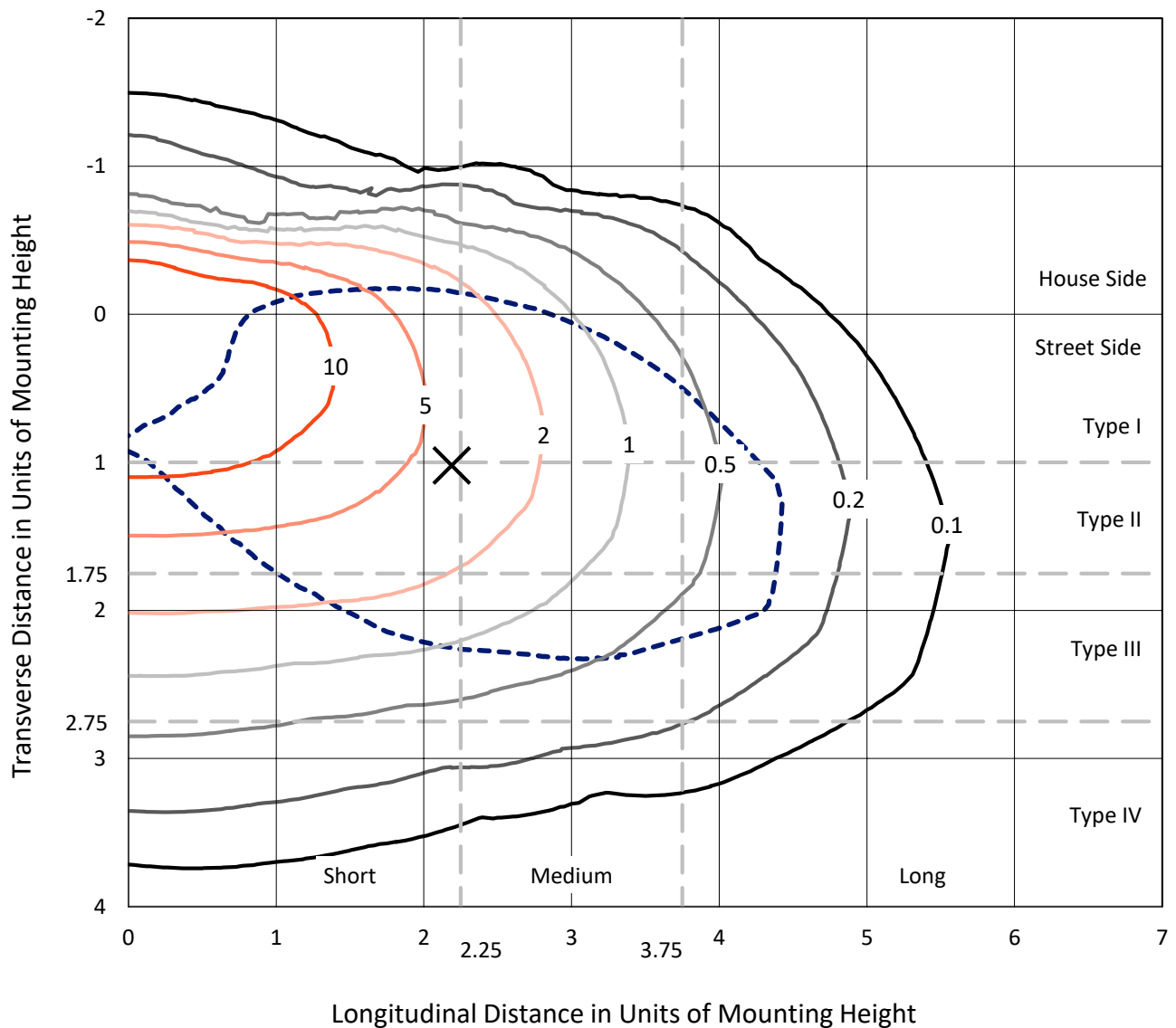
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510628
 CATALOG NUMBER: CST-CA10-760-760-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

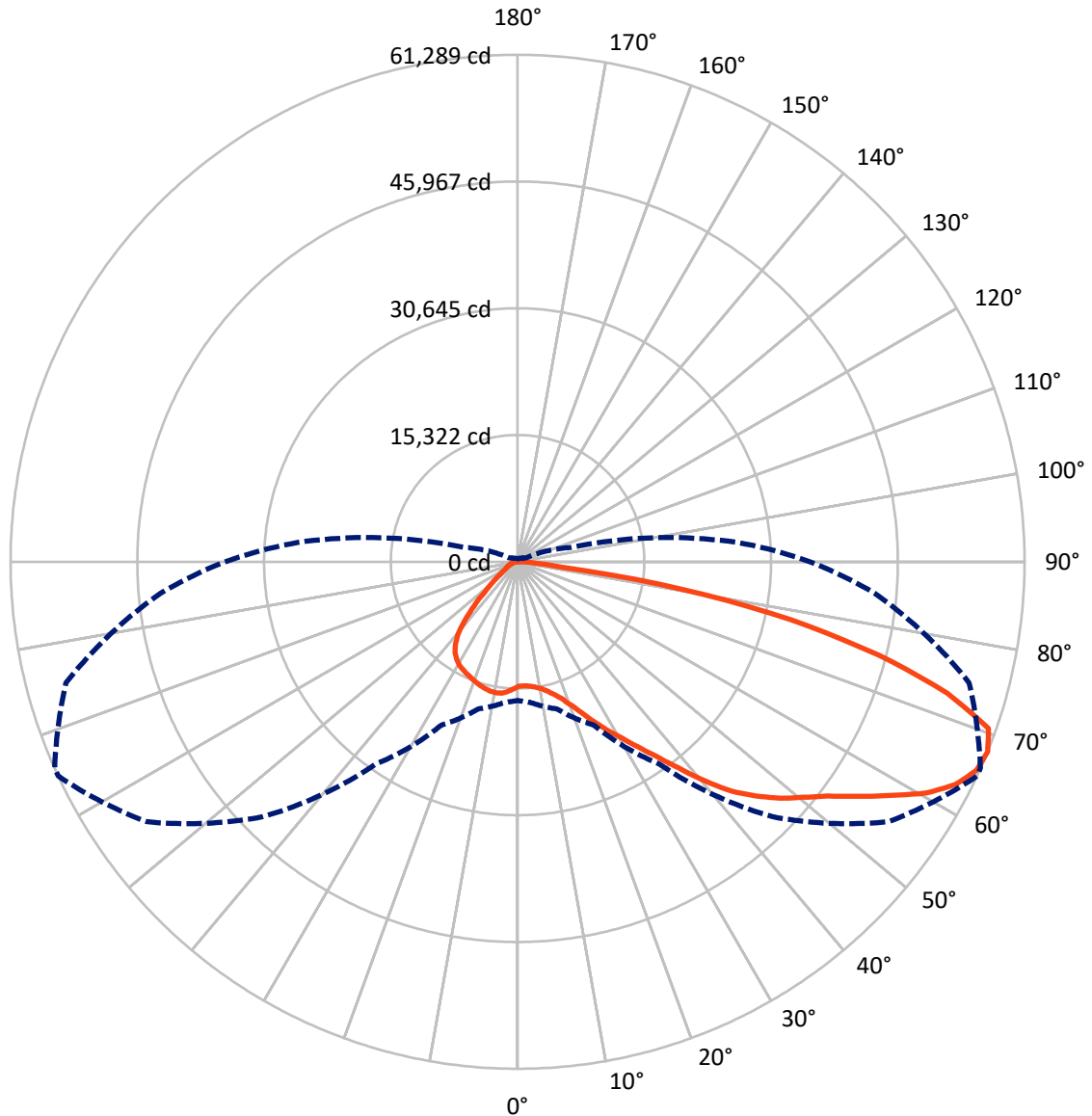
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 19.7 fc
 Type III - Short - N/A

REPORT NUMBER: P510628
CATALOG NUMBER: CST-CA10-760-760-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: CST-CA10-760-760-U-T3-HSS

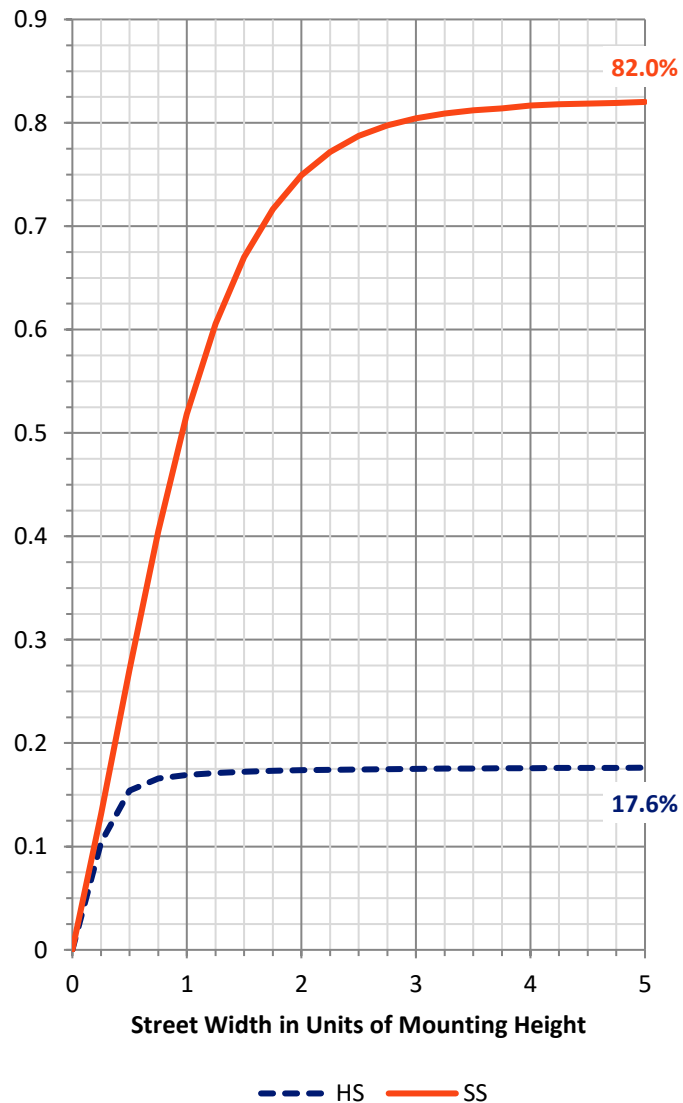
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17699.3	0.0	17699.3
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	81331.7	0.0	81331.7
	% Fixture	82.1	0.0	82.1
Total	Lumens	99031.0	0.0	99031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1488.8	1.5
10°-20°	4596.4	4.6
20°-30°	7973.9	8.1
30°-40°	12028.5	12.1
40°-50°	16678.3	16.8
50°-60°	20587.2	20.8
60°-70°	21935.3	22.1
70°-80°	12551.7	12.7
80°-90°	1190.9	1.2
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°	99031.0	100.0
0°-180°	99031.0	100.0

Coefficient of Utilization

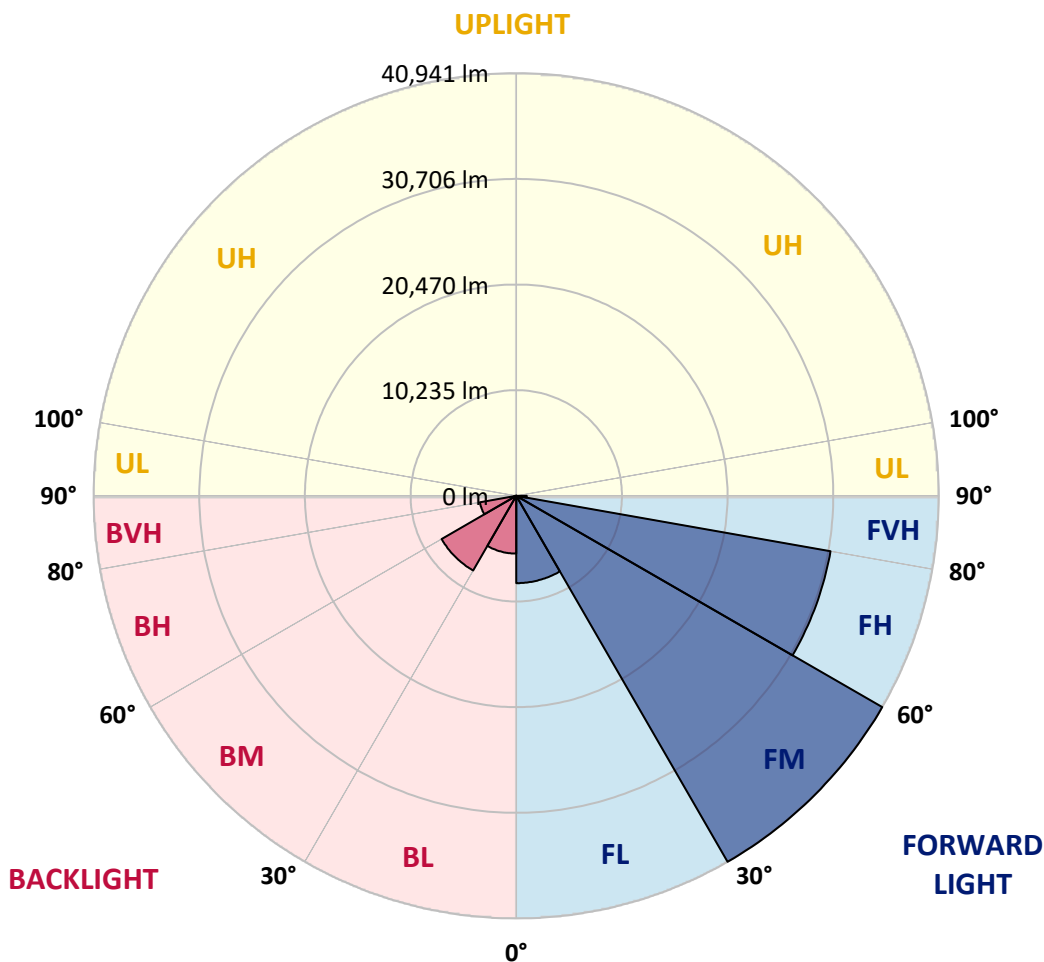


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 CATALOG NUMBER: CST-CA10-760-760-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8458.6	8.5			
FM (30°-60°)	40940.8	41.3			
FH (60°-80°)	30914.8	31.2			G5
FVH (80°-90°)	1017.6	1.0			G5
BL (0°-30°)	5600.5	5.7	B5		
BM (30°-60°)	8353.1	8.4	B4/8500		
BH (60°-80°)	3572.3	3.6	B4/5000		G4/5000
BVH (80°-90°)	173.3	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type III Short





REPORT NUMBER: P510628

CATALOG NUMBER: CST-CA10-760-760-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	15048.4	15048.4	15048.4	15048.4	15048.4	15048.4	15048.4	15048.4	15048.4	15048.4	15048.4
2.5°	14903.1	14883.5	14866.2	14896.6	14913.9	14942.1	14983.3	15011.5	15020.2	15046.2	15078.8
5°	15141.7	15139.5	15115.7	15102.6	15065.8	15052.7	15061.4	15096.1	15098.3	15130.8	15232.8
7.5°	15610.3	15605.9	15547.3	15521.3	15443.2	15356.4	15291.4	15297.9	15295.7	15328.2	15464.9
10°	16317.4	16282.7	16200.3	16120.0	15968.2	15805.5	15686.2	15577.7	15577.7	15625.4	15777.3
12.5°	17115.7	17163.5	17050.7	16929.2	16675.4	16382.5	16174.3	16052.8	16039.8	16063.6	16172.1
15°	18107.1	18107.1	18031.2	17857.6	17634.2	17226.4	16796.9	16642.8	16621.1	16671.0	16664.5
17.5°	19224.3	19256.8	19113.7	19026.9	18684.1	18232.9	17694.9	17428.1	17428.1	17395.6	17245.9
20°	20649.5	20471.6	20486.8	20343.7	20092.0	19436.9	18890.2	18501.9	18497.6	18432.5	18011.7
22.5°	22198.4	22100.8	22016.2	21890.4	21543.3	20957.6	20198.3	19814.4	19805.7	19645.1	19020.4
25°	23725.6	23799.3	23706.1	23476.1	23222.3	22584.5	21747.2	21369.7	21367.6	21100.7	20215.7
27.5°	25296.2	25376.4	25346.1	25137.8	24799.4	24300.5	23508.7	23016.2	22985.9	22812.3	21699.5
30°	27031.6	26960.0	27053.3	26964.3	26795.1	25981.7	25265.8	24693.1	24766.9	24714.8	23385.0
32.5°	28294.1	28339.7	28645.6	28654.2	28476.3	27873.3	26999.1	26647.6	26764.8	26695.4	25456.7
35°	29435.2	29508.9	29903.7	30292.0	30422.2	29762.7	28873.3	28851.6	29003.5	29426.5	28311.5
37.5°	30415.7	30467.8	31020.9	31526.4	31947.2	31496.0	30849.6	31619.7	31843.1	32708.6	31257.4
40°	31003.6	31070.8	31786.7	32498.2	33248.8	33088.3	33027.5	34849.7	35060.2	35821.6	33407.2
42.5°	30671.7	30804.0	31997.1	33298.7	34402.9	34723.9	35554.8	37897.6	38138.4	38203.5	35520.1
45°	30079.5	30244.3	31578.4	33684.8	35485.3	36515.8	38097.2	40381.4	40513.8	40329.4	37270.7
47.5°	29441.7	29617.4	31107.7	33569.9	36355.2	38600.5	40368.4	42719.9	42813.2	42247.0	39034.3
50°	28717.1	28879.8	30482.9	33300.9	37010.4	40568.0	42702.6	44741.7	45091.0	43971.6	40405.3
52.5°	27836.4	28010.0	29710.7	32880.0	37585.2	42027.9	44761.3	47026.0	47049.9	46127.9	41949.8
55°	26695.4	26996.9	28741.0	32151.1	37886.8	43281.8	46555.3	50047.8	50201.8	49310.3	43242.7
57.5°	25426.3	25688.8	27573.9	31179.3	37615.6	44234.1	49440.4	53288.8	53269.2	51479.6	44373.0
60°	23749.5	23936.0	26053.2	29908.1	36741.4	45386.0	52444.9	56761.8	56727.1	53605.5	45099.7
62.5°	21597.5	21784.1	23775.5	27914.5	35457.1	46158.3	54484.0	59362.8	59263.0	55152.2	45323.1
65°	19102.8	19436.9	21165.8	25326.5	33185.9	45650.7	55468.9	60894.3	60733.8	56332.3	44789.5
67.5°	16764.3	17048.5	18417.3	21764.5	29834.3	43592.0	54774.7	61289.1	61241.4	56503.7	43281.8
70°	13454.0	13558.1	14812.0	17677.6	24823.3	39184.0	52375.5	60378.0	60399.7	54924.4	40253.5
72.5°	9208.7	9462.5	10020.0	12282.6	18063.7	31161.9	45143.1	54338.7	54343.0	49249.5	35071.0
75°	4952.5	5345.1	5995.9	7117.5	10098.1	19996.6	36253.3	45088.8	45173.4	41062.6	27875.5
77.5°	2455.6	2596.6	2974.1	3807.1	4629.3	9434.3	23315.6	33845.4	34047.1	31519.9	19011.7
80°	1123.7	1147.6	1175.8	1169.3	1772.3	4139.0	10009.1	20326.3	20387.0	18747.1	8679.4
82.5°	878.6	874.2	887.2	807.0	811.3	1596.6	3464.4	5323.5	5677.0	4468.7	2752.8
85°	531.5	529.3	570.5	442.5	544.5	863.4	1748.5	2123.7	2149.8	1748.5	1425.2
87.5°	201.7	195.2	180.1	158.4	182.2	243.0	605.2	780.9	763.6	542.3	492.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P510628

CATALOG NUMBER: CST-CA10-760-760-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15048.4	15048.4	15048.4	15048.4	15048.4	15048.4	15048.4	15048.4	15048.4	15048.4	15048.4
2.5°	15107.0	15176.4	15304.4	15402.0	15434.5	15538.7	15638.5	15655.8	15727.4	15755.6	15848.9
5°	15295.7	15412.8	15612.4	15744.8	15803.3	15976.9	16089.7	16146.1	16126.5	16137.4	16241.5
7.5°	15571.2	15681.8	15842.4	16002.9	16031.1	16061.5	16050.6	16041.9	15966.0	15900.9	15998.6
10°	15822.8	15927.0	16026.8	16050.6	15907.4	15827.2	15684.0	15573.4	15425.9	15358.6	15436.7
12.5°	16176.4	16198.1	16100.5	15970.4	15662.3	15376.0	15143.9	14942.1	14759.9	14634.1	14738.2
15°	16549.6	16465.0	16180.8	15801.2	15323.9	14913.9	14534.3	14198.0	13896.5	13822.8	13851.0
17.5°	17044.2	16814.2	16241.5	15603.7	14861.8	14224.1	13736.0	13310.8	12916.0	12751.1	12735.9
20°	17647.2	17276.3	16365.2	15354.3	14315.2	13467.0	12712.1	12076.5	11532.0	11085.1	11095.9
22.5°	18432.5	17894.5	16551.7	15094.0	13710.0	12579.7	11482.1	10401.8	9505.9	9119.7	9024.3
25°	19469.4	18666.8	16816.4	14857.5	13033.1	11451.7	9900.7	8375.7	7427.7	7052.4	7011.2
27.5°	20760.2	19703.7	17219.9	14595.0	12308.6	10113.3	7883.2	6388.6	5518.7	5123.9	4991.6
30°	22226.6	20981.4	17634.2	14321.7	11432.2	8393.0	6011.1	4546.8	3655.3	3301.7	3256.1
32.5°	24124.7	22599.7	18250.3	13892.2	10152.3	6596.8	4193.2	2837.4	2232.2	2080.4	2037.0
35°	26821.2	24788.5	19011.7	13349.8	8508.0	4607.6	2598.8	1661.7	1338.5	1262.5	1247.3
37.5°	29335.4	26936.1	19779.6	12449.6	6460.2	2876.5	1486.0	1065.1	993.5	995.7	1000.0
40°	31329.0	28404.8	20400.1	11265.2	4249.7	1633.5	1032.6	885.1	887.2	880.7	876.4
42.5°	33103.5	29576.2	20679.9	9514.5	2462.2	1093.3	895.9	815.7	796.1	802.6	798.3
45°	34572.1	30771.5	20137.6	7547.0	1451.3	980.5	846.0	757.1	735.4	770.1	774.4
47.5°	36116.6	31906.0	19306.7	5685.7	1177.9	932.8	800.5	713.7	702.9	746.2	750.6
50°	37416.0	32728.2	17890.2	4284.4	1123.7	880.7	759.3	670.3	668.1	707.2	707.2
52.5°	38502.8	33224.9	16209.0	3308.2	1086.8	835.2	718.0	629.1	629.1	642.1	644.3
55°	39268.6	33125.2	15206.8	2603.2	1047.8	791.8	674.7	590.0	564.0	555.3	559.7
57.5°	39407.4	32860.5	14044.0	2030.5	1002.2	750.6	635.6	544.5	496.8	490.3	488.1
60°	39318.5	32279.1	12716.4	1696.4	950.2	711.5	596.6	496.8	449.0	433.9	438.2
62.5°	38947.5	31248.7	11182.7	1488.1	898.1	681.2	553.2	464.2	420.8	401.3	401.3
65°	37828.2	29773.6	8905.0	1303.7	833.0	648.6	518.5	451.2	403.5	381.8	377.5
67.5°	35368.2	26712.7	6692.3	1143.2	770.1	613.9	514.1	449.0	394.8	364.4	360.1
70°	32068.7	22946.8	4568.5	1004.4	700.7	581.4	512.0	451.2	386.1	347.1	342.7
72.5°	26771.3	18089.8	2631.4	874.2	631.3	551.0	503.3	453.4	370.9	323.2	316.7
75°	20115.9	12688.2	1544.5	750.6	564.0	505.4	479.4	440.4	347.1	295.0	288.5
77.5°	12098.2	5924.3	1162.7	622.6	483.8	444.7	427.4	403.5	316.7	273.3	266.8
80°	4438.4	2249.6	913.3	498.9	384.0	386.1	368.8	353.6	288.5	251.6	247.3
82.5°	1935.0	1375.3	674.7	379.6	301.5	344.9	303.7	290.7	247.3	225.6	216.9
85°	1173.6	820.0	433.9	258.1	208.3	234.3	212.6	223.4	190.9	177.9	171.4
87.5°	388.3	245.1	193.1	125.8	104.1	97.6	95.4	115.0	108.5	99.8	99.8
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)