

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: P510601

Luminaire Tested: **CST-CA10-760-730-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-12)
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-T4
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: 103209 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U0 - G5

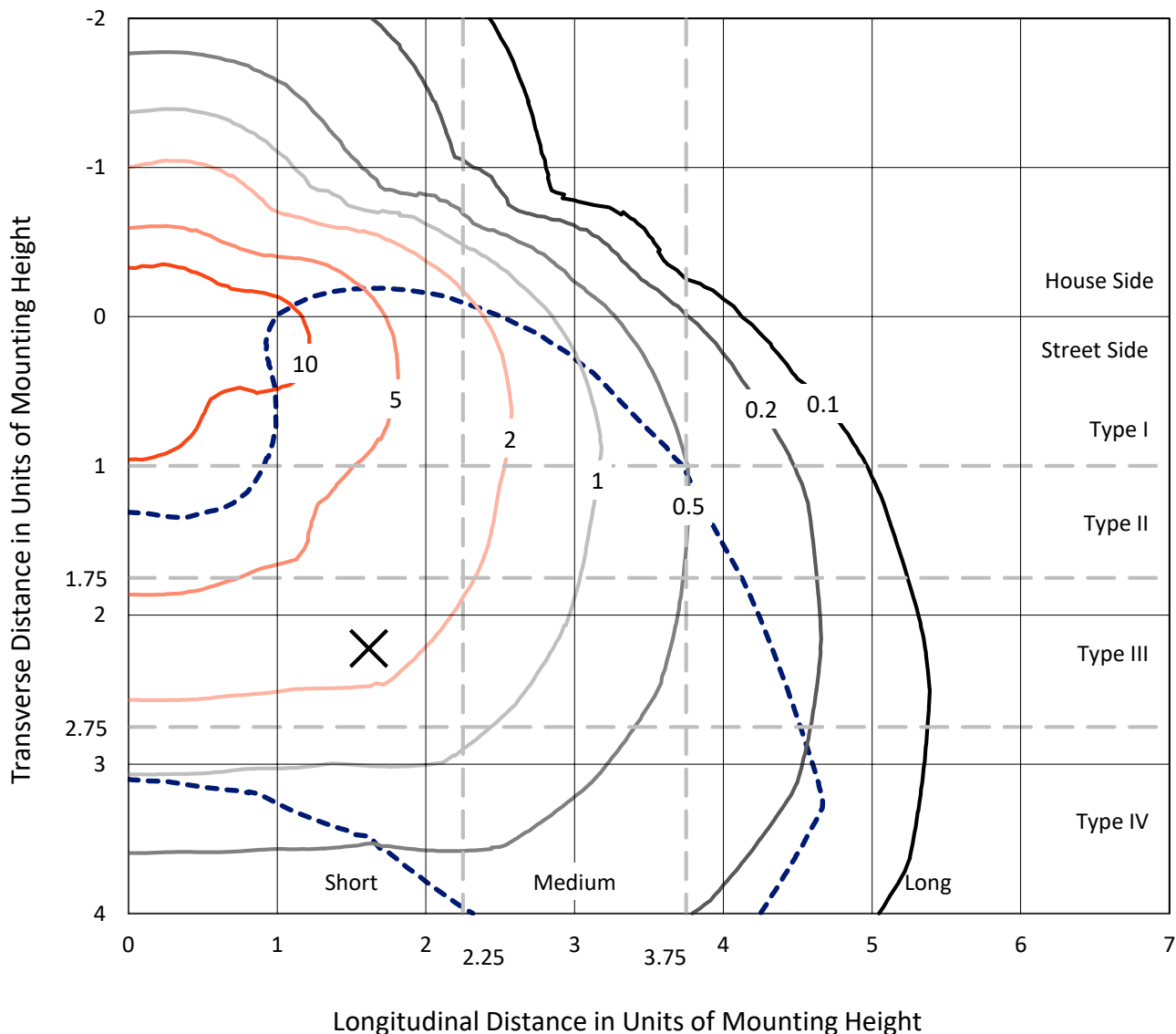
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

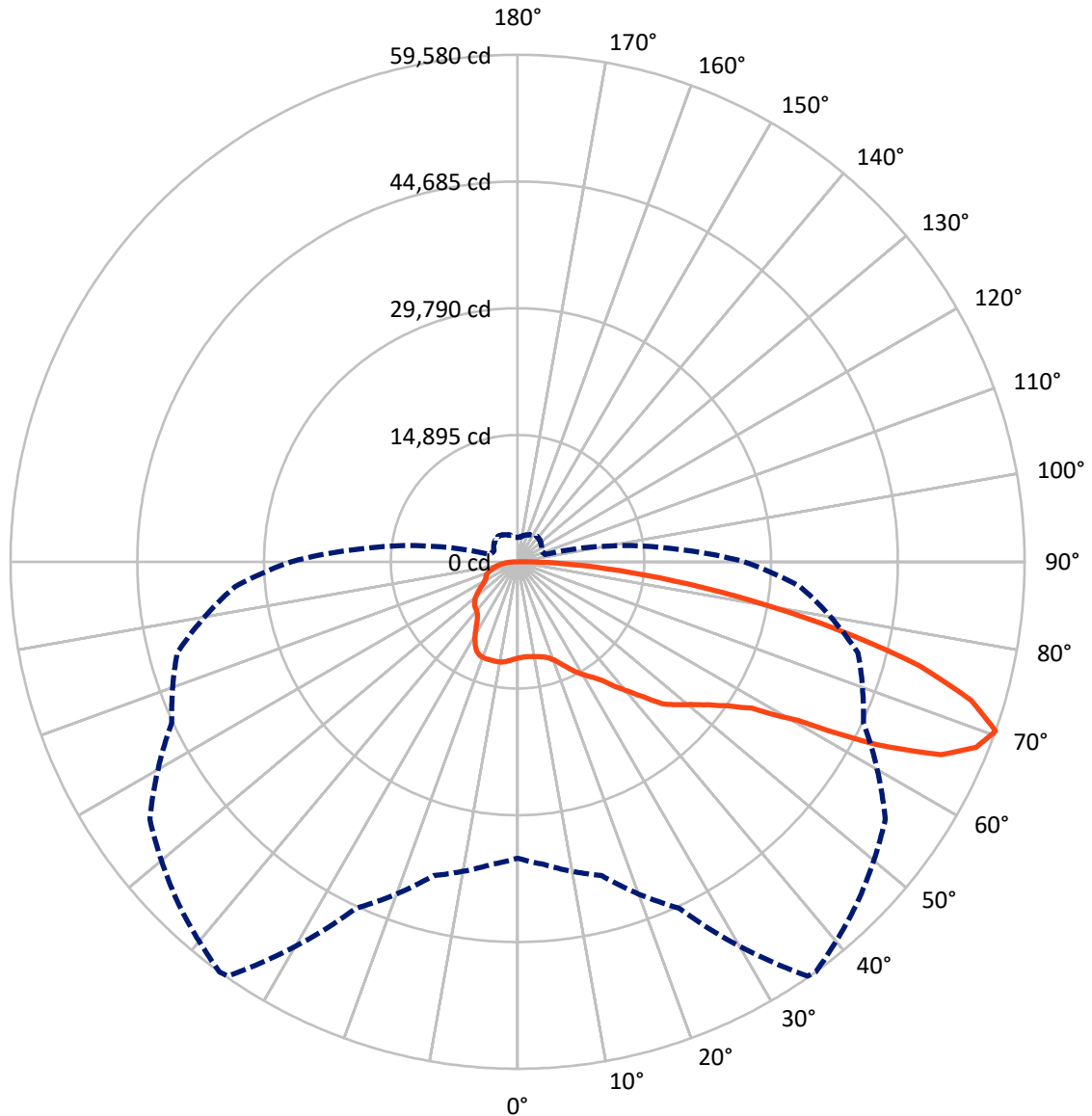
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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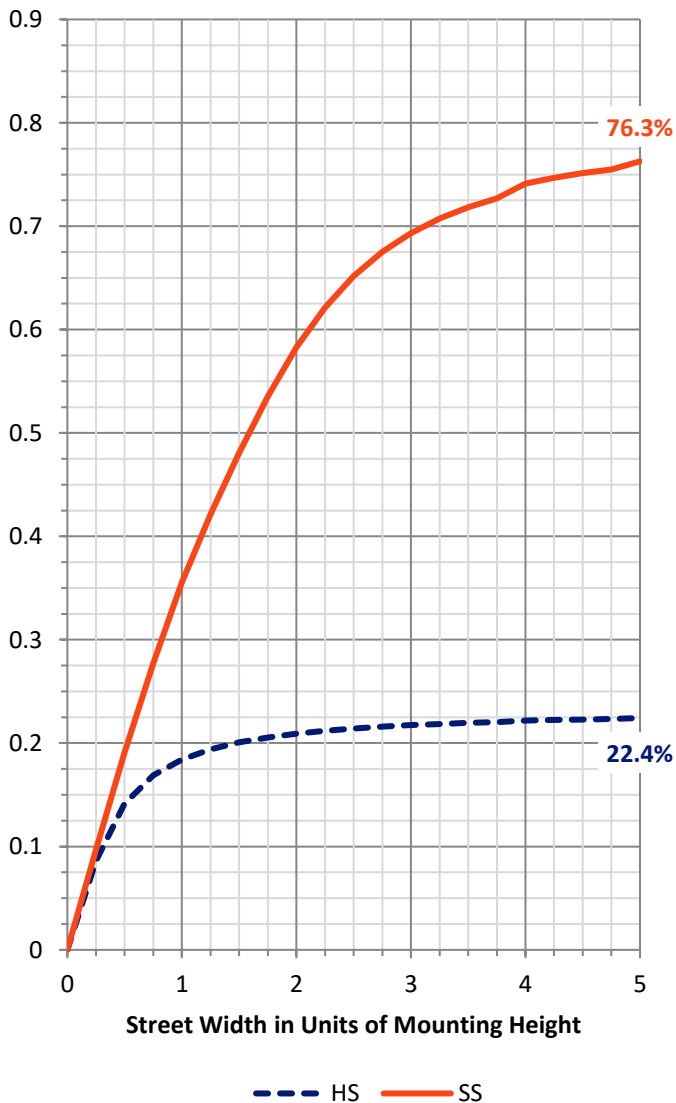
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23515.5	0.0	23515.5
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	79693.5	0.0	79693.5
	% Fixture	77.2	0.0	77.2
Total	Lumens	103209.0	0.0	103209.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1095.2	1.1
10°-20°	3385.8	3.3
20°-30°	6107.3	5.9
30°-40°	9459.0	9.2
40°-50°	14368.3	13.9
50°-60°	19915.3	19.3
60°-70°	25896.7	25.1
70°-80°	19124.5	18.5
80°-90°	3857.0	3.7
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°	103209.0	100.0
0°-180°	103209.0	100.0

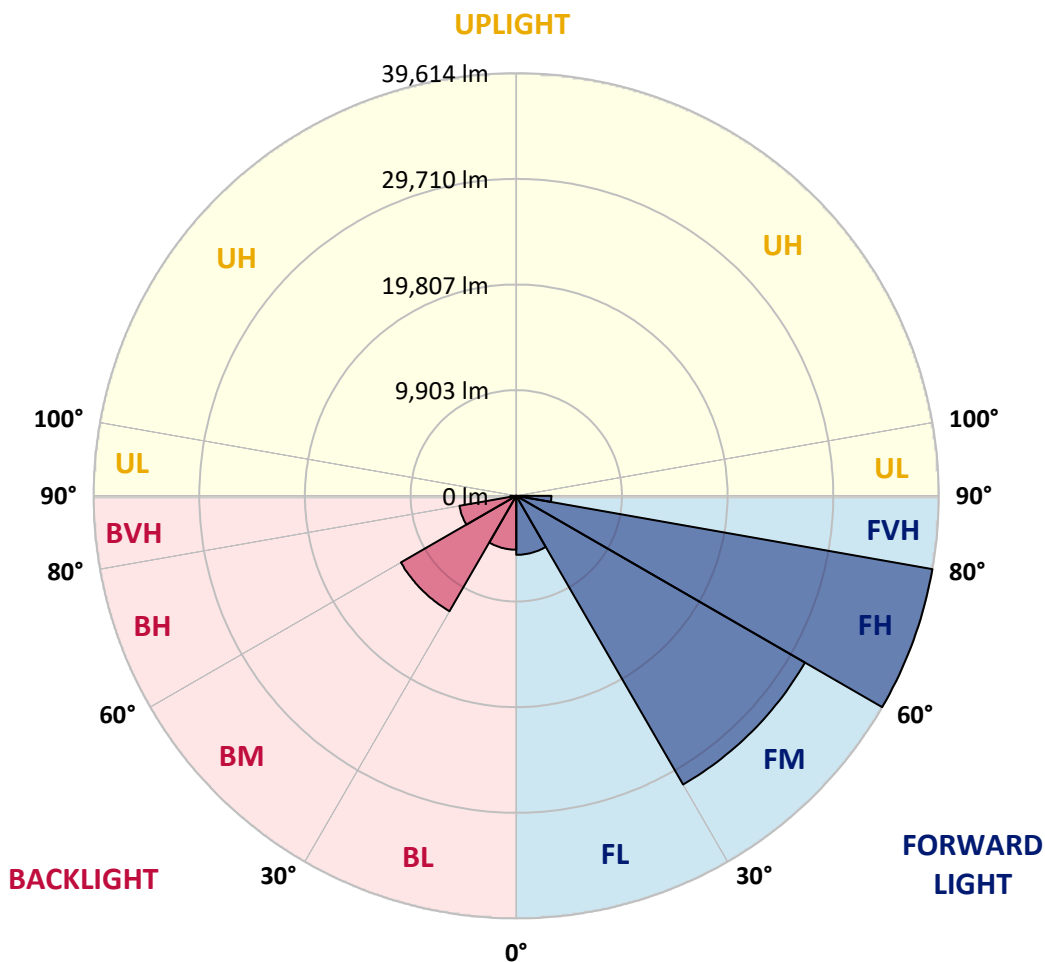


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5533.0	5.4			
FM (30°-60°)	31251.4	30.3			
FH (60°-80°)	39613.9	38.4			G5
FVH (80°-90°)	3295.1	3.2			G5
BL (0°-30°)	5055.2	4.9	B5		
BM (30°-60°)	12491.1	12.1	B5		
BH (60°-80°)	5407.3	5.2	B5		G5
BVH (80°-90°)	561.9	0.5			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	11304.5	11304.5	11304.5	11304.5	11304.5	11304.5	11304.5	11304.5	11304.5	11304.5	11304.5
2.5°	11236.1	11221.1	11212.6	11229.7	11236.1	11238.2	11242.5	11238.2	11227.5	11266.0	11313.0
5°	11238.2	11229.7	11212.6	11197.6	11197.6	11197.6	11199.8	11248.9	11270.3	11266.0	11323.7
7.5°	11255.3	11248.9	11216.8	11206.2	11231.8	11240.4	11283.1	11268.1	11291.6	11330.1	11379.3
10°	11257.4	11248.9	11221.1	11244.6	11317.3	11330.1	11349.3	11392.1	11400.6	11447.6	11496.8
12.5°	11278.8	11278.8	11289.5	11340.8	11417.7	11432.7	11505.3	11539.5	11590.8	11614.3	11674.2
15°	11392.1	11389.9	11415.6	11473.3	11597.2	11605.8	11695.5	11798.1	11836.6	11894.3	11990.4
17.5°	11661.3	11674.2	11676.3	11719.0	11866.5	11870.8	12018.2	12114.4	12202.0	12304.6	12524.7
20°	12300.3	12276.8	12251.1	12251.1	12308.8	12338.7	12452.0	12605.9	12785.4	12967.0	13225.6
22.5°	13103.8	13150.8	13056.8	13007.6	13035.4	13001.2	13086.7	13210.6	13420.0	13691.4	14018.4
25°	14063.3	14067.5	14061.1	13862.4	13800.4	13821.8	13892.3	14007.7	14285.5	14501.3	14975.7
27.5°	14999.2	14980.0	14911.6	14702.2	14642.4	14672.3	14670.2	14988.6	15272.8	15548.4	16106.2
30°	15849.8	15901.0	15779.2	15426.6	15433.0	15428.8	15527.1	15937.4	16456.6	16969.5	17542.2
32.5°	17349.9	17193.9	17029.4	16332.7	16204.5	16189.5	16247.2	16858.4	17627.7	18493.2	19181.3
35°	18762.4	18724.0	18561.5	17854.2	17112.7	17099.9	17020.8	17764.5	18845.8	20448.5	21307.5
37.5°	20207.0	20151.4	19991.2	19388.5	18651.3	18580.8	17916.2	18730.4	20192.0	22735.0	23959.5
40°	21929.4	21895.2	21647.3	20875.9	20119.4	20012.5	19322.3	19745.4	21890.9	25780.2	26643.5
42.5°	23440.2	23433.8	23149.6	22433.7	21790.5	21683.6	21096.0	21536.2	24252.2	28763.3	29271.9
45°	24549.3	24718.1	24730.9	24322.8	23878.3	23784.2	23628.3	24235.1	26983.3	31470.9	31396.1
47.5°	25485.3	25630.6	25478.8	25269.4	25117.7	25124.1	25365.6	26570.8	29680.1	33830.0	33248.8
50°	27049.5	26959.8	26171.2	26047.3	26239.6	26352.9	27053.8	29092.4	32768.0	36043.9	34911.3
52.5°	29306.1	28962.1	27414.9	27162.8	27891.5	27934.2	29049.7	31346.9	35853.7	37943.7	36432.9
55°	32394.0	32109.8	30361.8	29197.1	29564.7	29853.2	31423.8	33657.0	38373.2	39730.2	37603.9
57.5°	36958.5	36979.9	35554.6	33383.4	32133.3	32441.0	33667.6	35902.9	40454.6	41226.0	38334.7
60°	40617.0	41294.4	40869.2	39877.6	38082.6	37873.2	36939.3	38242.8	42232.5	42497.5	39033.5
62.5°	43153.6	43461.3	44923.0	45132.4	47183.8	47271.5	42798.8	40984.6	44185.7	43330.9	39181.0
65°	43025.3	43215.5	45525.6	48337.8	54398.2	54669.6	52051.8	45132.4	45523.4	43702.8	38751.4
67.5°	40029.3	40315.7	43251.9	48508.8	58242.6	58140.0	56479.6	50906.4	45963.6	43106.5	36704.2
70°	34825.9	35708.4	38174.5	44903.7	59443.5	59580.3	56520.2	52750.6	44828.9	41420.5	33291.5
72.5°	28703.5	28981.3	31310.6	38841.2	55932.5	55731.6	54203.7	50316.6	42777.5	38371.1	27318.8
75°	21828.9	21828.9	24649.7	30953.7	48032.2	48737.4	49331.5	45572.6	37896.7	31274.3	18602.1
77.5°	14490.7	15009.9	17281.5	23260.7	38020.6	38542.0	40593.5	38845.5	31028.5	22933.7	8496.5
80°	7686.6	7750.7	10186.8	15456.6	27194.8	28177.8	30998.6	29960.0	22318.3	10744.6	2147.6
82.5°	2688.3	2934.0	4479.0	8958.1	17918.3	18531.6	20563.9	17802.9	7883.2	2378.4	1188.1
85°	1335.6	1382.6	1972.4	4265.4	10088.5	10385.6	12013.9	6934.4	1269.3	1038.6	807.8
87.5°	643.2	658.2	756.5	1525.8	4385.0	4588.0	4857.3	2256.6	470.1	395.3	350.5
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°	11304.5	11304.5	11304.5	11304.5	11304.5	11304.5	11304.5	11304.5	11304.5	11304.5	11304.5
2.5°	11323.7	11342.9	11379.3	11389.9	11364.3	11411.3	11456.2	11496.8	11494.7	11509.6	11563.0
5°	11349.3	11389.9	11428.4	11496.8	11563.0	11601.5	11637.8	11672.0	11682.7	11714.8	11746.8
7.5°	11428.4	11469.0	11556.6	11676.3	11680.6	11776.7	11838.7	11849.4	11857.9	11857.9	11932.7
10°	11550.2	11625.0	11766.0	11849.4	11924.2	11892.1	11956.2	11915.6	11885.7	11898.5	11949.8
12.5°	11759.6	11825.9	12028.9	12120.8	12052.4	12039.6	11975.5	11883.6	11778.9	11768.2	11815.2
15°	12088.7	12212.7	12394.3	12481.9	12311.0	12159.2	11943.4	11755.4	11552.3	11477.6	11507.5
17.5°	12618.7	12768.3	12967.0	12907.2	12595.2	12296.0	11939.1	11541.7	11148.5	10874.9	10945.5
20°	13394.4	13505.5	13667.9	13426.5	12971.3	12477.6	11892.1	11263.9	10599.3	10101.4	10043.7
22.5°	14208.6	14377.4	14279.1	13832.5	13236.3	12548.2	11793.8	10860.0	9832.1	9208.1	9114.1
25°	15189.4	15245.0	14905.2	14232.1	13311.1	12437.0	11475.4	10270.2	9047.8	8460.2	8432.4
27.5°	16230.1	16104.1	15471.5	14415.9	13227.7	12108.0	10836.5	9338.5	8338.4	7819.1	7737.9
30°	17405.5	17112.7	15939.5	14435.1	12913.6	11466.9	10028.7	8609.8	7761.4	7240.0	7156.6
32.5°	18918.4	18228.2	16373.3	14236.4	12251.1	10526.6	9058.5	7987.9	7242.1	6718.6	6643.8
35°	20852.4	19687.7	16832.8	13877.3	11434.8	9586.4	8255.0	7460.1	6821.1	6190.7	6090.3
37.5°	23081.2	21724.2	17381.9	13424.3	10539.4	8759.4	7712.3	7124.6	6509.1	5795.4	5675.7
40°	25671.2	23762.9	18228.2	12883.7	9735.9	8163.1	7449.4	7009.2	6336.1	5592.4	5455.6
42.5°	27915.0	25919.1	19234.7	12302.4	8977.3	7667.4	7331.9	6932.3	6227.1	5440.7	5284.7
45°	29989.9	27699.1	20217.7	11597.2	8178.1	7327.6	7190.8	6739.9	6034.7	5252.6	5090.2
47.5°	31676.0	29137.3	21072.5	10949.7	7539.2	7015.6	6883.1	6374.5	5712.1	5026.1	4906.4
50°	32971.0	30218.6	21540.5	10434.7	6863.9	6660.9	6485.6	5962.1	5325.3	4733.3	4630.8
52.5°	34295.9	31302.0	21771.2	10460.4	6235.6	6133.0	5953.5	5504.8	5017.6	4562.4	4451.3
55°	35067.3	31746.5	21527.6	9838.5	5658.6	5539.0	5383.0	5150.0	4859.4	4455.5	4350.8
57.5°	35518.2	32022.2	20786.1	8024.2	4964.1	4850.9	4876.5	4857.3	4617.9	4192.7	4096.5
60°	35843.1	31423.8	19266.7	5898.0	4372.2	4286.7	4498.3	4429.9	4222.6	3891.4	3810.2
62.5°	35580.2	30284.8	16531.4	4434.2	3889.2	4070.9	4256.8	4130.7	3848.6	3547.3	3453.3
65°	33977.5	28049.6	12565.3	3562.3	3733.3	3983.3	4132.9	3929.9	3643.5	3286.6	3243.9
67.5°	31060.6	23997.9	7410.9	3265.3	3615.7	3880.7	4004.6	3735.4	3483.2	3141.3	3090.0
70°	26609.3	17965.3	3310.1	3040.9	3410.6	3673.4	3754.6	3500.3	3226.8	2906.3	2855.0
72.5°	19805.2	10832.2	2231.0	2808.0	3107.1	3340.1	3429.8	3160.5	2966.1	2820.8	2805.8
75°	10998.9	3761.0	2057.9	2543.0	2775.9	2985.3	3096.4	2906.3	2752.4	2553.7	2472.5
77.5°	3502.5	1598.4	1955.3	2273.7	2568.6	2741.7	2724.6	2438.3	2389.1	2147.6	2126.3
80°	1397.6	1393.3	1807.9	1861.3	2192.5	2337.8	2299.4	1938.2	2002.3	1861.3	1805.7
82.5°	1096.3	1275.8	1448.9	1421.1	1705.3	1876.2	1822.8	1423.2	1609.1	1478.8	1352.7
85°	833.4	1117.6	929.6	925.3	1190.3	1393.3	1427.5	1094.1	1096.3	998.0	889.0
87.5°	429.5	412.4	356.9	354.7	397.5	566.3	694.5	621.9	491.5	369.7	354.7
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)