

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: P510439

Luminaire Tested: **CST-CA10-210-750-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510439
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-CA10-210-750-U-T3
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35614 lumens
Efficiency: N/A
Efficacy: 167.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

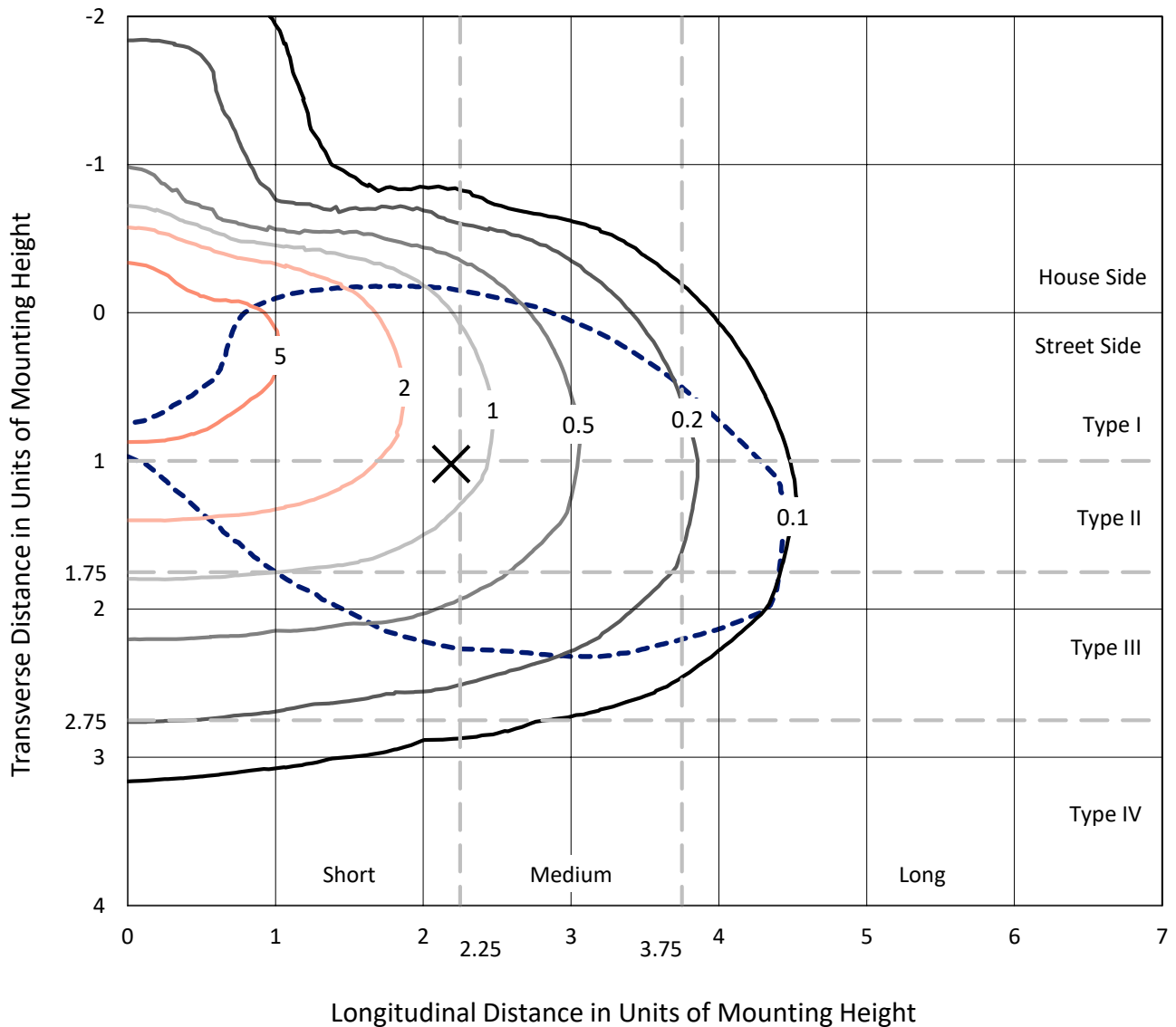
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

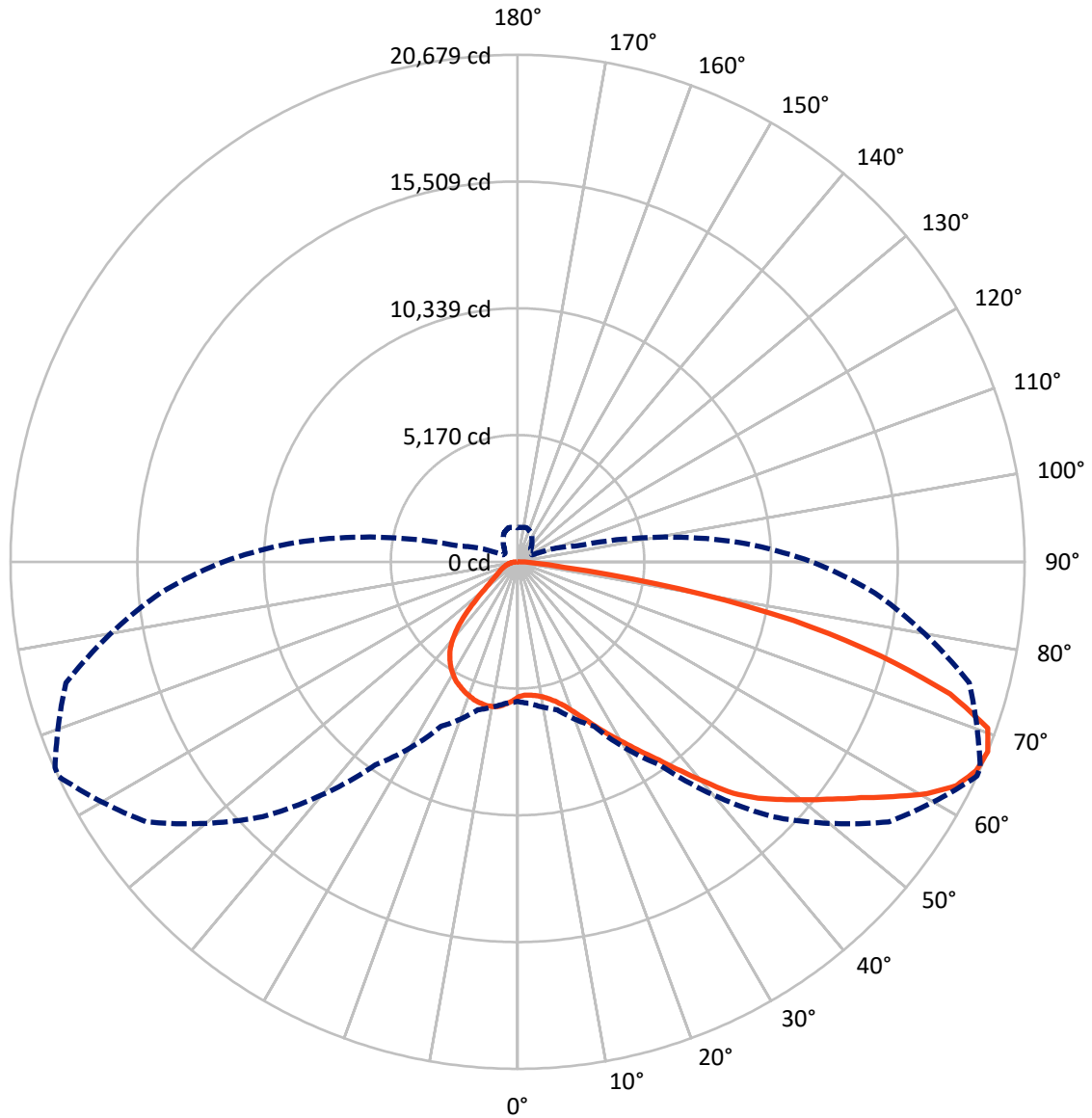
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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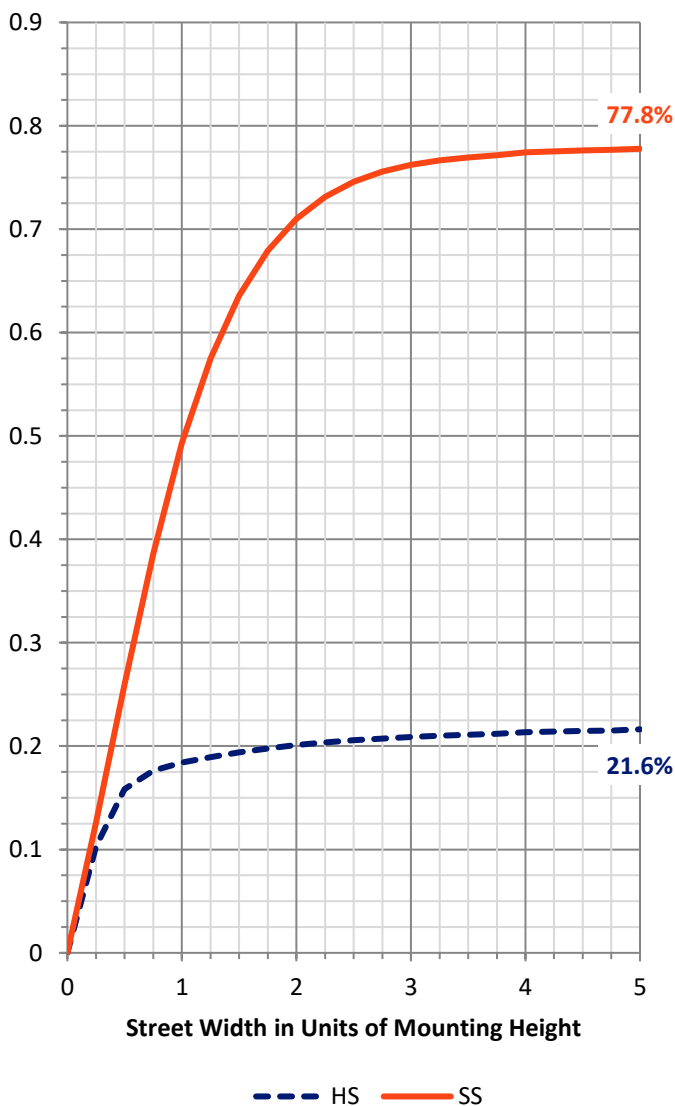
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7866.7	0.0	7866.7
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	27747.3	0.0	27747.3
	% Fixture	77.9	0.0	77.9
Total	Lumens	35614.0	0.0	35614.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.1	1.5
10°-20°	1712.4	4.8
20°-30°	2964.4	8.3
30°-40°	4355.9	12.2
40°-50°	5887.6	16.5
50°-60°	7240.0	20.3
60°-70°	7758.1	21.8
70°-80°	4575.6	12.8
80°-90°	571.9	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°	35614.0	100.0
0°-180°	35614.0	100.0

Coefficient of Utilization

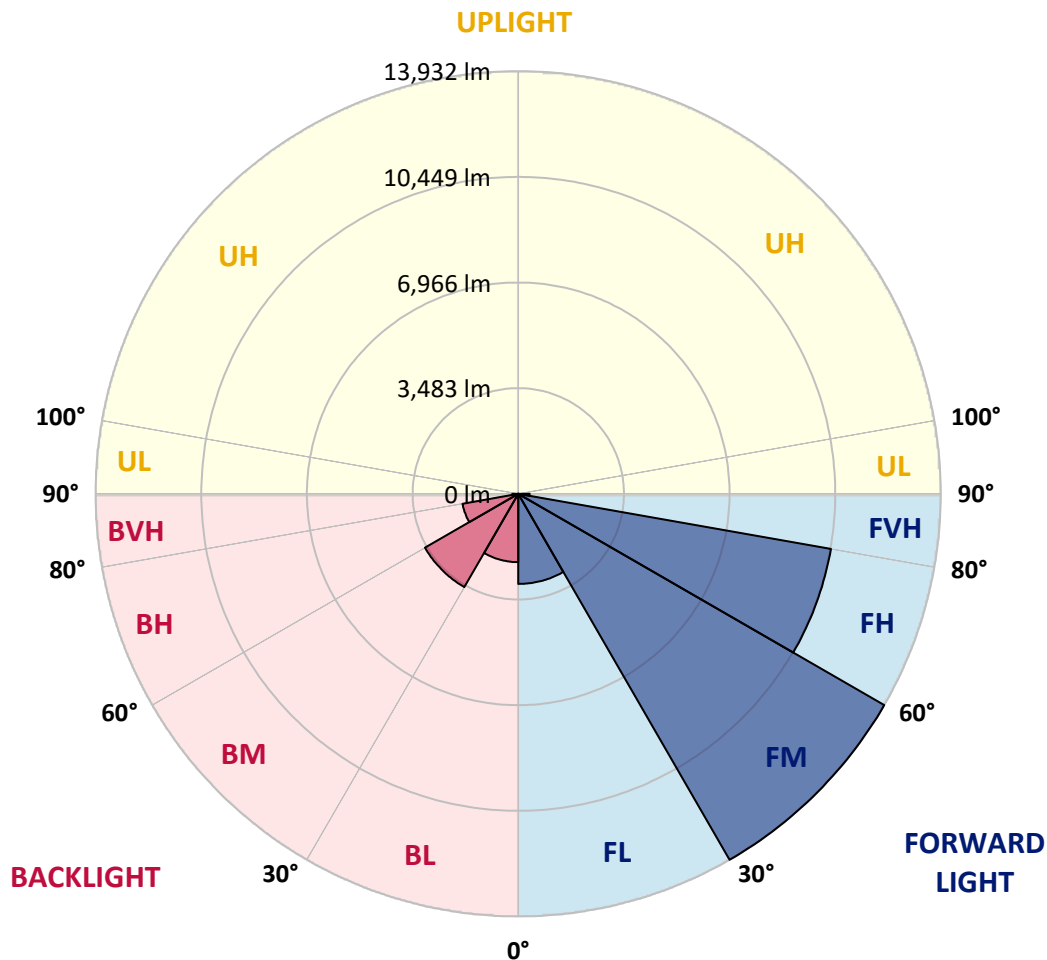


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2971.7	8.3			
FM (30°-60°)	13932.4	39.1			
FH (60°-80°)	10468.1	29.4			G4/12000
FVH (80°-90°)	375.0	1.1			G3/500
BL (0°-30°)	2253.2	6.3	B3/2500		
BM (30°-60°)	3551.0	10.0	B3/5000		
BH (60°-80°)	1865.6	5.2	B3/2500		G3/2500
BVH (80°-90°)	196.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5501.0	5501.0	5501.0	5501.0	5501.0	5501.0	5501.0	5501.0	5501.0	5501.0	5501.0
2.5°	5397.2	5387.0	5382.7	5396.5	5406.6	5418.2	5434.9	5450.9	5453.1	5474.1	5501.7
5°	5462.5	5453.8	5444.4	5442.2	5438.6	5437.8	5442.2	5460.4	5464.7	5485.0	5544.6
7.5°	5607.8	5599.0	5581.6	5575.1	5555.5	5520.6	5503.9	5513.4	5515.5	5540.2	5614.3
10°	5844.5	5817.6	5796.5	5774.8	5713.0	5657.9	5617.2	5599.8	5596.1	5620.1	5705.8
12.5°	6126.9	6104.4	6081.2	6023.8	5945.4	5845.9	5774.0	5734.1	5731.2	5751.5	5816.1
15°	6425.4	6425.4	6409.4	6341.1	6264.2	6099.3	5988.2	5921.4	5925.8	5941.8	5971.5
17.5°	6810.9	6779.0	6771.7	6694.0	6608.3	6458.0	6281.6	6174.8	6179.9	6187.2	6164.7
20°	7203.0	7193.6	7182.7	7131.1	7053.4	6860.3	6662.1	6521.9	6522.7	6496.5	6396.3
22.5°	7721.5	7690.2	7698.2	7640.1	7534.8	7336.6	7108.6	6942.3	6953.2	6915.5	6733.9
25°	8236.3	8205.0	8188.3	8149.1	8058.4	7870.3	7599.5	7447.0	7433.9	7365.7	7102.1
27.5°	8750.4	8732.2	8746.0	8698.8	8624.7	8414.9	8166.6	7997.4	8006.1	7958.9	7566.1
30°	9282.6	9262.3	9322.5	9246.3	9200.5	8996.5	8758.3	8559.4	8566.7	8584.1	8143.3
32.5°	9684.1	9708.1	9813.4	9804.7	9796.0	9568.7	9318.2	9207.8	9218.7	9279.7	8828.8
35°	10071.9	10074.1	10222.2	10334.0	10381.2	10191.0	9931.0	9927.4	9998.5	10184.4	9784.3
37.5°	10393.5	10386.3	10583.8	10757.3	10886.6	10739.2	10596.1	10819.0	10883.7	11269.2	10746.4
40°	10569.3	10584.5	10838.7	11055.0	11309.2	11239.5	11254.7	11824.7	11983.7	12321.4	11466.0
42.5°	10445.8	10492.3	10888.0	11329.5	11712.9	11805.8	12112.2	12911.0	12978.5	13039.5	12174.0
45°	10238.9	10287.5	10726.1	11439.1	12046.2	12439.0	12965.4	13746.7	13820.8	13752.5	12762.8
47.5°	10023.2	10073.3	10562.0	11394.9	12322.1	13075.1	13724.2	14485.9	14580.3	14369.0	13329.2
50°	9749.5	9827.2	10361.6	11301.2	12545.7	13761.2	14442.3	15246.9	15290.4	14985.5	13758.3
52.5°	9412.6	9498.3	10076.2	11140.7	12720.7	14240.5	15169.2	16072.5	16068.1	15705.8	14249.2
55°	9058.2	9135.9	9731.3	10888.0	12818.8	14609.3	15750.1	16982.3	17034.6	16731.0	14693.6
57.5°	8604.4	8674.8	9324.0	10548.2	12717.1	14922.3	16691.1	18063.5	18089.6	17444.8	15047.2
60°	8003.2	8107.0	8759.1	10116.2	12425.2	15284.6	17728.0	19200.5	19232.5	18147.0	15274.5
62.5°	7343.2	7384.5	8048.9	9451.1	12000.4	15564.2	18446.8	20090.0	20043.6	18695.9	15342.7
65°	6538.6	6571.3	7146.4	8595.7	11211.1	15411.0	18704.6	20547.5	20490.1	19040.8	15132.9
67.5°	5696.3	5797.3	6248.9	7409.2	10109.6	14703.7	18486.8	20678.9	20649.9	19066.9	14631.9
70°	4602.8	4638.4	5046.5	6036.2	8435.2	13287.8	17760.7	20342.0	20319.5	18483.1	13608.8
72.5°	3245.7	3210.9	3409.1	4185.3	6092.8	10570.0	15164.1	18449.0	18486.8	16534.3	11850.8
75°	1723.1	1789.9	2098.5	2562.4	3454.1	6794.9	12089.7	15268.7	15255.6	13825.9	9367.6
77.5°	917.8	916.4	1128.4	1326.6	1691.1	3122.3	7974.1	11514.7	11578.6	10712.3	6431.9
80°	440.7	457.4	470.5	539.5	843.0	1442.8	3335.8	6677.3	7113.0	6389.0	3055.5
82.5°	352.9	354.3	355.8	340.5	348.5	587.4	1285.2	1932.2	2001.9	1609.1	985.3
85°	261.4	245.4	243.2	206.2	233.1	352.9	648.4	824.9	784.2	763.1	556.2
87.5°	105.3	98.8	95.8	90.0	90.0	132.9	228.7	298.4	297.7	271.6	186.6
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°	5501.0	5501.0	5501.0	5501.0	5501.0	5501.0	5501.0	5501.0	5501.0	5501.0	5501.0
2.5°	5523.5	5549.7	5610.7	5662.9	5682.5	5730.5	5775.5	5801.6	5819.8	5830.7	5880.0
5°	5580.9	5633.2	5730.5	5803.8	5875.0	5963.5	6020.9	6057.2	6077.5	6089.2	6124.7
7.5°	5668.7	5721.8	5824.9	5937.4	6002.8	6075.4	6112.4	6138.5	6151.6	6148.0	6176.3
10°	5747.2	5799.4	5902.6	5989.0	6026.0	6067.4	6087.0	6092.8	6093.5	6096.4	6124.7
12.5°	5853.9	5885.9	5941.0	5997.7	5989.7	5991.1	6007.8	6000.6	5983.9	5981.0	5999.9
15°	5968.6	5969.4	5973.7	5961.4	5911.3	5889.5	5866.2	5846.6	5800.9	5798.0	5827.8
17.5°	6112.4	6078.3	5999.1	5914.9	5795.8	5713.8	5631.0	5596.9	5540.9	5530.1	5544.6
20°	6297.6	6226.4	6034.0	5824.9	5601.9	5455.3	5355.1	5254.1	5176.4	5157.6	5171.4
22.5°	6563.3	6423.2	6078.3	5729.0	5384.1	5133.6	4939.0	4817.7	4687.0	4620.2	4626.8
25°	6884.3	6665.0	6155.2	5607.8	5127.8	4766.2	4450.3	4207.1	4059.7	3961.7	3987.8
27.5°	7304.7	7003.3	6247.5	5487.9	4809.0	4296.4	3838.2	3508.6	3358.3	3311.8	3281.3
30°	7791.9	7412.1	6344.8	5310.8	4464.9	3714.8	3128.1	2853.6	2681.5	2653.9	2630.7
32.5°	8443.9	7926.9	6527.0	5118.4	4053.9	3133.2	2496.4	2180.5	2141.3	2118.8	2113.7
35°	9284.8	8601.5	6718.0	4868.6	3518.0	2451.3	1888.6	1718.0	1699.1	1723.8	1726.0
37.5°	10177.2	9333.4	6946.7	4586.8	2901.5	1829.1	1445.0	1326.6	1347.7	1424.6	1442.1
40°	10781.3	9815.6	7154.4	4204.2	2139.8	1328.8	1051.4	1026.0	1142.2	1240.9	1261.3
42.5°	11360.7	10180.8	7238.6	3698.1	1526.3	946.1	848.8	936.0	1098.6	1206.8	1221.3
45°	11855.2	10605.6	7026.6	3091.1	1034.7	790.7	813.2	933.8	1114.6	1234.4	1245.3
47.5°	12325.7	10952.7	6736.9	2435.4	816.1	761.0	812.5	953.4	1150.2	1263.4	1270.0
50°	12775.2	11217.0	6242.4	1853.0	764.6	747.2	819.1	983.9	1169.8	1240.9	1238.0
52.5°	13108.5	11353.5	5715.9	1495.8	744.3	736.3	836.5	1022.4	1173.4	1216.2	1213.3
55°	13353.2	11327.3	5370.3	1224.9	727.6	731.9	864.8	1051.4	1208.2	1272.9	1270.7
57.5°	13375.7	11209.0	4977.5	1034.7	707.2	731.2	895.3	1092.1	1382.5	1501.6	1465.3
60°	13348.8	11012.9	4585.4	908.4	684.7	735.5	927.2	1214.1	1633.7	1727.4	1702.0
62.5°	13216.7	10647.7	3998.0	824.9	665.1	751.5	951.2	1310.6	1621.4	1632.3	1596.0
65°	12808.6	10159.0	3226.8	740.6	645.5	762.4	970.8	1336.0	1489.3	1454.4	1436.2
67.5°	12001.2	9067.7	2489.1	663.7	620.1	760.2	1028.9	1299.7	1439.2	1413.7	1390.5
70°	10853.9	7827.5	1728.1	584.5	577.3	746.4	1014.4	1312.1	1415.2	1376.0	1344.8
72.5°	9067.7	6140.7	1099.3	519.9	513.4	713.8	978.1	1304.1	1399.2	1381.8	1338.9
75°	6827.6	4286.2	698.5	449.5	456.7	654.2	920.0	1261.3	1391.2	1336.8	1254.7
77.5°	4298.6	2115.9	543.1	381.9	392.8	564.2	795.1	1101.5	1335.3	1302.6	1197.4
80°	1625.8	859.0	424.8	310.0	319.5	438.6	652.0	906.2	1229.3	1283.0	1238.0
82.5°	748.6	537.3	318.8	249.1	252.7	319.5	486.5	670.9	1040.5	1177.8	1290.3
85°	437.1	352.2	212.8	166.3	172.8	188.8	273.7	409.5	674.6	898.2	1004.9
87.5°	148.9	122.7	82.8	70.4	68.3	77.7	66.1	134.3	200.4	352.9	403.0
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)