

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: P510598

Luminaire Tested: **CST-CA10-760-730-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510598
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-CA10-760-730-U-T3-HSS
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 97555 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

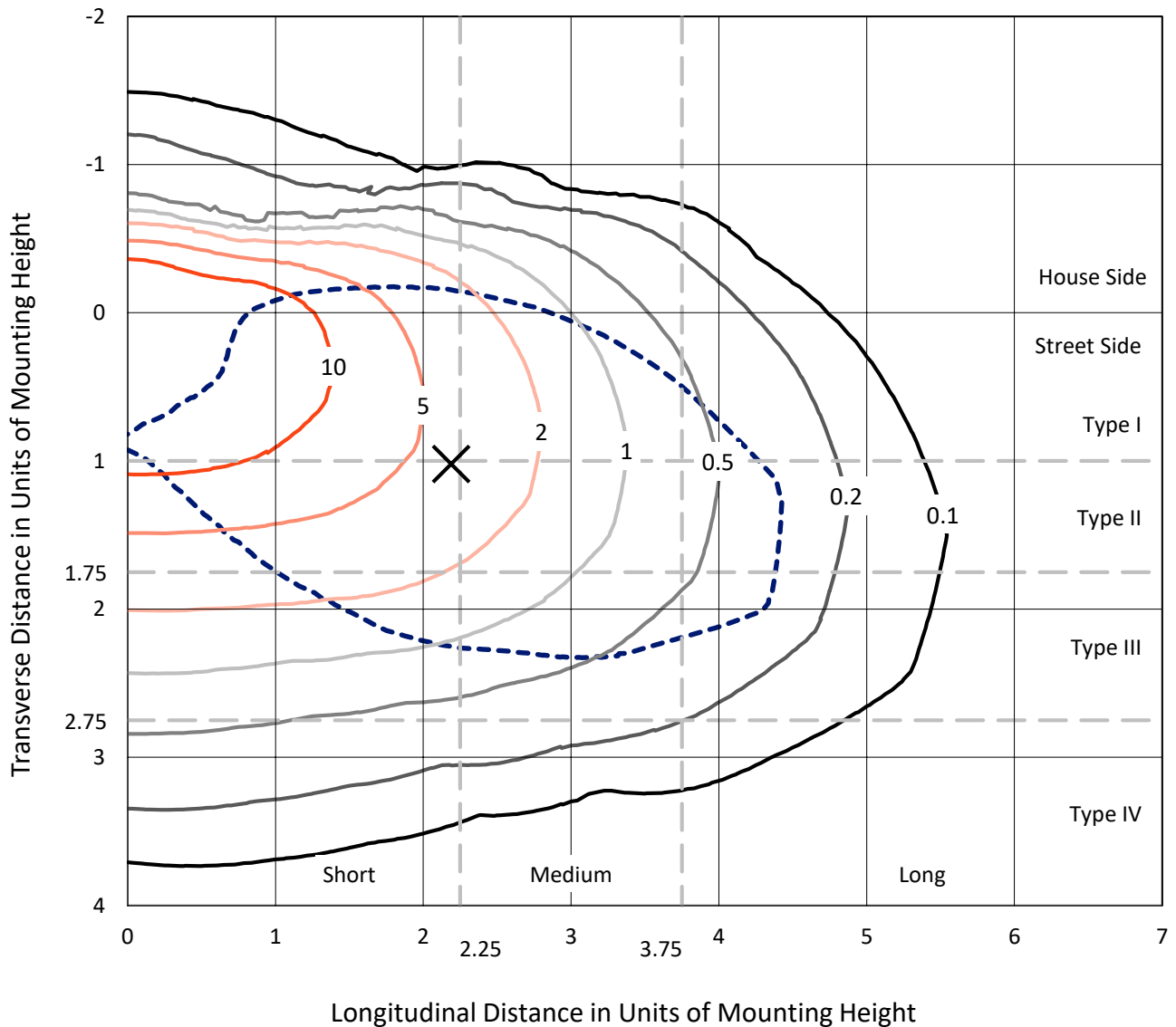
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510598
 CATALOG NUMBER: CST-CA10-760-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

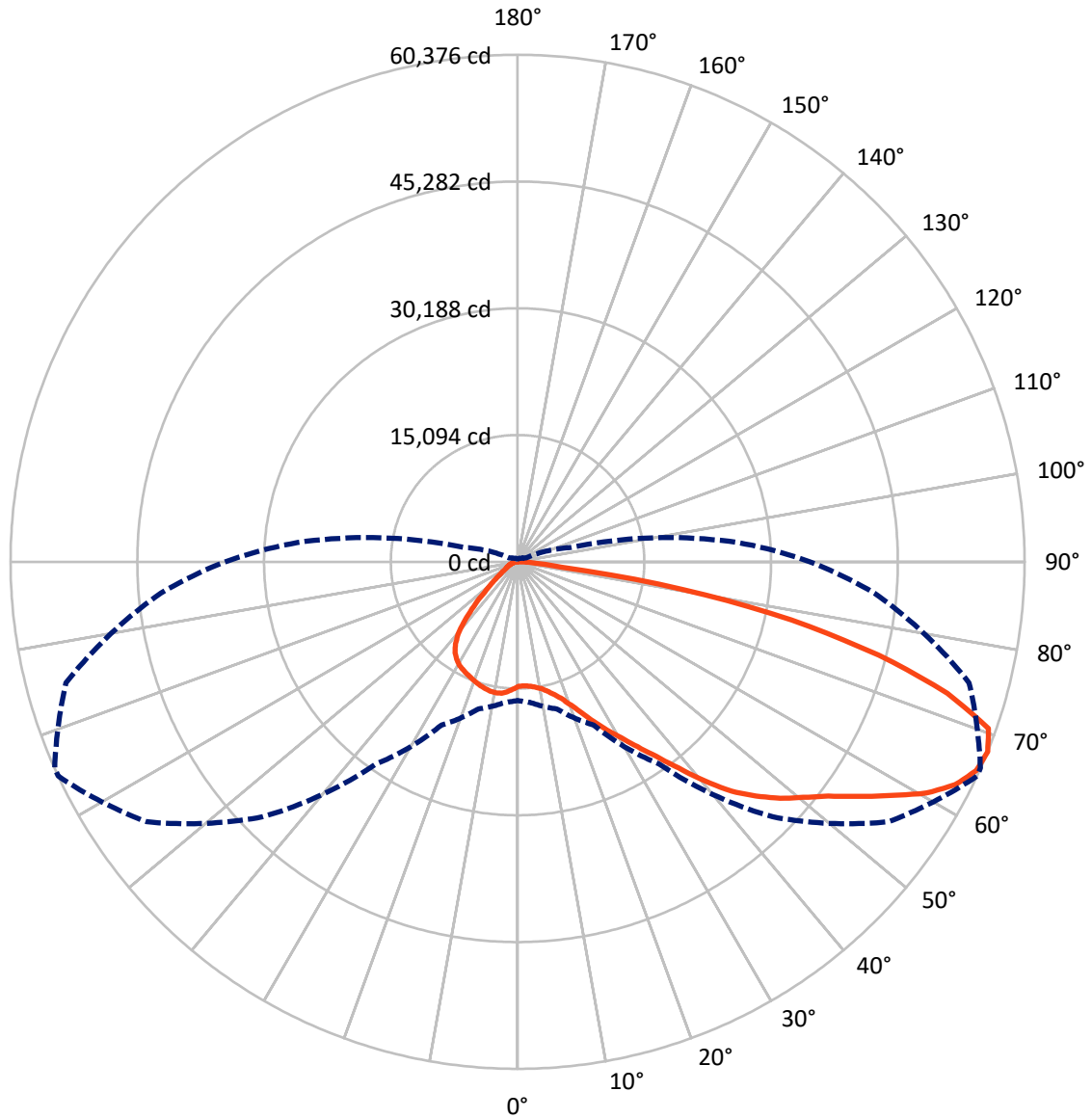
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 19.4 fc
 Type III - Short - N/A

REPORT NUMBER: P510598
CATALOG NUMBER: CST-CA10-760-730-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P510598
 CATALOG NUMBER: CST-CA10-760-730-U-T3-HSS

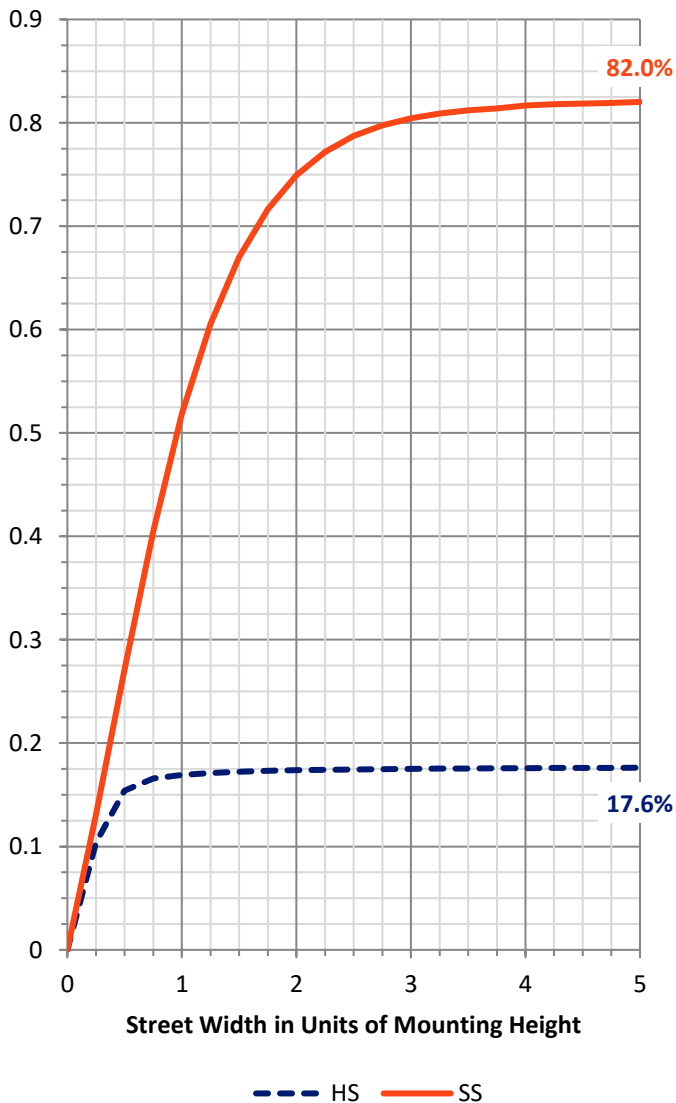
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17435.5	0.0	17435.5
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	80119.5	0.0	80119.5
	% Fixture	82.1	0.0	82.1
Total	Lumens	97555.0	0.0	97555.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1466.6	1.5
10°-20°	4527.9	4.6
20°-30°	7855.0	8.1
30°-40°	11849.2	12.1
40°-50°	16429.7	16.8
50°-60°	20280.3	20.8
60°-70°	21608.4	22.1
70°-80°	12364.7	12.7
80°-90°	1173.2	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°	97555.0	100.0
0°-180°	97555.0	100.0

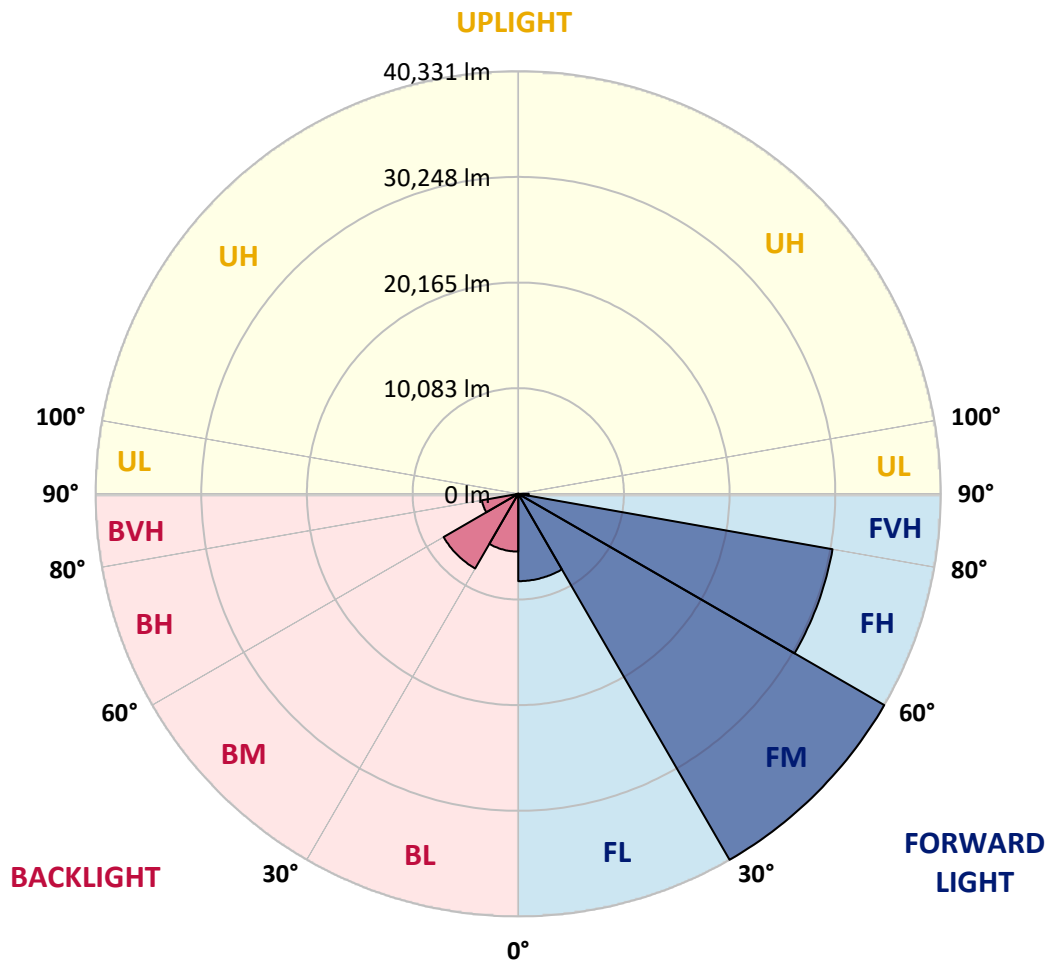


REPORT NUMBER: P510598
 CATALOG NUMBER: CST-CA10-760-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8332.5	8.5			
FM (30°-60°)	40330.6	41.3			
FH (60°-80°)	30454.0	31.2			G5
FVH (80°-90°)	1002.4	1.0			G5
BL (0°-30°)	5517.0	5.7	B5		
BM (30°-60°)	8228.6	8.4	B4/8500		
BH (60°-80°)	3519.0	3.6	B4/5000		G4/5000
BVH (80°-90°)	170.7	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type III Short





REPORT NUMBER: P510598

CATALOG NUMBER: CST-CA10-760-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	14824.1	14824.1	14824.1	14824.1	14824.1	14824.1	14824.1	14824.1	14824.1	14824.1	14824.1
2.5°	14680.9	14661.7	14644.6	14674.5	14691.6	14719.4	14760.0	14787.8	14796.3	14822.0	14854.0
5°	14916.0	14913.9	14890.4	14877.5	14841.2	14828.4	14836.9	14871.1	14873.3	14905.3	15005.8
7.5°	15377.6	15373.3	15315.6	15290.0	15213.0	15127.6	15063.5	15069.9	15067.7	15099.8	15234.4
10°	16074.2	16040.1	15958.8	15879.8	15730.2	15569.9	15452.4	15345.5	15345.5	15392.6	15542.1
12.5°	16860.6	16907.7	16796.5	16676.9	16426.8	16138.4	15933.2	15813.5	15800.7	15824.2	15931.1
15°	17837.2	17837.2	17762.4	17591.5	17371.4	16969.6	16546.5	16394.8	16373.4	16422.6	16416.2
17.5°	18937.8	18969.8	18828.8	18743.3	18405.7	17961.2	17431.2	17168.4	17168.4	17136.3	16988.9
20°	20341.8	20166.5	20181.5	20040.4	19792.6	19147.2	18608.7	18226.2	18221.9	18157.8	17743.2
22.5°	21867.6	21771.4	21688.0	21564.1	21222.2	20645.2	19897.3	19519.0	19510.5	19352.3	18736.9
25°	23372.0	23444.6	23352.7	23126.2	22876.2	22247.9	21423.1	21051.2	21049.1	20786.2	19914.4
27.5°	24919.1	24998.2	24968.3	24763.1	24429.8	23938.3	23158.3	22673.2	22643.3	22472.3	21376.1
30°	26628.7	26558.2	26650.1	26562.5	26395.8	25594.4	24889.2	24325.1	24397.7	24346.4	23036.5
32.5°	27872.4	27917.3	28218.6	28227.2	28051.9	27457.8	26596.7	26250.5	26365.9	26297.5	25077.3
35°	28996.5	29069.1	29458.0	29840.6	29968.8	29319.1	28443.0	28421.6	28571.2	28987.9	27889.5
37.5°	29962.4	30013.7	30558.6	31056.5	31471.1	31026.6	30389.8	31148.4	31368.5	32221.1	30791.5
40°	30541.5	30607.7	31312.9	32013.9	32753.2	32595.1	32535.3	34330.3	34537.6	35287.7	32909.2
42.5°	30214.5	30344.9	31520.2	32802.4	33890.1	34206.4	35024.8	37332.8	37570.0	37634.1	34990.6
45°	29631.1	29793.6	31107.8	33182.8	34956.5	35971.5	37529.4	39779.6	39909.9	39728.3	36715.2
47.5°	29002.9	29176.0	30644.1	33069.5	35813.4	38025.1	39766.8	42083.2	42175.1	41617.4	38452.5
50°	28289.1	28449.4	30028.6	32804.5	36458.7	39963.4	42066.1	44074.9	44418.9	43316.3	39803.1
52.5°	27421.5	27592.5	29267.9	32390.0	37025.0	41401.5	44094.1	46325.1	46348.6	45440.4	41324.6
55°	26297.5	26594.5	28312.6	31671.9	37322.1	42636.7	45861.4	49301.9	49453.6	48575.3	42598.2
57.5°	25047.4	25305.9	27162.9	30714.6	37055.0	43574.8	48703.5	52494.5	52475.3	50712.3	43711.6
60°	23395.5	23579.3	25664.9	29462.3	36193.8	44709.6	51663.2	55915.8	55881.6	52806.5	44427.5
62.5°	21275.6	21459.4	23421.1	27498.5	34928.7	45470.3	53672.0	58478.0	58379.7	54330.2	44647.6
65°	18818.1	19147.2	20850.4	24949.1	32691.3	44970.3	54642.2	59986.7	59828.6	55492.7	44121.9
67.5°	16514.5	16794.4	18142.8	21440.2	29389.7	42942.3	53958.3	60375.6	60328.6	55661.5	42636.7
70°	13253.5	13356.0	14591.2	17414.1	24453.3	38600.0	51594.9	59478.1	59499.5	54105.8	39653.5
72.5°	9071.4	9321.4	9870.6	12099.5	17794.5	30697.5	44470.2	53528.8	53533.1	48515.5	34548.3
75°	4878.7	5265.5	5906.6	7011.4	9947.6	19698.5	35712.9	44416.8	44500.1	40450.6	27460.0
77.5°	2419.0	2557.9	2929.8	3750.4	4560.3	9293.7	22968.1	33340.9	33539.6	31050.1	18728.4
80°	1106.9	1130.5	1158.2	1151.8	1745.9	4077.3	9860.0	20023.4	20083.2	18467.6	8550.0
82.5°	865.5	861.2	874.0	795.0	799.2	1572.8	3412.7	5244.1	5592.4	4402.1	2711.8
85°	523.6	521.4	562.0	435.9	536.4	850.5	1722.4	2092.1	2117.7	1722.4	1404.0
87.5°	198.7	192.3	177.4	156.0	179.5	239.3	596.2	769.3	752.2	534.2	485.1
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: P510598

CATALOG NUMBER: CST-CA10-760-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14824.1	14824.1	14824.1	14824.1	14824.1	14824.1	14824.1	14824.1	14824.1	14824.1	14824.1
2.5°	14881.8	14950.2	15076.3	15172.4	15204.5	15307.1	15405.4	15422.5	15493.0	15520.8	15612.7
5°	15067.7	15183.1	15379.7	15510.1	15567.8	15738.7	15849.9	15905.4	15886.2	15896.9	15999.4
7.5°	15339.1	15448.1	15606.2	15764.4	15792.2	15822.1	15811.4	15802.8	15728.1	15663.9	15760.1
10°	15587.0	15689.6	15787.9	15811.4	15670.4	15591.3	15450.2	15341.3	15196.0	15129.7	15206.6
12.5°	15935.3	15956.7	15860.5	15732.3	15428.9	15146.8	14918.1	14719.4	14539.9	14416.0	14518.5
15°	16302.9	16219.6	15939.6	15565.6	15095.5	14691.6	14317.7	13986.4	13689.4	13616.7	13644.5
17.5°	16790.1	16563.6	15999.4	15371.2	14640.3	14012.1	13531.3	13112.4	12723.5	12561.1	12546.1
20°	17384.2	17018.8	16121.3	15125.4	14101.8	13266.3	12522.6	11896.5	11360.1	10919.9	10930.6
22.5°	18157.8	17627.8	16305.0	14869.0	13505.6	12392.3	11311.0	10246.7	9364.2	8983.8	8889.8
25°	19179.3	18388.6	16565.7	14636.1	12838.9	11281.0	9753.1	8250.8	7317.0	6947.3	6906.7
27.5°	20450.7	19410.0	16963.2	14377.5	12125.1	9962.5	7765.7	6293.4	5436.4	5047.5	4917.2
30°	21895.3	20668.7	17371.4	14108.2	11261.8	8267.9	5921.5	4479.1	3600.8	3252.5	3207.6
32.5°	23765.2	22262.9	17978.3	13685.1	10001.0	6498.5	4130.8	2795.1	2198.9	2049.3	2006.6
35°	26421.4	24419.1	18728.4	13150.9	8381.2	4538.9	2560.1	1636.9	1318.5	1243.7	1228.8
37.5°	28898.2	26534.7	19484.8	12264.0	6363.9	2833.6	1463.8	1049.2	978.7	980.9	985.1
40°	30862.0	27981.4	20096.0	11097.3	4186.3	1609.1	1017.2	871.9	874.0	867.6	863.3
42.5°	32610.1	29135.4	20371.7	9372.7	2425.5	1077.0	882.6	803.5	784.3	790.7	786.4
45°	34056.8	30312.8	19837.4	7434.5	1429.6	965.9	833.4	745.8	724.4	758.6	762.9
47.5°	35578.3	31430.5	19019.0	5601.0	1160.4	918.9	788.5	703.1	692.4	735.1	739.4
50°	36858.4	32240.4	17623.5	4220.5	1106.9	867.6	747.9	660.3	658.2	696.7	696.7
52.5°	37929.0	32729.7	15967.4	3258.9	1070.6	822.7	707.3	619.7	619.7	632.5	634.7
55°	38683.3	32631.4	14980.1	2564.4	1032.2	780.0	664.6	581.3	555.6	547.1	551.3
57.5°	38820.1	32370.7	13834.7	2000.2	987.3	739.4	626.1	536.4	489.4	483.0	480.8
60°	38732.5	31798.0	12526.9	1671.1	936.0	700.9	587.7	489.4	442.4	427.4	431.7
62.5°	38367.1	30783.0	11016.0	1466.0	884.7	671.0	544.9	457.3	414.6	395.3	395.3
65°	37264.4	29329.8	8772.2	1284.3	820.6	639.0	510.7	444.5	397.5	376.1	371.8
67.5°	34841.1	26314.6	6592.5	1126.2	758.6	604.8	506.5	442.4	388.9	359.0	354.7
70°	31590.7	22604.8	4500.4	989.4	690.2	572.7	504.3	444.5	380.4	341.9	337.6
72.5°	26372.3	17820.1	2592.1	861.2	621.9	542.8	495.8	446.6	365.4	318.4	312.0
75°	19816.1	12499.1	1521.5	739.4	555.6	497.9	472.3	433.8	341.9	290.6	284.2
77.5°	11917.8	5836.0	1145.4	613.3	476.5	438.1	421.0	397.5	312.0	269.3	262.8
80°	4372.2	2216.0	899.7	491.5	378.2	380.4	363.3	348.3	284.2	247.9	243.6
82.5°	1906.2	1354.8	664.6	374.0	297.0	339.8	299.2	286.4	243.6	222.2	213.7
85°	1156.1	807.8	427.4	254.3	205.1	230.8	209.4	220.1	188.1	175.2	168.8
87.5°	382.5	241.5	190.2	123.9	102.6	96.2	94.0	113.3	106.8	98.3	98.3
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)