

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: P510609

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

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-11)
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
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: 106747 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

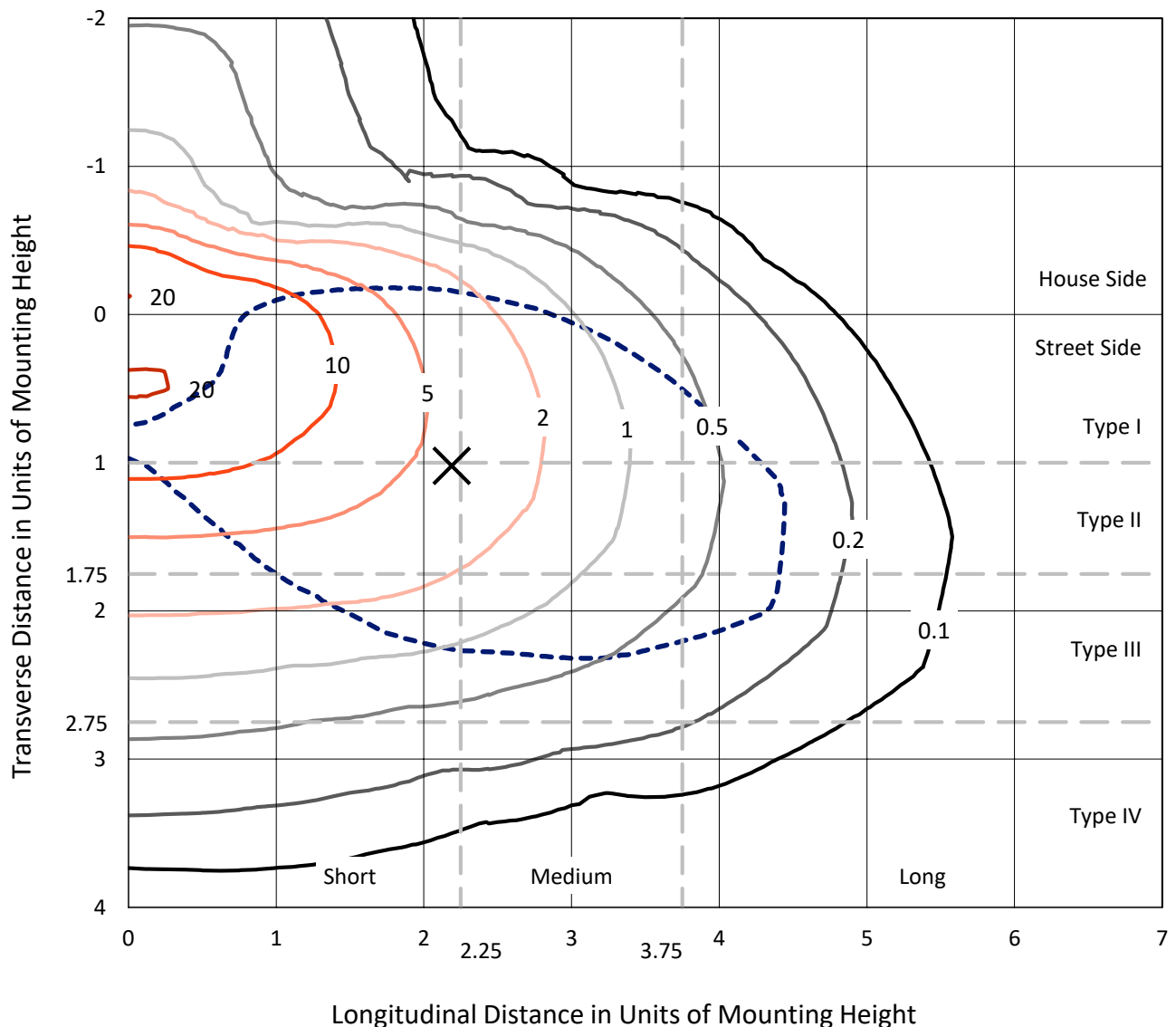
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

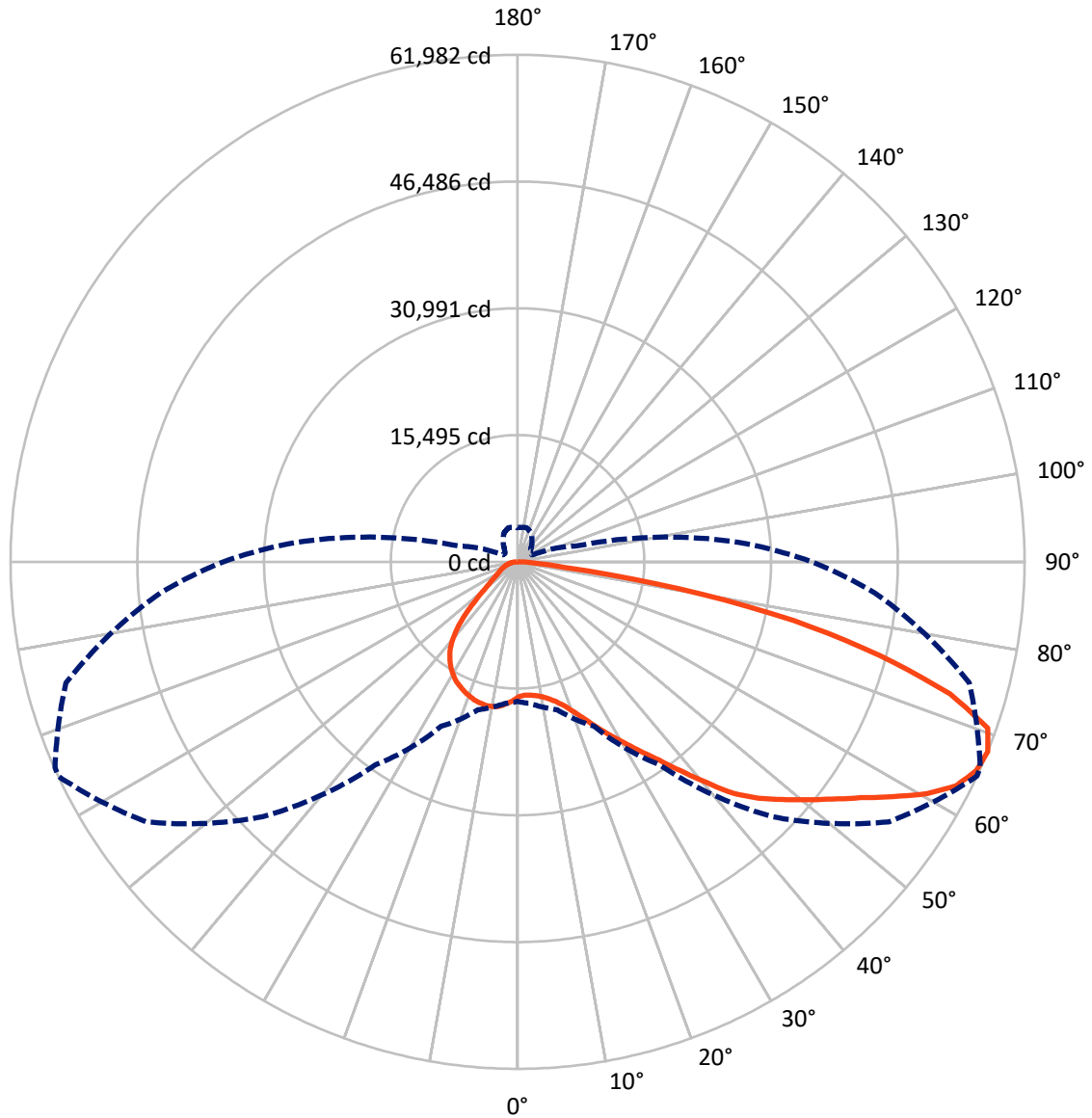
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 20.4 fc
 Type III - Short - N/A

REPORT NUMBER: P510609
CATALOG NUMBER: CST-CA10-760-740-U-T3

Luminous Intensity Polar Plot



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

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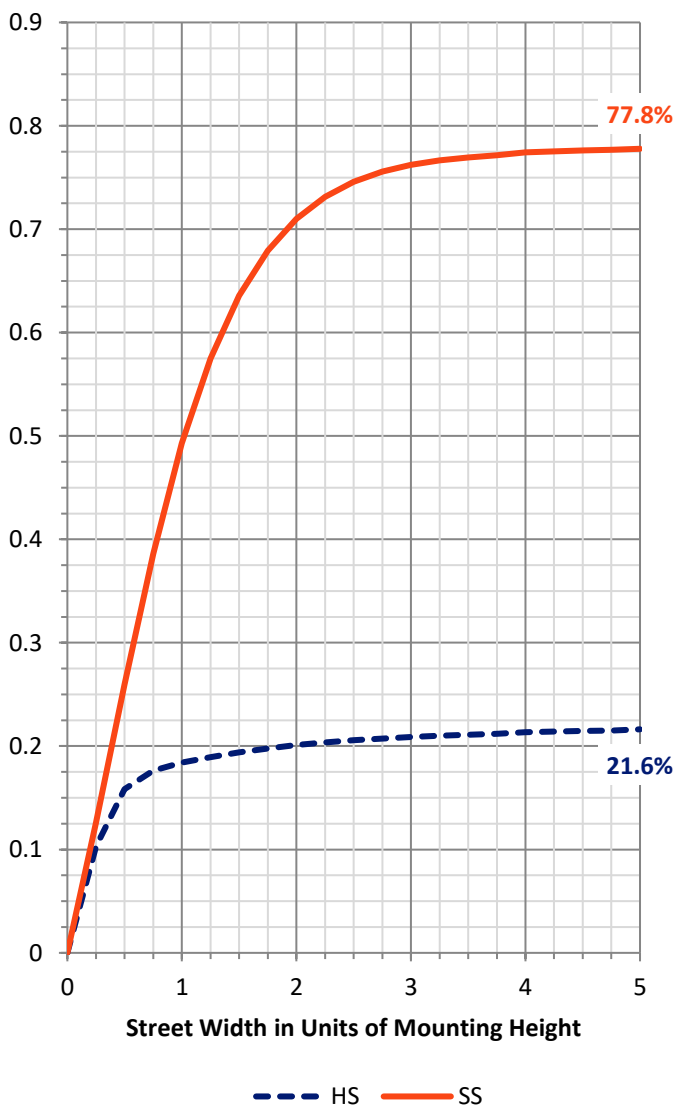
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23579.1	0.0	23579.1
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	83167.9	0.0	83167.9
	% Fixture	77.9	0.0	77.9
Total	Lumens	106747.0	0.0	106747.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1642.8	1.5
10°-20°	5132.7	4.8
20°-30°	8885.4	8.3
30°-40°	13056.1	12.2
40°-50°	17647.0	16.5
50°-60°	21700.5	20.3
60°-70°	23253.5	21.8
70°-80°	13714.7	12.8
80°-90°	1714.3	1.6
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°	106747.0	100.0
0°-180°	106747.0	100.0

Coefficient of Utilization

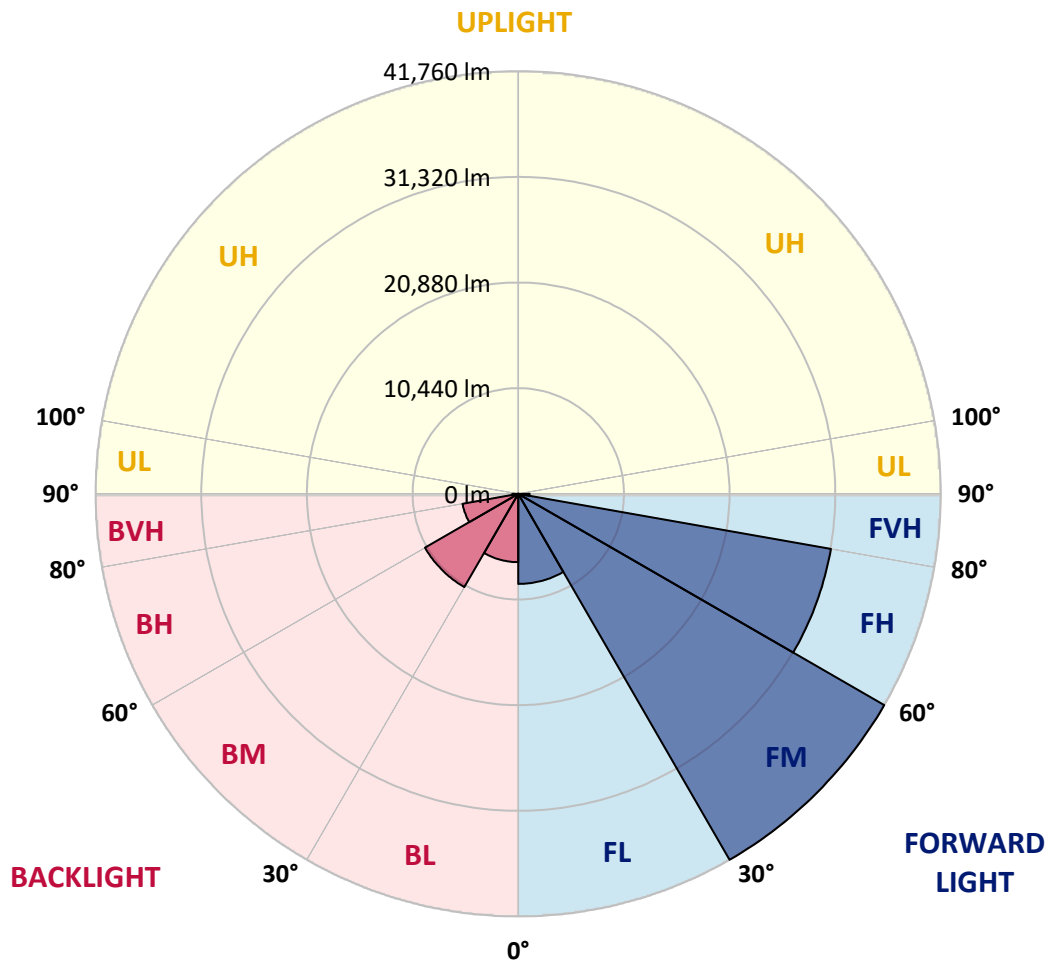


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 CATALOG NUMBER: CST-CA10-760-740-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8907.2	8.3			
FM (30°-60°)	41760.1	39.1			
FH (60°-80°)	31376.4	29.4			G5
FVH (80°-90°)	1124.2	1.1			G5
BL (0°-30°)	6753.7	6.3	B5		
BM (30°-60°)	10643.5	10.0	B5		
BH (60°-80°)	5591.7	5.2	B5		G5
BVH (80°-90°)	590.1	0.6			G4/750
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





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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	16488.4	16488.4	16488.4	16488.4	16488.4	16488.4	16488.4	16488.4	16488.4	16488.4	16488.4
2.5°	16177.1	16146.7	16133.6	16175.0	16205.4	16240.3	16290.3	16338.2	16344.7	16407.8	16490.5
5°	16373.0	16346.9	16318.6	16312.1	16301.2	16299.0	16312.1	16366.5	16379.5	16440.5	16618.9
7.5°	16808.3	16782.2	16729.9	16710.4	16651.6	16547.1	16497.1	16525.4	16531.9	16605.9	16827.9
10°	17517.8	17437.3	17374.2	17308.9	17123.9	16958.5	16836.6	16784.4	16773.5	16845.3	17102.1
12.5°	18364.4	18296.9	18227.3	18055.4	17820.3	17522.2	17306.7	17187.0	17178.3	17239.2	17432.9
15°	19258.9	19258.9	19211.0	19006.5	18775.8	18281.7	17948.7	17748.5	17761.6	17809.4	17898.7
17.5°	20414.6	20318.8	20297.1	20064.2	19807.4	19356.9	18828.0	18508.1	18523.3	18545.1	18477.6
20°	21589.8	21561.5	21528.9	21374.4	21141.5	20562.6	19968.4	19548.4	19550.6	19472.2	19171.9
22.5°	23143.8	23050.2	23074.1	22900.0	22584.4	21990.3	21306.9	20808.5	20841.2	20728.0	20183.9
25°	24686.8	24593.3	24543.2	24425.7	24153.6	23589.9	22778.1	22321.1	22281.9	22077.3	21287.3
27.5°	26227.7	26173.3	26214.7	26073.2	25851.2	25222.2	24477.9	23970.8	23996.9	23855.5	22678.0
30°	27823.0	27762.1	27942.7	27714.2	27577.1	26965.5	26251.7	25655.3	25677.1	25729.3	24408.3
32.5°	29026.6	29098.4	29414.0	29387.9	29361.7	28680.5	27929.7	27598.9	27631.5	27814.3	26462.8
35°	30188.8	30195.3	30639.3	30974.4	31115.9	30545.7	29766.5	29755.7	29969.0	30526.1	29326.9
37.5°	31152.9	31131.1	31723.1	32243.3	32630.7	32188.9	31760.1	32428.3	32622.0	33777.6	32210.6
40°	31679.6	31725.3	32487.0	33135.6	33897.3	33688.4	33734.1	35442.6	35919.2	36931.2	34367.4
42.5°	31309.6	31448.9	32635.0	33958.3	35107.4	35386.0	36304.4	38698.5	38900.9	39083.7	36489.4
45°	30689.3	30835.2	32149.7	34286.9	36106.4	37283.8	38861.7	41203.5	41425.5	41220.9	38254.5
47.5°	30042.9	30193.1	31657.8	34154.2	36933.4	39190.3	41136.0	43419.1	43702.0	43068.7	39952.1
50°	29222.4	29455.3	31057.1	33873.4	37603.7	41247.0	43288.5	45699.9	45830.5	44916.4	41238.3
52.5°	28212.6	28469.4	30201.8	33392.4	38128.3	42683.4	45467.1	48174.5	48161.4	47075.4	42709.6
55°	27150.5	27383.4	29168.0	32635.0	38422.1	43789.1	47208.2	50901.5	51058.2	50148.5	44041.5
57.5°	25790.3	26001.4	27947.1	31616.5	38117.4	44727.1	50028.8	54142.2	54220.5	52287.9	45101.4
60°	23988.2	24299.4	26253.8	30321.5	37242.5	45813.1	53136.7	57550.4	57646.2	54392.5	45782.6
62.5°	22009.9	22133.9	24125.3	28328.0	35969.3	46651.0	55291.3	60216.5	60077.2	56037.8	45987.2
65°	19598.4	19696.4	21420.1	25764.2	33603.5	46191.8	56063.9	61587.6	61415.7	57071.6	45358.2
67.5°	17073.8	17376.3	18730.1	22207.9	30301.9	44072.0	55411.0	61981.5	61894.5	57149.9	43856.5
70°	13796.2	13902.8	15125.9	18092.4	25283.2	39828.0	53234.6	60971.7	60904.2	55400.1	40790.0
72.5°	9728.5	9624.0	10218.2	12544.7	18262.1	31681.8	45451.8	55297.8	55411.0	49558.7	35520.9
75°	5164.6	5364.8	6289.8	7680.5	10353.1	20366.7	36237.0	45765.2	45726.0	41440.7	28077.7
77.5°	2751.0	2746.6	3382.1	3976.3	5068.8	9358.5	23901.2	34513.3	34704.8	32108.3	19278.5
80°	1321.1	1371.1	1410.3	1617.1	2526.8	4324.5	9998.4	20014.1	21320.0	19150.1	9158.3
82.5°	1057.7	1062.1	1066.4	1020.7	1044.7	1760.7	3852.2	5791.4	6000.3	4822.9	2953.4
85°	783.5	735.6	729.1	618.1	698.6	1057.7	1943.5	2472.4	2350.5	2287.4	1667.1
87.5°	315.6	296.0	287.3	269.9	269.9	398.3	685.6	894.5	892.3	814.0	559.3
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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 CATALOG NUMBER: CST-CA10-760-740-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16488.4	16488.4	16488.4	16488.4	16488.4	16488.4	16488.4	16488.4	16488.4	16488.4	16488.4
2.5°	16555.8	16634.2	16817.0	16973.7	17032.5	17176.1	17311.0	17389.4	17443.8	17476.4	17624.4
5°	16727.8	16884.5	17176.1	17395.9	17609.2	17874.7	18046.7	18155.5	18216.4	18251.2	18357.9
7.5°	16991.1	17150.0	17459.0	17796.4	17992.3	18209.9	18320.9	18399.2	18438.4	18427.5	18512.4
10°	17226.2	17382.9	17691.9	17950.9	18061.9	18186.0	18244.7	18262.1	18264.3	18273.0	18357.9
12.5°	17546.1	17641.9	17807.3	17977.0	17953.1	17957.4	18007.5	17985.7	17935.7	17927.0	17983.5
15°	17890.0	17892.1	17905.2	17868.2	17718.0	17652.7	17583.1	17524.3	17387.2	17378.5	17467.7
17.5°	18320.9	18218.6	17981.4	17728.9	17372.0	17126.0	16877.9	16775.6	16608.1	16575.4	16618.9
20°	18875.9	18662.6	18085.8	17459.0	16790.9	16351.3	16050.9	15748.4	15515.5	15458.9	15500.3
22.5°	19672.4	19252.4	18218.6	17171.8	16138.0	15387.1	14803.8	14440.4	14048.6	13848.4	13868.0
25°	20634.4	19977.1	18449.3	16808.3	15369.7	14285.9	13339.1	12610.0	12168.2	11874.4	11952.8
27.5°	21894.5	20991.3	18725.7	16449.2	14414.3	12877.7	11504.4	10516.3	10065.8	9926.5	9835.1
30°	23354.9	22216.6	19017.3	15918.1	13382.6	11134.4	9375.9	8553.2	8037.4	7954.7	7885.1
32.5°	25309.3	23759.7	19563.6	15341.4	12150.8	9391.1	7482.4	6535.7	6418.2	6350.7	6335.5
35°	27829.6	25781.6	20136.0	14592.7	10544.6	7347.5	5660.8	5149.3	5092.8	5166.8	5173.3
37.5°	30504.3	27975.4	20821.6	13748.3	8696.9	5482.3	4331.0	3976.3	4039.4	4270.1	4322.3
40°	32315.1	29420.5	21444.0	12601.3	6413.8	3982.8	3151.4	3075.2	3423.5	3719.5	3780.4
42.5°	34051.9	30515.2	21696.5	11084.4	4574.8	2835.8	2544.2	2805.4	3292.9	3617.2	3660.7
45°	35534.0	31788.4	21061.0	9264.9	3101.4	2370.1	2437.6	2798.8	3340.8	3699.9	3732.5
47.5°	36944.3	32828.7	20192.6	7299.6	2446.3	2280.9	2435.4	2857.6	3447.4	3786.9	3806.5
50°	38291.5	33620.9	18710.5	5554.2	2291.7	2239.5	2455.0	2949.0	3506.2	3719.5	3710.8
52.5°	39290.5	34030.1	17132.6	4483.4	2230.8	2206.9	2507.2	3064.4	3517.1	3645.5	3636.8
55°	40023.9	33951.8	16096.6	3671.6	2180.7	2193.8	2592.1	3151.4	3621.5	3815.2	3808.7
57.5°	40091.4	33597.0	14919.2	3101.4	2119.8	2191.6	2683.5	3273.3	4143.9	4500.8	4392.0
60°	40010.8	33009.4	13743.9	2722.7	2052.3	2204.7	2779.3	3638.9	4896.9	5177.6	5101.5
62.5°	39614.7	31914.6	11983.2	2472.4	1993.6	2252.6	2851.1	3928.4	4859.9	4892.5	4783.7
65°	38391.6	30449.9	9671.9	2219.9	1934.8	2285.2	2909.8	4004.6	4463.8	4359.3	4304.9
67.5°	35971.4	27178.8	7460.7	1989.2	1858.6	2278.7	3084.0	3895.7	4313.6	4237.4	4167.8
70°	32532.7	23461.5	5179.8	1752.0	1730.2	2237.3	3040.4	3932.7	4241.8	4124.3	4030.7
72.5°	27178.8	18405.8	3295.1	1558.3	1538.7	2139.4	2931.6	3908.8	4193.9	4141.7	4013.3
75°	20464.6	12847.3	2093.7	1347.2	1369.0	1960.9	2757.5	3780.4	4170.0	4006.7	3760.8
77.5°	12884.3	6342.0	1627.9	1144.8	1177.4	1691.1	2383.2	3301.6	4002.4	3904.5	3588.9
80°	4872.9	2574.7	1273.2	929.3	957.6	1314.5	1954.4	2716.1	3684.6	3845.7	3710.8
82.5°	2243.9	1610.5	955.4	746.5	757.4	957.6	1458.2	2011.0	3118.8	3530.1	3867.5
85°	1310.2	1055.6	637.7	498.4	518.0	565.9	820.5	1227.5	2021.9	2692.2	3012.1
87.5°	446.2	367.8	248.1	211.1	204.6	232.9	198.1	402.6	600.7	1057.7	1207.9
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)