

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: P510630

Luminaire Tested: **CTN-CA10-760-760-U-T4-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: CTN-CA10-760-760-U-T4-HSS
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 93963 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

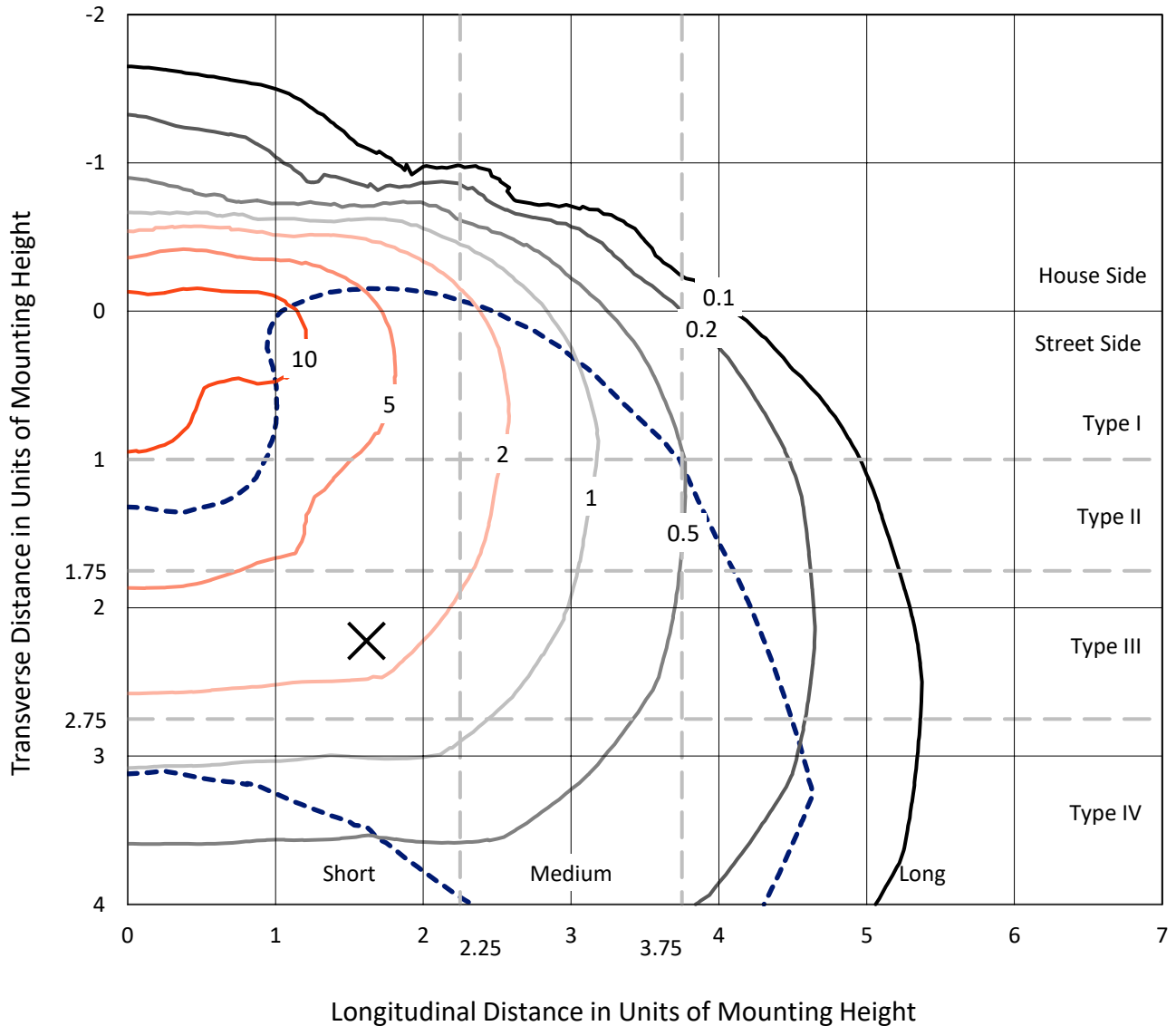
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

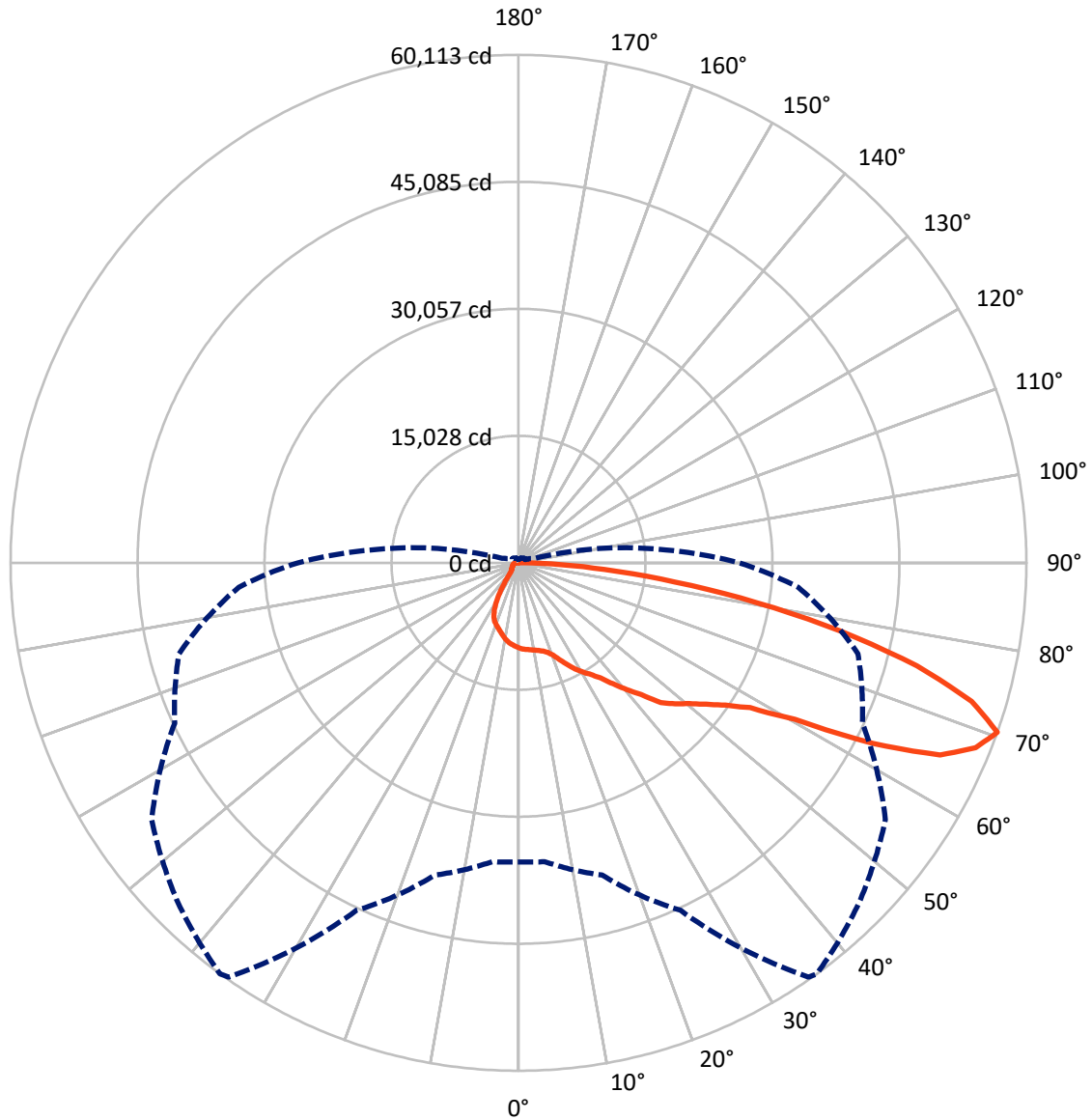
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.8 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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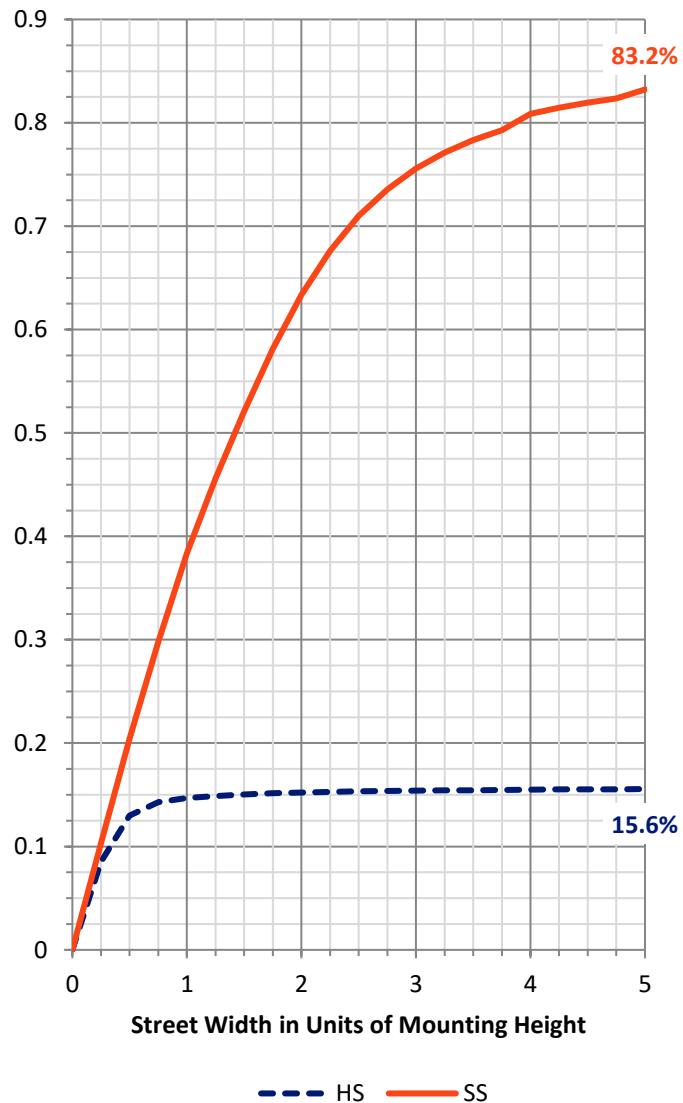
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14828.1	0.0	14828.1
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	79135.0	0.0	79135.0
	% Fixture	84.2	0.0	84.2
Total	Lumens	93963.0	0.0	93963.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	954.8	1.0
10°-20°	2839.5	3.0
20°-30°	5106.2	5.4
30°-40°	8080.5	8.6
40°-50°	12628.3	13.4
50°-60°	18134.0	19.3
60°-70°	24597.1	26.2
70°-80°	18204.5	19.4
80°-90°	3418.2	3.6
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°	93963.0	100.0
0°-180°	93963.0	100.0

Coefficient of Utilization

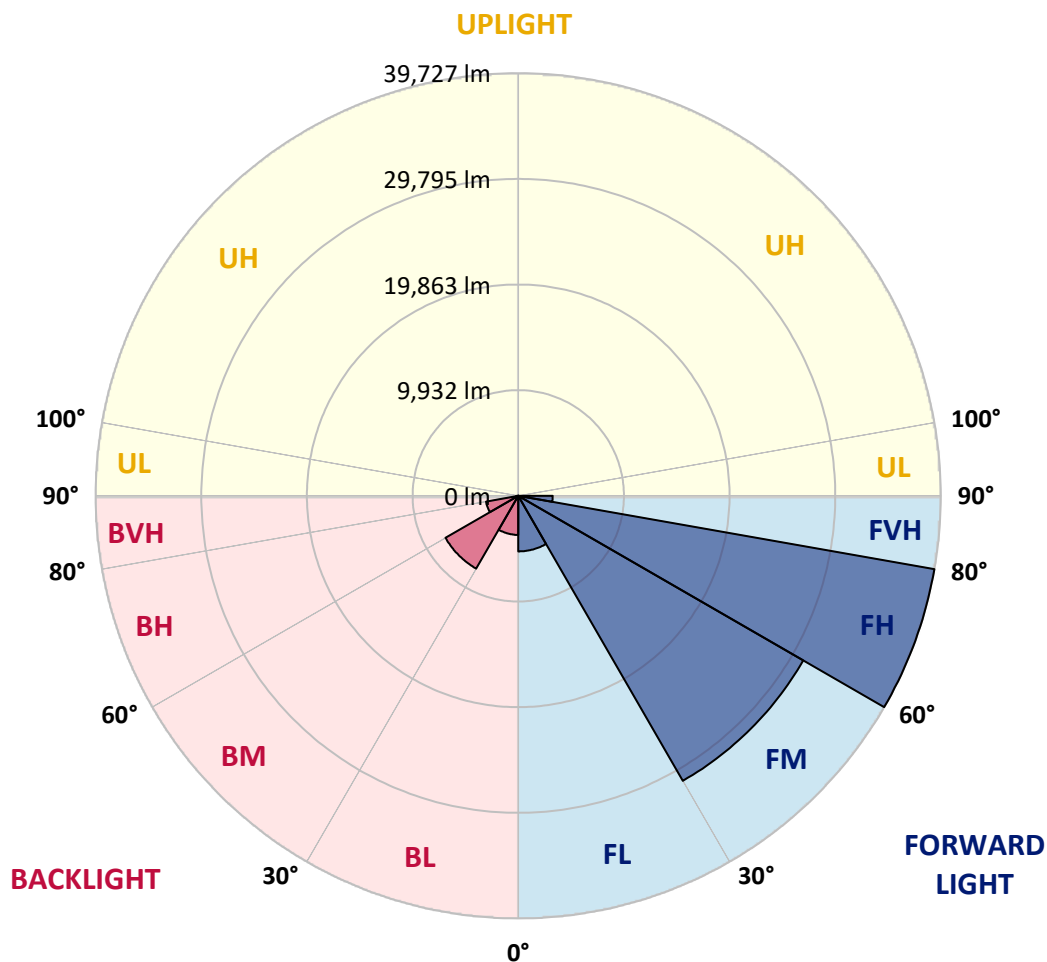


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5226.2	5.6			
FM (30°-60°)	30941.2	32.9			
FH (60°-80°)	39726.6	42.3			G5
FVH (80°-90°)	3241.0	3.4			G5
BL (0°-30°)	3674.3	3.9	B4/5000		
BM (30°-60°)	7901.5	8.4	B4/8500		
BH (60°-80°)	3074.9	3.3	B4/5000		G4/5000
BVH (80°-90°)	177.3	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	10067.7	10067.7	10067.7	10067.7	10067.7	10067.7	10067.7	10067.7	10067.7	10067.7	10067.7
2.5°	10271.6	10249.9	10232.5	10239.0	10226.0	10234.7	10215.2	10191.3	10134.9	10111.1	10100.2
5°	10362.7	10356.2	10338.8	10325.8	10302.0	10293.3	10271.6	10291.1	10260.7	10182.6	10137.1
7.5°	10416.9	10414.8	10395.2	10367.0	10380.0	10390.9	10412.6	10382.2	10343.2	10306.3	10213.0
10°	10440.8	10440.8	10416.9	10432.1	10499.4	10505.9	10516.7	10536.2	10499.4	10445.1	10351.8
12.5°	10501.5	10497.2	10505.9	10555.8	10625.2	10640.4	10694.6	10694.6	10698.9	10666.4	10557.9
15°	10653.4	10653.4	10672.9	10718.5	10837.8	10846.4	10926.7	10998.3	11007.0	10959.2	10876.8
17.5°	11004.8	10996.1	10985.3	11013.5	11141.5	11145.8	11284.6	11375.7	11399.6	11451.7	11438.7
20°	11672.9	11664.3	11662.1	11664.3	11655.6	11642.6	11779.2	11876.9	11998.3	12089.4	12135.0
22.5°	12629.6	12610.1	12610.1	12503.8	12421.3	12434.4	12456.1	12510.3	12670.8	12831.3	13002.7
25°	13660.0	13647.0	13657.8	13386.7	13276.0	13319.4	13291.2	13375.8	13586.3	13725.1	13907.3
27.5°	14501.7	14521.2	14460.5	14250.1	14178.5	14211.0	14145.9	14388.9	14621.0	14864.0	15139.5
30°	15549.5	15445.3	15295.7	15039.7	15013.6	15018.0	15013.6	15404.1	15885.7	16232.8	16614.6
32.5°	16918.3	16935.6	16599.4	15996.3	15775.1	15744.7	15831.5	16404.2	17054.9	17825.0	18328.3
35°	18302.3	18330.5	18085.4	17456.3	16825.0	16729.6	16601.6	17345.6	18284.9	19829.5	20588.7
37.5°	19770.9	19870.7	19580.0	19018.2	18269.7	18180.8	17575.6	18306.6	19695.0	22202.7	23198.4
40°	21736.3	21630.0	21278.5	20564.9	19868.5	19725.3	19022.5	19406.5	21508.5	25174.6	25897.0
42.5°	23185.4	23155.0	22857.8	22152.8	21452.1	21337.1	20770.9	21187.4	23792.8	28187.7	28511.0
45°	24335.1	24521.6	24515.1	24072.6	23677.8	23612.7	23278.6	23892.5	26554.3	31031.7	30873.3
47.5°	25356.8	25471.8	25287.4	25094.3	24909.9	24931.6	25178.9	26441.5	29376.5	33515.5	32814.8
50°	27029.3	26881.8	26055.3	25907.8	26168.1	26179.0	26931.7	28875.4	32485.1	35663.1	34459.1
52.5°	29259.4	29098.8	27400.3	27148.6	27764.7	27810.3	29062.0	31300.7	35691.3	37715.2	36094.8
55°	32578.4	32205.3	30385.2	29257.2	29539.2	29723.6	31239.9	33632.6	38201.2	39524.4	37333.5
57.5°	36654.5	36925.6	35992.8	33443.9	32270.3	32339.8	33732.4	35864.8	40416.0	41108.0	38058.0
60°	40962.7	40897.6	41288.1	40214.3	37966.9	37593.8	36884.4	38142.6	42131.9	42442.1	38804.2
62.5°	43322.9	43702.5	45004.1	45218.8	47247.1	47049.7	42214.4	40967.0	44114.6	43279.5	39008.1
65°	43309.8	43474.7	45897.8	48561.7	54898.2	54841.8	52594.4	45051.8	45591.9	43726.3	38600.3
67.5°	40511.5	40767.4	43600.5	48804.6	58434.1	58366.9	56813.7	50793.9	46056.2	43188.4	36697.9
70°	35409.3	35496.1	38259.7	45383.7	59855.0	60113.1	56959.0	52997.9	44902.1	41589.6	33229.2
72.5°	29211.6	29031.6	31734.5	38756.5	56236.6	56082.6	54551.1	50366.5	42958.4	38485.3	27100.9
75°	21508.5	22009.6	24434.9	31118.4	48149.5	48713.5	49392.5	46340.3	38153.4	31717.2	18740.5
77.5°	14202.3	14840.1	17291.4	23332.9	38118.7	38995.1	40754.4	39413.8	31038.2	22751.5	8924.5
80°	7338.7	7820.3	10026.5	15482.2	27326.5	28591.2	31817.0	29851.6	22005.3	10286.8	1997.9
82.5°	2776.7	2713.8	4492.6	8861.5	17521.3	18671.1	21016.1	17901.0	7831.1	1807.0	928.5
85°	1219.1	1290.7	1861.2	4041.4	10017.8	10167.5	11905.1	6978.6	1147.6	863.4	631.3
87.5°	527.1	605.2	780.9	1162.7	3379.8	3902.5	4828.8	2217.0	347.1	299.4	316.7
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°	10067.7	10067.7	10067.7	10067.7	10067.7	10067.7	10067.7	10067.7	10067.7	10067.7	10067.7
2.5°	10080.7	10067.7	10046.0	9991.7	9902.8	9892.0	9883.3	9874.6	9857.2	9865.9	9915.8
5°	10102.4	10078.5	10000.4	9922.3	9844.2	9774.8	9690.2	9657.7	9614.3	9586.1	9638.1
7.5°	10176.1	10126.2	10011.3	9905.0	9692.4	9590.4	9482.0	9354.0	9262.9	9204.3	9256.4
10°	10299.8	10236.9	10093.7	9874.6	9625.1	9345.3	9154.4	8941.8	8768.3	8720.5	8768.3
12.5°	10501.5	10408.2	10241.2	9944.0	9501.5	9134.9	8772.6	8492.8	8212.9	8132.7	8156.5
15°	10829.1	10755.3	10499.4	10089.4	9503.7	8944.0	8406.0	7954.8	7588.2	7460.2	7451.5
17.5°	11354.1	11276.0	10980.9	10377.9	9581.7	8794.3	8045.9	7358.2	6802.9	6520.9	6475.3
20°	12106.8	11998.3	11551.5	10803.1	9751.0	8729.2	7711.8	6787.7	5924.3	5395.0	5314.8
22.5°	12944.1	12829.2	12169.7	11130.6	9872.4	8601.2	7392.9	6156.4	5019.7	4373.3	4282.2
25°	13985.4	13733.8	12761.9	11440.8	9844.2	8332.2	6874.5	5299.6	4067.4	3507.7	3447.0
27.5°	15013.6	14694.8	13365.0	11603.5	9720.6	7904.9	6115.2	4297.4	3184.5	2787.5	2737.6
30°	16289.2	15673.1	13900.8	11679.4	9408.2	7264.9	5097.8	3266.9	2384.0	2110.7	2063.0
32.5°	17805.5	16872.7	14404.1	11594.8	8887.6	6288.8	3963.3	2392.7	1772.3	1600.9	1598.8
35°	19805.6	18343.5	14957.2	11317.2	8089.3	5236.7	2778.9	1635.6	1381.8	1323.3	1334.1
37.5°	22144.1	20334.9	15519.1	10861.6	7186.9	4006.7	1852.6	1260.4	1214.8	1217.0	1219.1
40°	24610.6	22534.6	16276.2	10221.7	6091.4	2900.3	1334.1	1132.4	1130.2	1151.9	1158.4
42.5°	26966.4	24671.3	17209.0	9369.2	4943.8	1917.7	1156.2	1080.3	1052.1	1060.8	1067.3
45°	29155.2	26504.4	18002.9	8538.3	3713.8	1368.8	1134.5	1019.6	976.2	971.8	976.2
47.5°	30918.9	27973.0	18486.7	7562.1	2646.5	1136.7	1089.0	963.2	902.4	889.4	882.9
50°	32261.7	29064.1	18662.4	6455.8	1789.7	1084.6	1028.2	898.1	824.3	826.5	826.5
52.5°	33571.9	30055.5	18458.5	5340.8	1316.8	1039.1	987.0	846.0	767.9	809.1	820.0
55°	34515.5	30472.0	17864.1	4134.7	1097.7	982.7	941.5	785.3	731.1	798.3	820.0
57.5°	35066.5	30799.6	16772.9	2984.9	1006.5	928.5	882.9	728.9	679.0	696.3	707.2
60°	35409.3	30341.8	15330.4	2041.3	958.8	885.1	824.3	692.0	624.8	583.5	577.0
62.5°	35220.6	29196.5	13430.1	1403.5	908.9	837.3	774.4	657.3	568.4	514.1	509.8
65°	33682.5	27077.1	10310.6	1136.7	878.6	815.7	744.1	624.8	529.3	477.2	470.7
67.5°	30829.9	23267.8	6021.9	1010.9	865.5	794.0	720.2	594.4	507.6	451.2	442.5
70°	26142.1	17501.8	2017.4	902.4	863.4	791.8	700.7	572.7	483.8	425.2	416.5
72.5°	18859.8	10560.1	982.7	794.0	807.0	759.3	685.5	555.3	468.6	394.8	379.6
75°	10718.5	3438.3	887.2	685.5	750.6	724.5	676.8	557.5	475.1	357.9	340.6
77.5°	3050.0	1004.4	856.9	583.5	709.4	748.4	633.4	503.3	485.9	331.9	310.2
80°	1030.4	893.7	826.5	453.4	572.7	618.2	548.8	442.5	490.3	301.5	279.8
82.5°	826.5	898.1	694.2	362.3	436.0	468.6	436.0	397.0	397.0	269.0	251.6
85°	661.6	833.0	440.4	288.5	325.4	360.1	308.0	297.2	277.7	225.6	219.1
87.5°	384.0	260.3	182.2	147.5	136.7	138.8	119.3	143.2	175.7	154.0	151.9
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)