

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: McGRAW-EDISON

Report Number: P232703

Luminaire Tested: **CTN-6-3-D-E1-T3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-171-19)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: CTN-6-3-D-E1-T3-7050
Description: CELESTEON HIGH MAST LUMINAIRE
(6) 70 CRI, 5000K LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31559 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B3 - U0 - G4

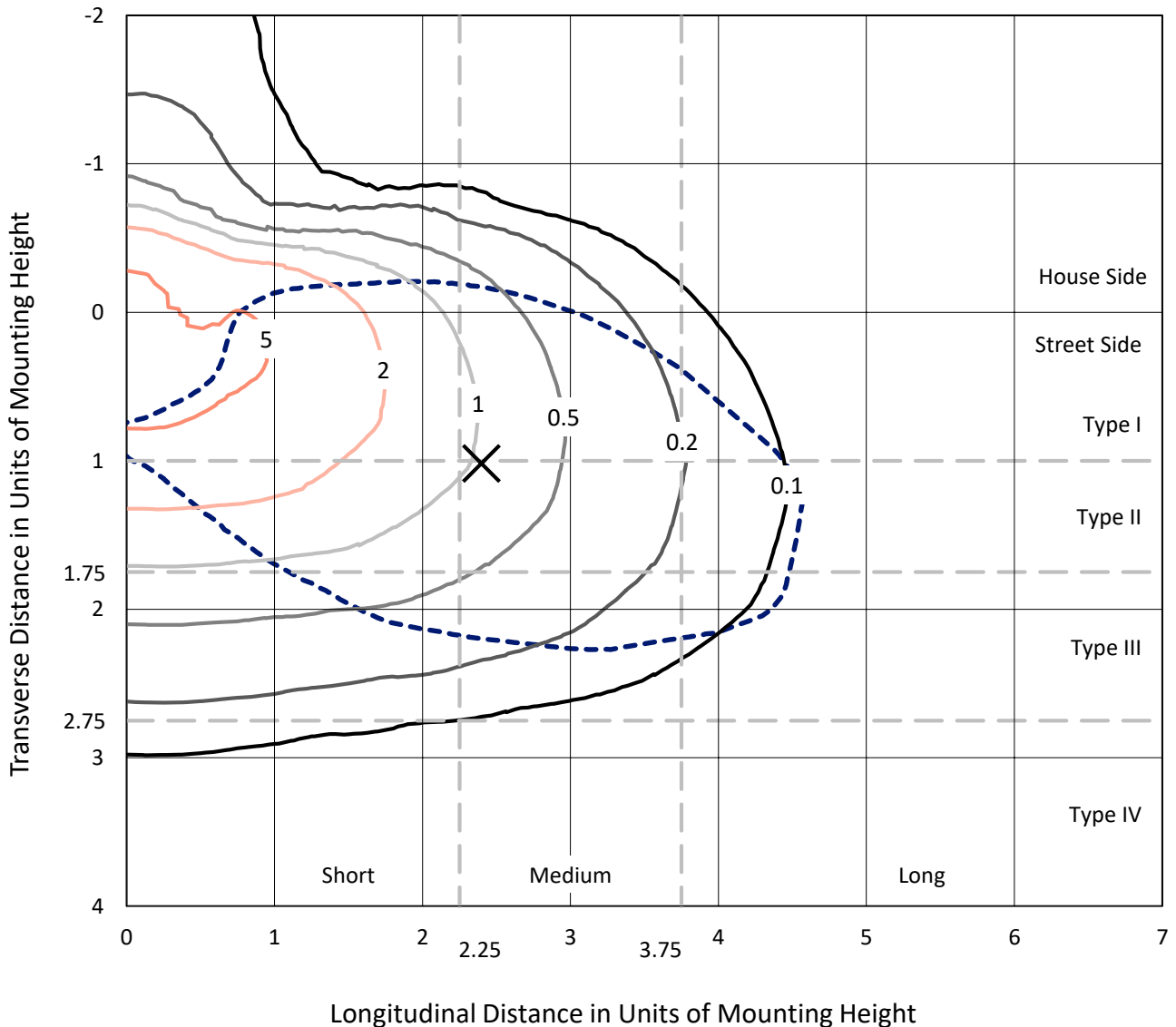
Input Watts (W): 234
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

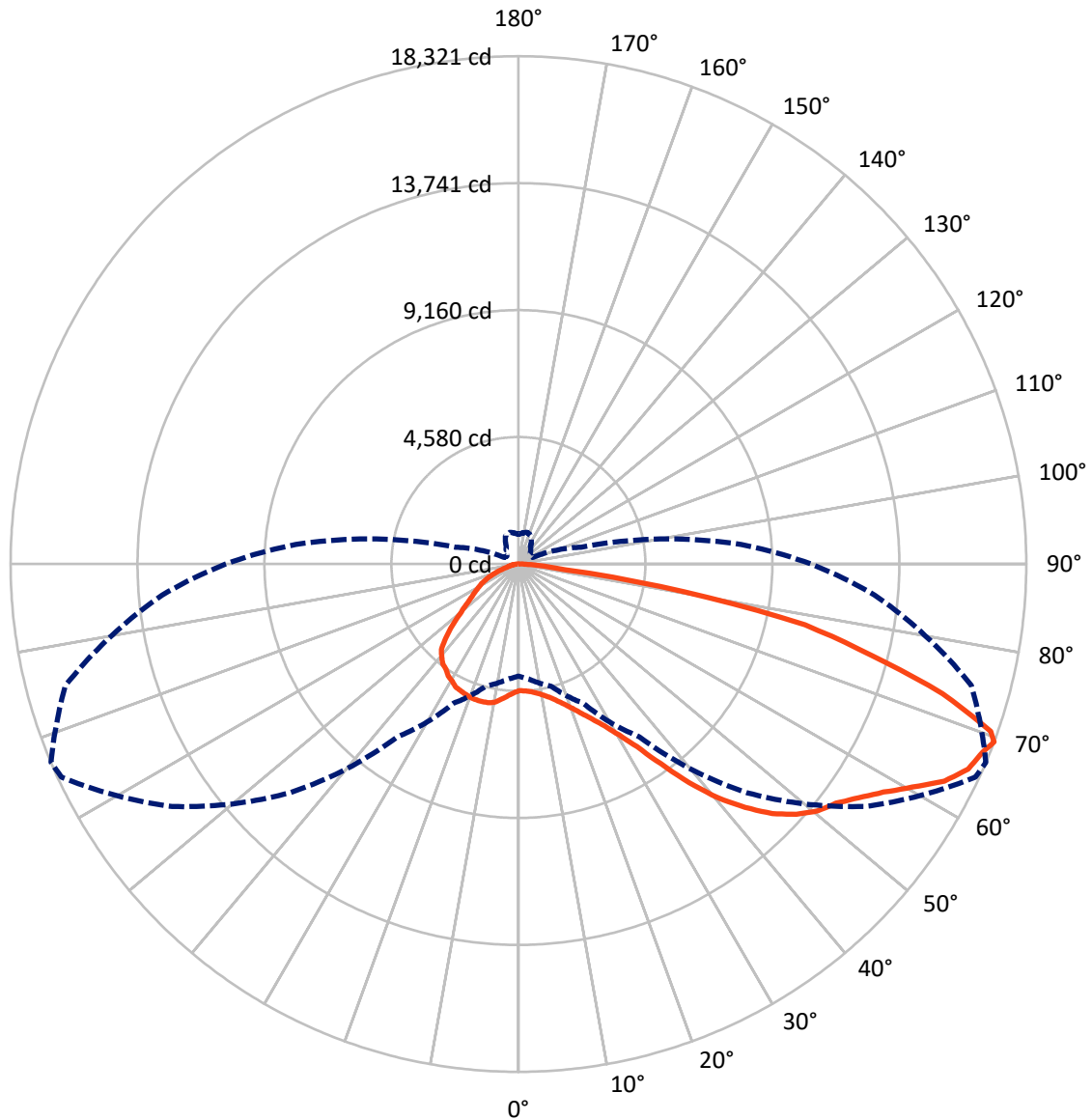
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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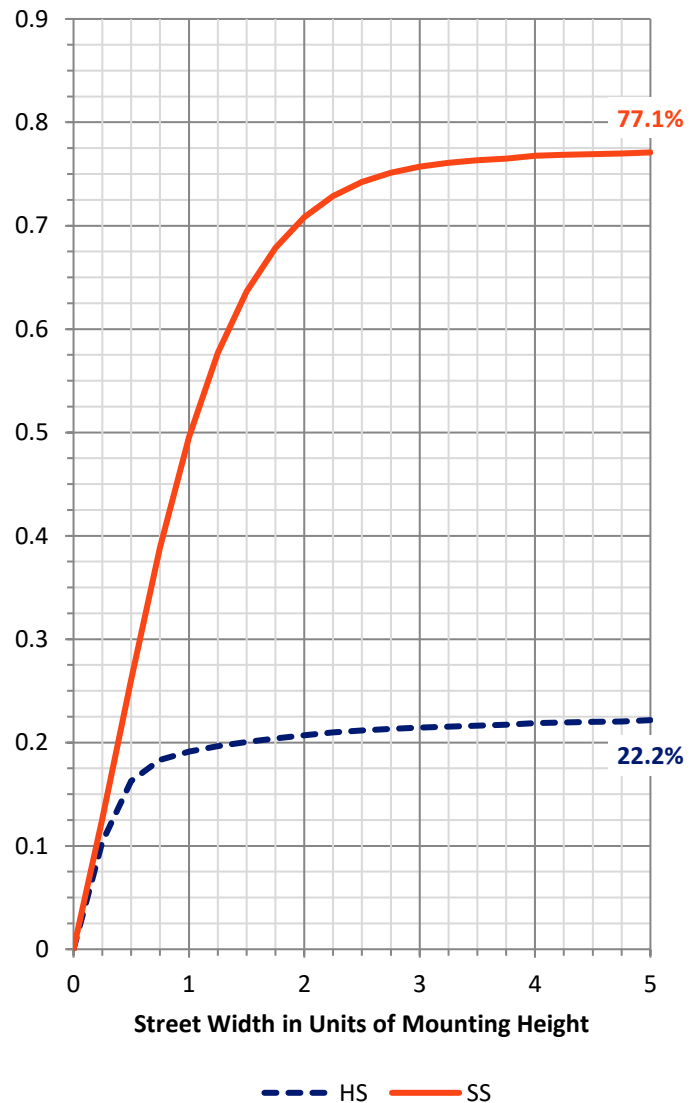
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7179.0	0.0	7179.0
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	24380.0	0.0	24380.0
	% Fixture	77.3	0.0	77.3
Total	Lumens	31559.0	0.0	31559.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.6	1.5
10°-20°	1489.0	4.7
20°-30°	2589.3	8.2
30°-40°	3900.5	12.4
40°-50°	5387.0	17.1
50°-60°	6429.4	20.4
60°-70°	6771.3	21.5
70°-80°	3972.1	12.6
80°-90°	556.7	1.8
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°	31559.0	100.0
0°-180°	31559.0	100.0



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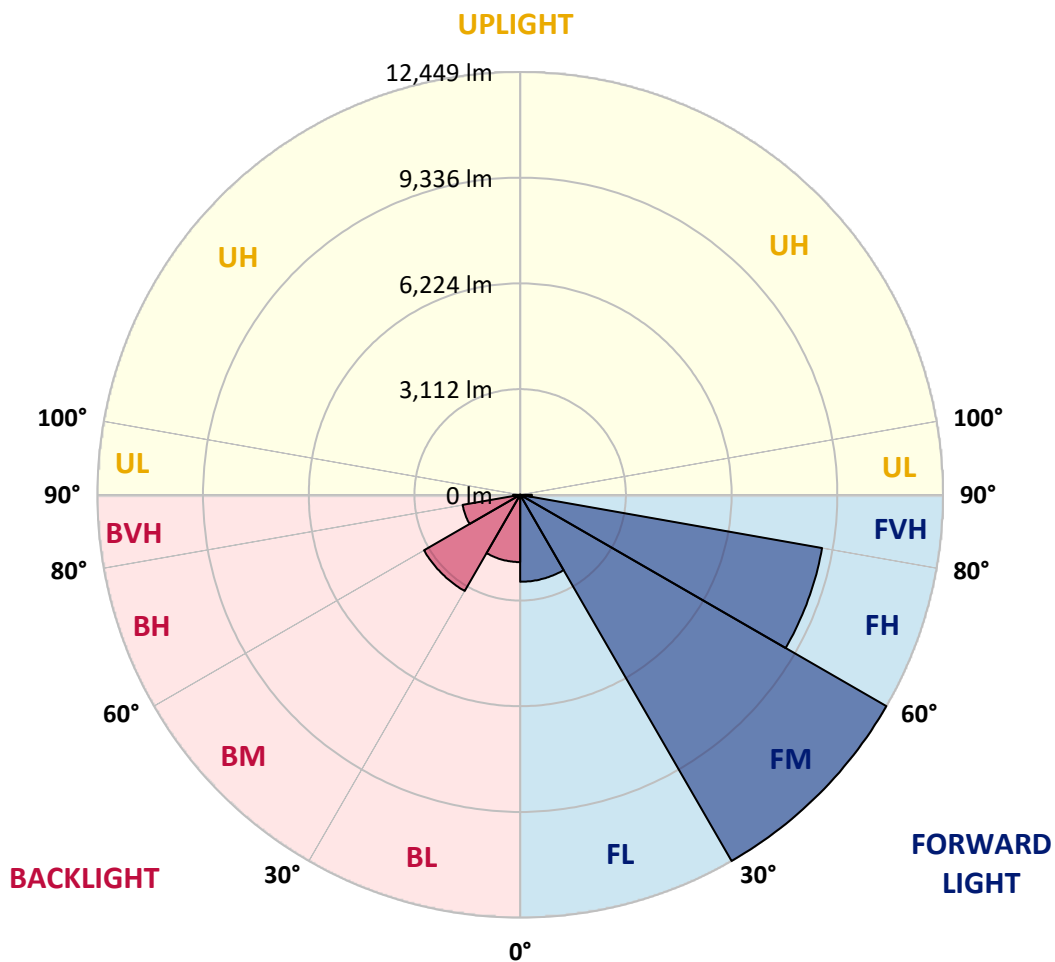
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2561.0	8.1			
FM (30°-60°)	12448.5	39.4			
FH (60°-80°)	9024.5	28.6			G4/12000
FVH (80°-90°)	346.0	1.1			G3/500
BL (0°-30°)	1981.0	6.3	B3/2500		
BM (30°-60°)	3268.4	10.4	B3/5000		
BH (60°-80°)	1718.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	210.7	0.7			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4567.0	4567.0	4567.0	4567.0	4567.0	4567.0	4567.0	4567.0	4567.0	4567.0	4567.0
2.5°	4586.2	4592.3	4586.2	4576.1	4542.8	4557.9	4544.8	4587.2	4584.2	4568.0	4597.3
5°	4693.3	4700.4	4687.3	4679.2	4627.7	4634.7	4606.4	4629.7	4621.6	4594.3	4639.8
7.5°	4868.1	4875.1	4859.0	4847.9	4775.1	4759.0	4707.5	4714.5	4699.4	4655.9	4708.5
10°	5103.4	5109.5	5082.2	5055.0	4962.0	4922.6	4836.8	4822.6	4800.4	4758.0	4811.5
12.5°	5357.0	5366.1	5332.8	5297.4	5189.3	5124.7	5002.4	4959.0	4931.7	4880.2	4938.8
15°	5628.7	5639.9	5605.5	5565.1	5445.9	5345.9	5193.4	5127.7	5101.4	5036.8	5073.1
17.5°	5985.3	5982.3	5954.0	5898.5	5756.0	5609.5	5421.7	5323.7	5305.5	5242.9	5251.9
20°	6398.5	6384.4	6358.1	6281.3	6126.8	5944.9	5699.5	5575.2	5557.0	5504.5	5448.9
22.5°	6847.0	6832.9	6807.6	6709.6	6557.1	6318.7	6024.7	5878.3	5854.0	5788.4	5695.4
25°	7288.5	7273.3	7259.2	7166.2	7017.7	6747.0	6393.5	6206.6	6195.5	6128.8	5958.1
27.5°	7747.1	7738.0	7742.0	7662.2	7513.7	7232.9	6831.9	6628.8	6609.6	6524.8	6292.4
30°	8218.9	8220.9	8259.3	8174.4	8038.0	7755.2	7357.2	7150.1	7153.1	7077.3	6737.9
32.5°	8641.1	8643.1	8729.0	8686.6	8611.8	8330.0	7964.3	7818.8	7848.1	7842.1	7494.6
35°	8946.2	8959.3	9151.3	9208.8	9180.5	8935.1	8714.9	8750.2	8843.1	9105.8	8741.1
37.5°	9233.1	9238.1	9483.6	9616.9	9722.0	9574.5	9530.1	9865.5	10011.9	10375.6	9836.2
40°	9315.9	9385.6	9695.7	9881.6	10126.1	10198.8	10424.1	10920.1	11092.8	11312.0	10573.6
42.5°	9240.1	9339.1	9728.1	10169.5	10508.9	10869.6	11282.7	11844.4	12001.0	12136.3	11279.7
45°	9081.5	9157.3	9561.4	10222.0	10837.2	11552.5	12029.3	12702.0	12843.5	12755.6	11831.3
47.5°	8870.4	8928.0	9378.5	10138.2	11099.9	12164.6	12713.2	13390.0	13493.0	13288.0	12206.0
50°	8577.5	8646.2	9149.2	10023.0	11292.8	12676.8	13262.7	13907.2	13994.1	13619.3	12573.8
52.5°	8215.8	8301.7	8886.6	9827.1	11437.3	13058.6	13646.6	14251.7	14339.6	14096.1	12864.7
55°	7805.7	7924.9	8527.0	9588.7	11447.4	13261.7	13886.0	14756.8	14882.0	14619.4	13119.3
57.5°	7389.5	7466.3	8103.7	9224.0	11257.5	13329.4	14172.9	15344.7	15527.5	15126.5	13397.1
60°	6881.4	6955.1	7586.5	8736.1	10878.7	13433.4	14746.7	16186.2	16331.6	15717.4	13633.4
62.5°	6280.3	6364.2	6936.9	8068.3	10318.0	13475.8	15331.6	17081.2	17247.9	16254.9	13769.8
65°	5516.6	5609.5	6131.8	7260.2	9516.9	13174.8	15584.1	17742.9	17828.7	16667.0	13711.2
67.5°	4682.2	4759.0	5175.2	6255.1	8408.8	12389.9	15451.8	17987.3	18074.2	16946.8	13360.7
69°	4043.8	4162.0	4562.0	5538.8	7611.7	11671.7	15249.7	18188.4	18320.7	16915.5	12900.0
70°	3532.6	3664.9	4026.6	4907.5	6934.9	10926.1	14873.9	18035.8	18073.2	16613.5	12484.9
72.5°	2232.5	2275.9	2440.6	3026.5	4879.2	8493.6	13016.2	16011.4	16001.3	14822.4	10898.9
75°	1103.1	1159.7	1471.8	1699.1	2404.2	5463.1	10245.3	13150.6	13152.6	12510.1	8960.3
77.5°	662.7	686.9	766.7	1095.0	1373.8	2451.7	6954.1	10411.0	10570.6	10181.6	6448.0
80°	456.6	444.5	467.7	538.4	739.5	1289.0	2858.8	5885.3	6058.1	5587.3	2746.7
82.5°	359.6	349.5	356.6	374.8	352.6	597.0	1209.2	1759.7	1708.2	1506.2	1055.6
85°	251.5	231.3	244.5	237.4	210.1	350.5	587.9	731.4	726.3	750.6	574.8
87.5°	79.8	70.7	72.7	70.7	58.6	124.3	211.1	284.9	262.6	266.7	202.0
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°	4567.0	4567.0	4567.0	4567.0	4567.0	4567.0	4567.0	4567.0	4567.0	4567.0	4567.0
2.5°	4604.4	4596.3	4605.4	4652.9	4641.8	4683.2	4693.3	4761.0	4764.0	4758.0	4788.3
5°	4661.0	4669.1	4703.4	4779.2	4804.4	4893.3	4933.7	5016.6	5024.7	5027.7	5057.0
7.5°	4742.8	4757.0	4830.7	4929.7	4977.2	5093.3	5154.0	5256.0	5263.1	5274.2	5307.5
10°	4864.0	4884.2	4942.8	5078.2	5093.3	5185.3	5240.8	5328.7	5322.7	5337.8	5368.1
12.5°	4986.3	4997.4	5041.8	5134.8	5124.7	5214.6	5238.8	5296.4	5292.4	5291.3	5313.6
15°	5117.6	5098.4	5104.5	5139.8	5102.4	5158.0	5140.8	5183.3	5127.7	5105.5	5120.6
17.5°	5257.0	5210.5	5150.9	5124.7	5053.9	5044.9	4986.3	4966.1	4927.7	4915.6	4927.7
20°	5422.7	5323.7	5179.2	5103.4	4948.9	4869.1	4757.0	4691.3	4602.4	4609.5	4626.6
22.5°	5591.4	5452.0	5233.8	5030.7	4812.5	4650.9	4427.6	4368.0	4251.9	4217.5	4251.9
25°	5798.5	5611.6	5261.0	4966.1	4606.4	4318.5	4092.3	3881.1	3793.2	3707.4	3739.7
27.5°	6070.2	5817.6	5360.0	4886.3	4373.1	3989.2	3629.6	3356.8	3247.7	3155.8	3161.9
30°	6422.7	6093.4	5397.4	4718.6	4092.3	3537.7	3085.1	2782.0	2645.7	2608.3	2592.1
32.5°	7074.3	6537.9	5464.1	4596.3	3742.7	3046.7	2491.1	2165.8	2080.0	2096.1	2148.7
35°	8229.0	7468.3	5666.1	4340.8	3356.8	2511.3	1935.5	1684.0	1698.1	1727.4	1721.4
37.5°	9225.0	8307.7	6002.5	4160.9	2885.1	1902.2	1461.7	1328.4	1413.2	1470.8	1468.8
40°	9901.8	8919.9	6443.0	3824.6	2289.1	1355.7	1075.8	1002.1	1110.2	1233.4	1254.6
42.5°	10573.6	9476.5	6656.1	3526.6	1607.2	956.6	778.9	798.0	936.4	1052.6	1073.8
45°	11056.5	9880.6	6750.0	2995.2	1026.3	732.4	679.9	750.6	900.1	992.0	1002.1
47.5°	11411.0	10184.7	6648.0	2423.4	755.6	669.8	670.8	760.7	911.2	1015.2	1019.3
50°	11724.2	10398.8	6236.9	1890.1	679.9	648.5	683.9	790.0	943.5	1048.6	1045.5
52.5°	11938.3	10461.5	5737.8	1548.6	658.6	636.4	695.0	817.2	953.6	1024.3	1018.3
55°	12080.8	10367.5	5354.0	1274.9	640.5	635.4	713.2	851.6	963.7	992.0	977.9
57.5°	12168.7	10177.6	5029.7	1096.0	625.3	635.4	733.4	864.7	1001.1	1052.6	1036.4
60°	12142.4	10092.7	4590.3	949.6	604.1	637.4	744.5	883.9	1151.6	1272.8	1275.9
62.5°	12089.9	9927.1	4160.9	833.4	578.8	649.5	758.6	995.0	1414.3	1415.3	1364.8
65°	11840.4	9428.0	3536.7	728.3	552.6	652.6	761.7	1177.9	1586.0	1452.6	1387.0
67.5°	11153.4	8697.7	2806.3	630.4	523.3	634.4	758.6	1152.6	1280.9	1146.6	1113.2
69°	10554.4	8064.3	2344.6	571.8	502.1	616.2	761.7	1105.1	1186.0	1106.2	1075.8
70°	10118.0	7551.1	1992.1	536.4	482.9	607.1	761.7	1088.0	1172.8	1097.1	1067.8
72.5°	8684.5	5931.8	1194.0	447.5	427.3	571.8	754.6	1061.7	1182.9	1118.3	1079.9
75°	6653.1	4314.5	695.0	367.7	359.6	513.2	717.2	1045.5	1217.3	1119.3	1035.4
77.5°	4263.0	1991.1	518.2	299.0	291.9	444.5	669.8	993.0	1250.6	1173.8	1067.8
80°	1480.9	903.1	386.9	236.4	226.3	363.7	586.9	895.0	1191.0	1199.1	1119.3
82.5°	812.2	595.0	273.8	175.8	166.7	228.3	456.6	771.8	1102.1	1187.0	1193.0
85°	446.5	335.4	179.8	113.1	127.3	196.0	316.2	600.0	886.9	1031.4	1076.9
87.5°	180.8	121.2	70.7	44.4	52.5	77.8	107.1	307.1	535.4	691.0	760.7
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)