

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: P510608

Luminaire Tested: **CST-CA10-760-740-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510608
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-CA10-760-740-U-T3-HSS
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 99353 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

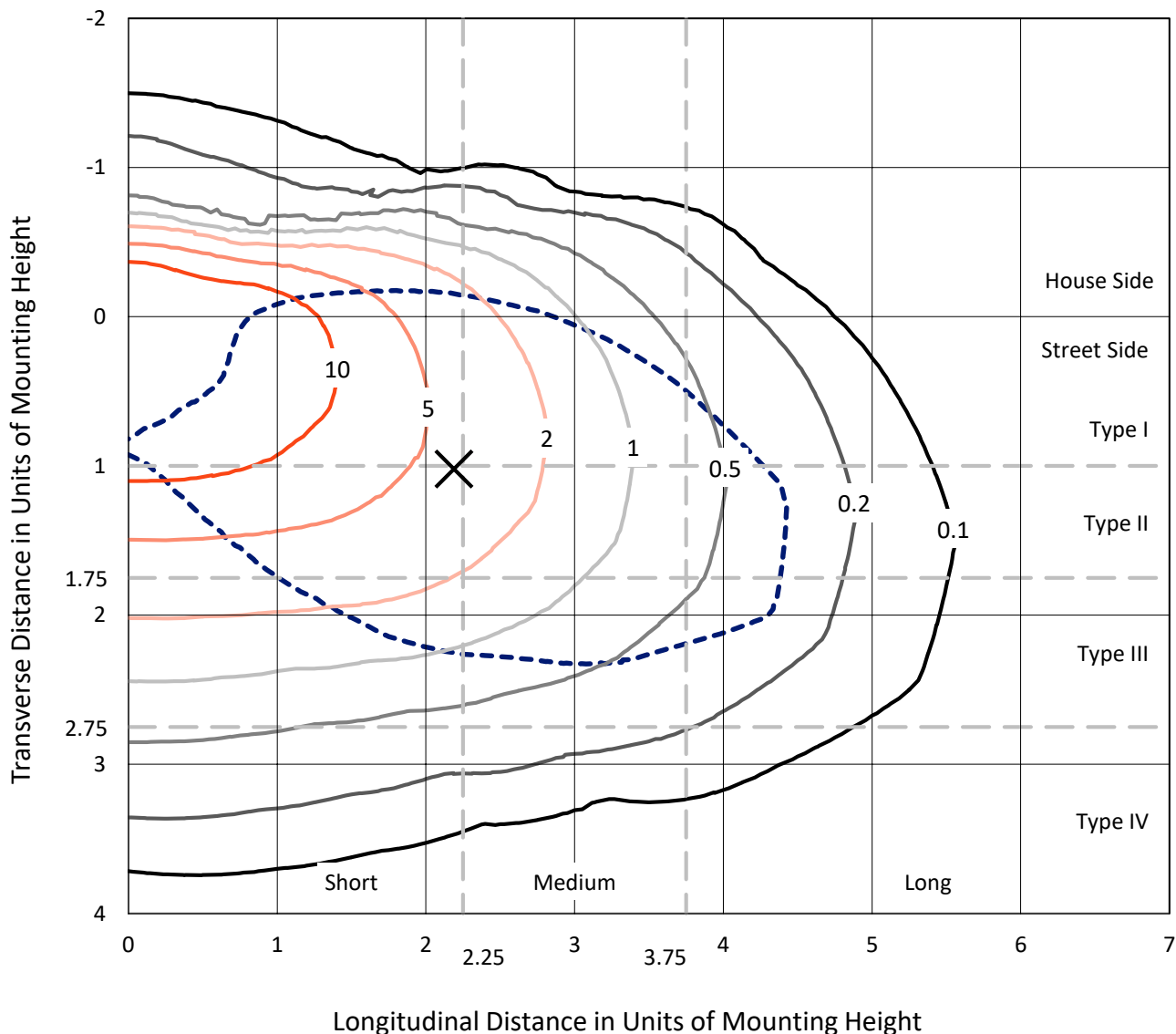
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510608
 CATALOG NUMBER: CST-CA10-760-740-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

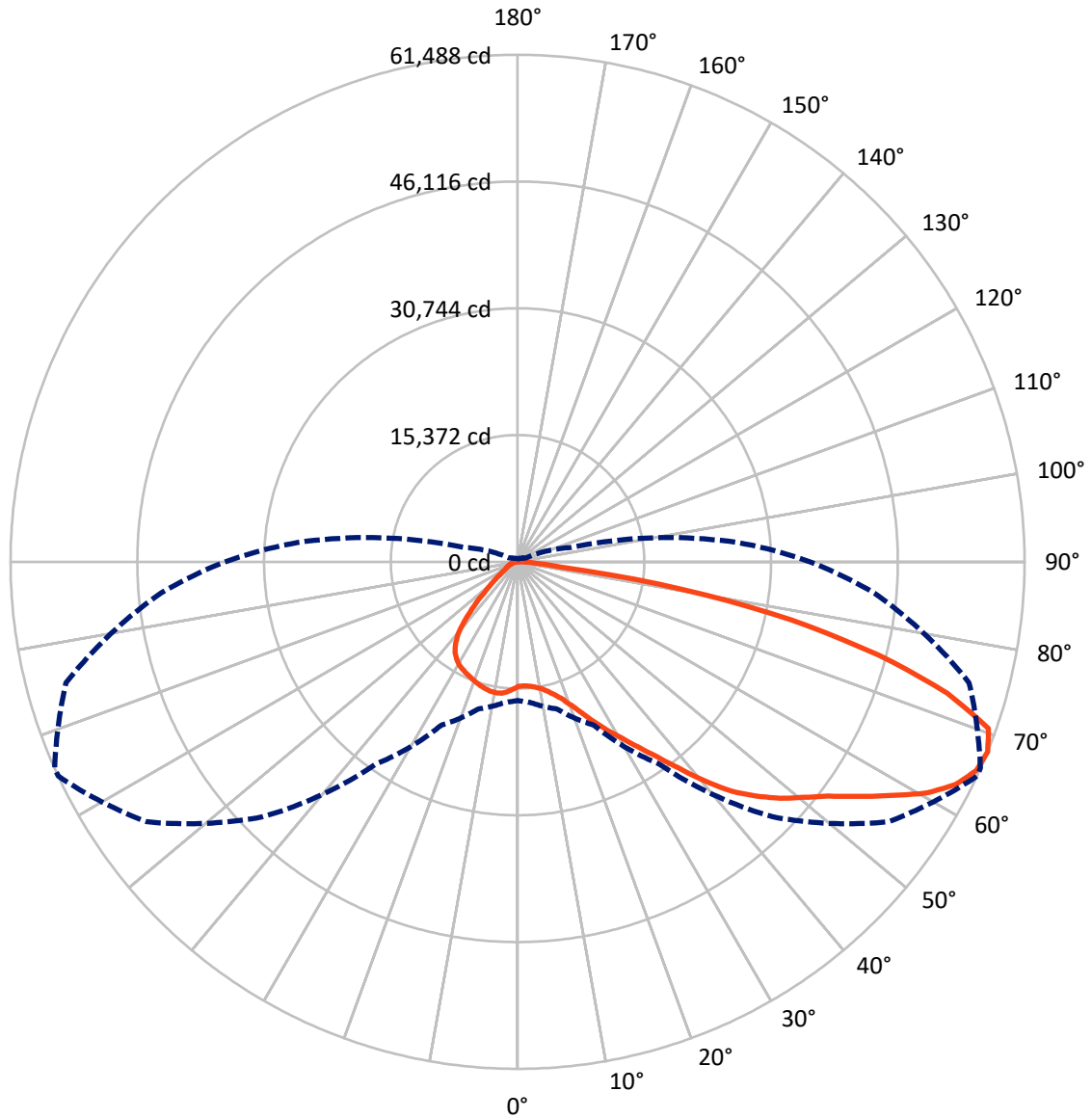
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P510608
CATALOG NUMBER: CST-CA10-760-740-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P510608
 CATALOG NUMBER: CST-CA10-760-740-U-T3-HSS

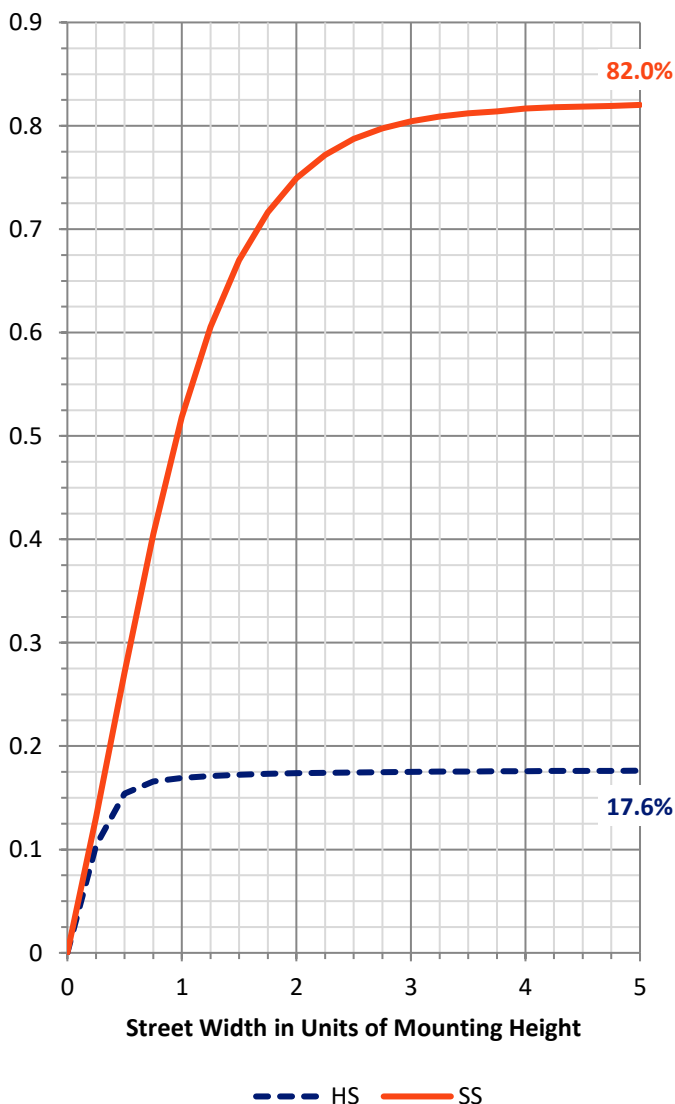
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17756.8	0.0	17756.8
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	81596.2	0.0	81596.2
	% Fixture	82.1	0.0	82.1
Total	Lumens	99353.0	0.0	99353.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1493.6	1.5
10°-20°	4611.4	4.6
20°-30°	7999.8	8.1
30°-40°	12067.6	12.1
40°-50°	16732.5	16.8
50°-60°	20654.1	20.8
60°-70°	22006.6	22.1
70°-80°	12592.5	12.7
80°-90°	1194.8	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°	99353.0	100.0
0°-180°	99353.0	100.0

Coefficient of Utilization

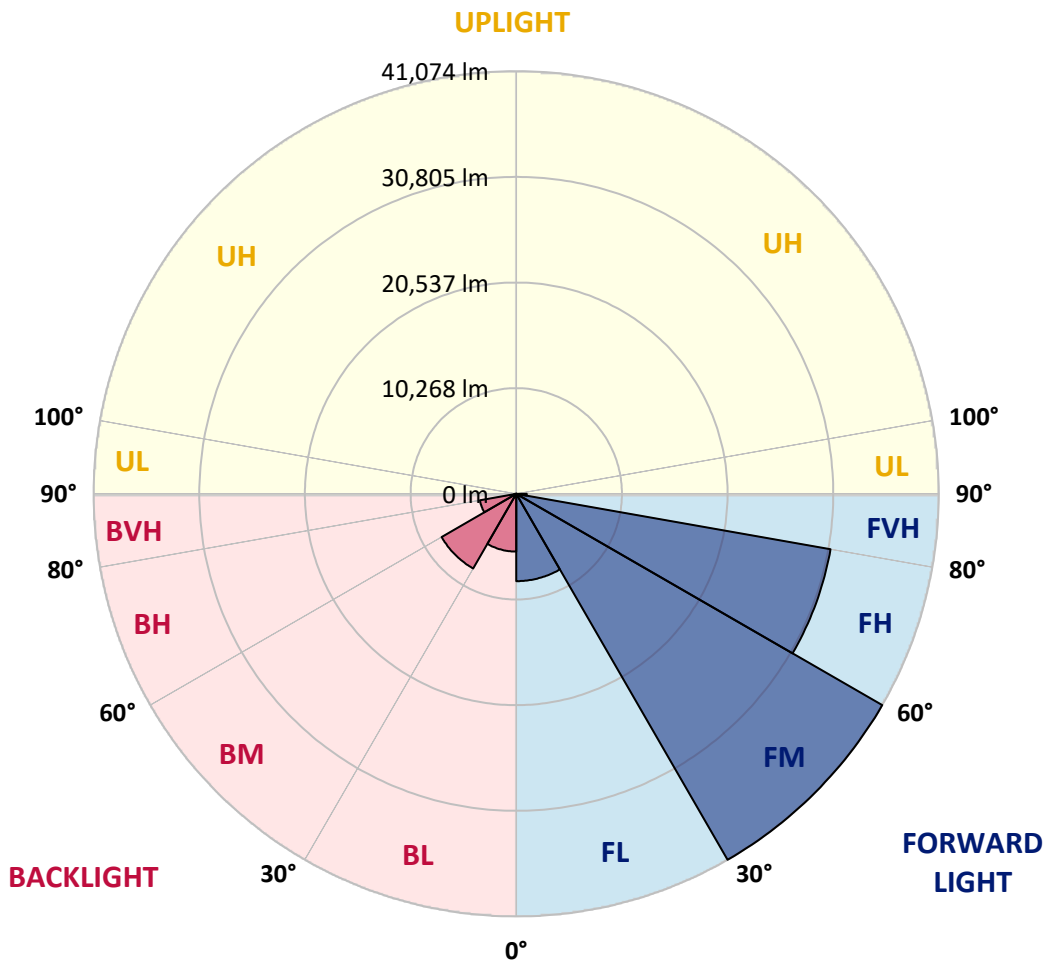


REPORT NUMBER: P510608
 CATALOG NUMBER: CST-CA10-760-740-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8486.1	8.5			
FM (30°-60°)	41074.0	41.3			
FH (60°-80°)	31015.3	31.2			G5
FVH (80°-90°)	1020.9	1.0			G5
BL (0°-30°)	5618.7	5.7	B5		
BM (30°-60°)	8380.3	8.4	B4/8500		
BH (60°-80°)	3583.9	3.6	B4/5000		G4/5000
BVH (80°-90°)	173.9	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: P510608

CATALOG NUMBER: CST-CA10-760-740-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	15097.3	15097.3	15097.3	15097.3	15097.3	15097.3	15097.3	15097.3	15097.3	15097.3	15097.3
2.5°	14951.5	14931.9	14914.5	14945.0	14962.4	14990.7	15032.0	15060.3	15069.0	15095.2	15127.8
5°	15190.9	15188.7	15164.8	15151.7	15114.7	15101.7	15110.4	15145.2	15147.4	15180.0	15282.3
7.5°	15661.0	15656.7	15597.9	15571.8	15493.4	15406.4	15341.1	15347.6	15345.4	15378.1	15515.2
10°	16370.5	16335.7	16253.0	16172.5	16020.1	15856.9	15737.2	15628.4	15628.4	15676.2	15828.6
12.5°	17171.4	17219.3	17106.1	16984.2	16729.6	16435.8	16226.9	16105.0	16091.9	16115.9	16224.7
15°	18166.0	18166.0	18089.8	17915.7	17691.5	17282.4	16851.5	16697.0	16675.2	16725.2	16718.7
17.5°	19286.8	19319.5	19175.8	19088.8	18744.9	18292.2	17752.5	17484.8	17484.8	17452.1	17302.0
20°	20716.7	20538.2	20553.4	20409.8	20157.3	19500.1	18951.7	18562.1	18557.7	18492.4	18070.2
22.5°	22270.6	22172.6	22087.8	21961.5	21613.3	21025.7	20264.0	19878.8	19870.1	19709.0	19082.2
25°	23802.7	23876.7	23783.1	23552.5	23297.8	22658.0	21817.9	21439.2	21437.0	21169.4	20281.4
27.5°	25378.4	25458.9	25428.5	25219.5	24880.0	24379.5	23585.1	23091.1	23060.6	22886.5	21770.0
30°	27119.5	27047.7	27141.3	27052.0	26882.3	26066.1	25347.9	24773.4	24847.4	24795.2	23461.0
32.5°	28386.1	28431.8	28738.7	28747.4	28568.9	27963.9	27086.8	26734.3	26851.8	26782.2	25539.5
35°	29530.9	29604.9	30001.0	30390.5	30521.1	29859.5	28967.2	28945.4	29097.8	29522.2	28403.5
37.5°	30514.6	30566.8	31121.8	31628.9	32051.1	31598.4	30949.9	31722.5	31946.6	32815.0	31359.0
40°	31104.4	31171.9	31890.0	32603.9	33356.9	33195.9	33134.9	34963.1	35174.2	35938.1	33515.8
42.5°	30771.4	30904.2	32101.2	33407.0	34514.7	34836.8	35670.4	38020.8	38262.4	38327.7	35635.5
45°	30177.3	30342.7	31681.1	33794.4	35600.7	36634.5	38221.1	40512.7	40645.5	40460.5	37391.9
47.5°	29537.4	29713.7	31208.9	33679.0	36473.4	38726.0	40499.7	42858.9	42952.4	42384.4	39161.2
50°	28810.5	28973.7	30582.1	33409.1	37130.7	40699.9	42841.4	44887.2	45237.6	44114.6	40536.7
52.5°	27926.9	28101.0	29807.3	32986.9	37707.4	42164.6	44906.8	47178.9	47202.8	46277.9	42086.2
55°	26782.2	27084.7	28834.5	32255.7	38009.9	43422.5	46706.6	50210.6	50365.1	49470.6	43383.4
57.5°	25509.0	25772.3	27663.6	31280.7	37737.9	44377.9	49601.2	53462.0	53442.4	51647.0	44517.2
60°	23826.7	24013.8	26138.0	30005.3	36860.8	45533.6	52615.4	56946.4	56911.5	53779.8	45246.3
62.5°	21667.7	21854.9	23852.8	28005.3	35572.4	46308.4	54661.2	59555.8	59455.7	55331.5	45470.5
65°	19164.9	19500.1	21234.6	25408.9	33293.8	45799.1	55649.3	61092.3	60931.3	56515.4	44935.1
67.5°	16818.8	17103.9	18477.2	21835.3	29931.3	43733.7	54952.8	61488.4	61440.5	56687.4	43422.5
70°	13497.7	13602.2	14860.1	17735.1	24904.0	39311.4	52545.8	60574.3	60596.1	55103.0	40384.3
72.5°	9238.6	9493.2	10052.6	12322.5	18122.5	31263.3	45289.8	54515.4	54519.7	49409.7	35185.0
75°	4968.6	5362.5	6015.4	7140.6	10130.9	20061.6	36371.2	45235.4	45320.3	41196.1	27966.1
77.5°	2463.6	2605.1	2983.8	3819.5	4644.3	9464.9	23391.4	33955.4	34157.8	31622.4	19073.5
80°	1127.3	1151.3	1179.6	1173.1	1778.1	4152.5	10041.7	20392.4	20453.3	18808.0	8707.6
82.5°	881.4	877.1	890.1	809.6	814.0	1601.8	3475.6	5340.8	5695.5	4483.3	2761.8
85°	533.2	531.0	572.4	444.0	546.3	866.2	1754.1	2130.6	2156.8	1754.1	1429.9
87.5°	202.4	195.9	180.6	158.9	182.8	243.8	607.2	783.5	766.1	544.1	494.0
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: P510608

CATALOG NUMBER: CST-CA10-760-740-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15097.3	15097.3	15097.3	15097.3	15097.3	15097.3	15097.3	15097.3	15097.3	15097.3	15097.3
2.5°	15156.1	15225.7	15354.1	15452.1	15484.7	15589.2	15689.3	15706.7	15778.5	15806.8	15900.4
5°	15345.4	15463.0	15663.2	15795.9	15854.7	16028.8	16142.0	16198.6	16179.0	16189.9	16294.3
7.5°	15621.8	15732.8	15893.9	16054.9	16083.2	16113.7	16102.8	16094.1	16017.9	15952.6	16050.6
10°	15874.3	15978.8	16078.9	16102.8	15959.2	15878.6	15735.0	15624.0	15476.0	15408.6	15486.9
12.5°	16229.0	16250.8	16152.9	16022.3	15713.2	15426.0	15193.1	14990.7	14807.9	14681.7	14786.1
15°	16603.4	16518.5	16233.4	15852.5	15373.7	14962.4	14581.5	14244.2	13941.7	13867.7	13896.0
17.5°	17099.6	16868.9	16294.3	15654.5	14910.2	14270.3	13780.6	13354.1	12958.0	12792.6	12777.3
20°	17704.6	17332.4	16418.4	15404.2	14361.7	13510.8	12753.4	12115.7	11569.5	11121.1	11132.0
22.5°	18492.4	17952.7	16605.5	15143.0	13754.5	12620.7	11519.4	10435.6	9536.8	9149.4	9053.6
25°	19532.7	18727.5	16871.1	14905.8	13075.5	11488.9	9932.9	8402.9	7451.8	7075.3	7034.0
27.5°	20827.7	19767.8	17275.9	14642.5	12348.6	10146.1	7908.9	6409.3	5536.6	5140.5	5007.8
30°	22298.9	21049.7	17691.5	14368.3	11469.4	8420.3	6030.7	4561.6	3667.1	3312.4	3266.7
32.5°	24203.2	22673.2	18309.6	13937.3	10185.3	6618.3	4206.9	2846.7	2239.5	2087.1	2043.6
35°	26908.4	24869.1	19073.5	13393.3	8535.6	4622.6	2607.3	1667.1	1342.8	1266.6	1251.4
37.5°	29430.8	27023.7	19844.0	12490.1	6481.2	2885.8	1490.8	1068.6	996.8	998.9	1003.3
40°	31430.8	28497.1	20466.4	11301.8	4263.5	1638.8	1035.9	888.0	890.1	883.6	879.2
42.5°	33211.1	29672.3	20747.1	9545.5	2470.2	1096.9	898.8	818.3	798.7	805.2	800.9
45°	34684.5	30871.5	20203.1	7571.5	1456.0	983.7	848.8	759.5	737.8	772.6	777.0
47.5°	36234.0	32009.7	19369.5	5704.2	1181.8	935.8	803.1	716.0	705.1	748.7	753.0
50°	37537.7	32834.6	17948.4	4298.3	1127.3	883.6	761.7	672.5	670.3	709.5	709.5
52.5°	38628.0	33333.0	16261.7	3318.9	1090.4	837.9	720.4	631.1	631.1	644.2	646.4
55°	39396.3	33232.9	15256.2	2611.6	1051.2	794.4	676.8	592.0	565.9	557.1	561.5
57.5°	39535.6	32967.3	14089.7	2037.1	1005.5	753.0	637.7	546.3	498.4	491.9	489.7
60°	39446.3	32384.1	12757.8	1701.9	953.2	713.8	598.5	498.4	450.5	435.3	439.6
62.5°	39074.2	31350.3	11219.1	1493.0	901.0	683.4	555.0	465.7	422.2	402.6	402.6
65°	37951.2	29870.4	8933.9	1308.0	835.7	650.7	520.1	452.7	404.8	383.0	378.7
67.5°	35483.2	26799.6	6714.0	1146.9	772.6	615.9	515.8	450.5	396.1	365.6	361.3
70°	32173.0	23021.4	4583.4	1007.6	703.0	583.3	513.6	452.7	387.4	348.2	343.9
72.5°	26858.3	18148.6	2639.9	877.1	633.3	552.8	504.9	454.9	372.2	324.3	317.7
75°	20181.3	12729.5	1549.6	753.0	565.9	507.1	481.0	441.8	348.2	296.0	289.5
77.5°	12137.5	5943.6	1166.5	624.6	485.3	446.2	428.7	404.8	317.7	274.2	267.7
80°	4452.8	2256.9	916.2	500.6	385.2	387.4	370.0	354.7	289.5	252.5	248.1
82.5°	1941.3	1379.8	676.8	380.9	302.5	346.0	304.7	291.6	248.1	226.3	217.6
85°	1177.4	822.7	435.3	259.0	208.9	235.0	213.3	224.2	191.5	178.5	171.9
87.5°	389.6	245.9	193.7	126.2	104.5	97.9	95.8	115.3	108.8	100.1	100.1
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)