

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: P510516

Luminaire Tested: **CTN-CA10-630-722-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-630-722-U-T2-HSS
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68442 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

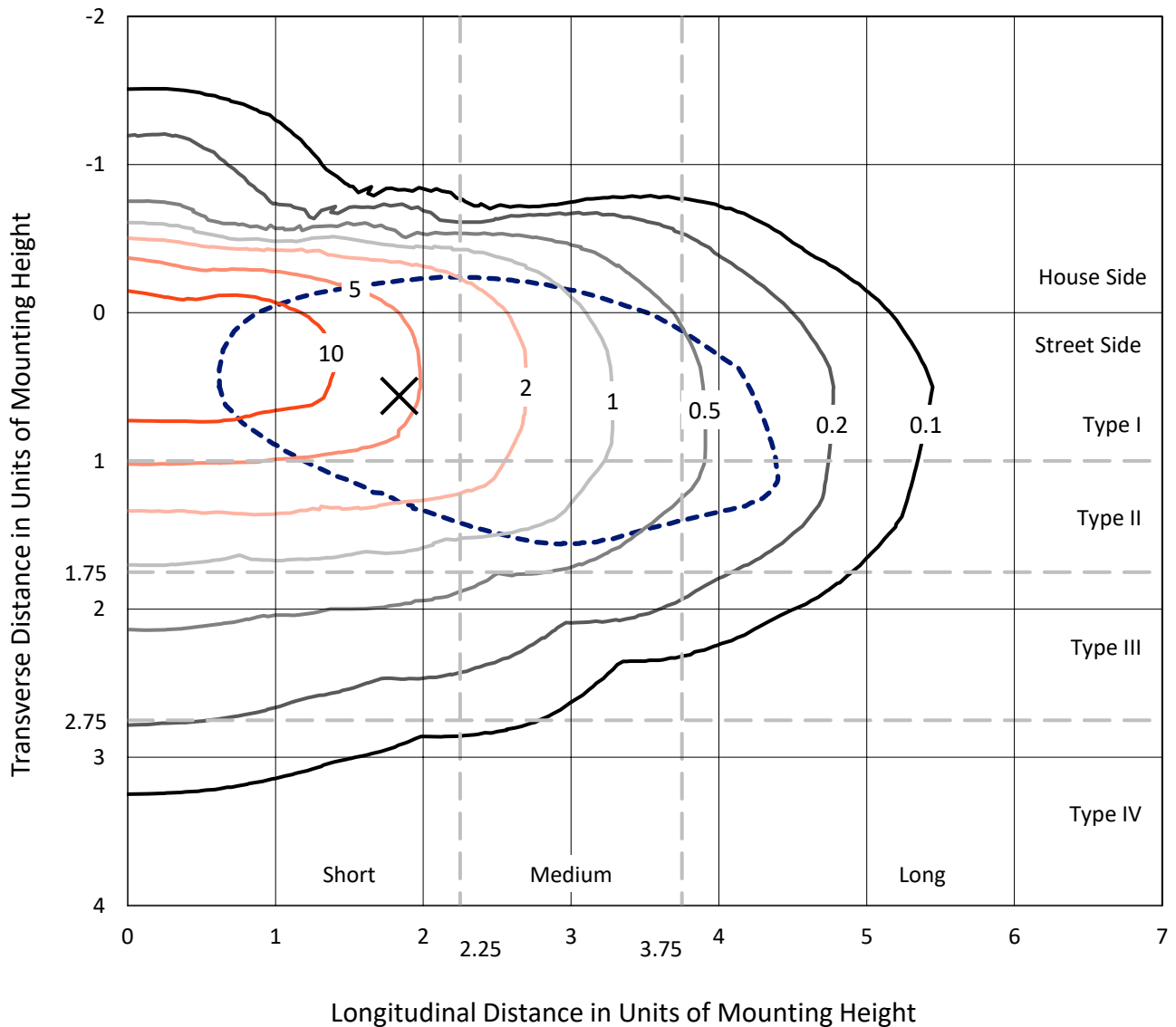
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

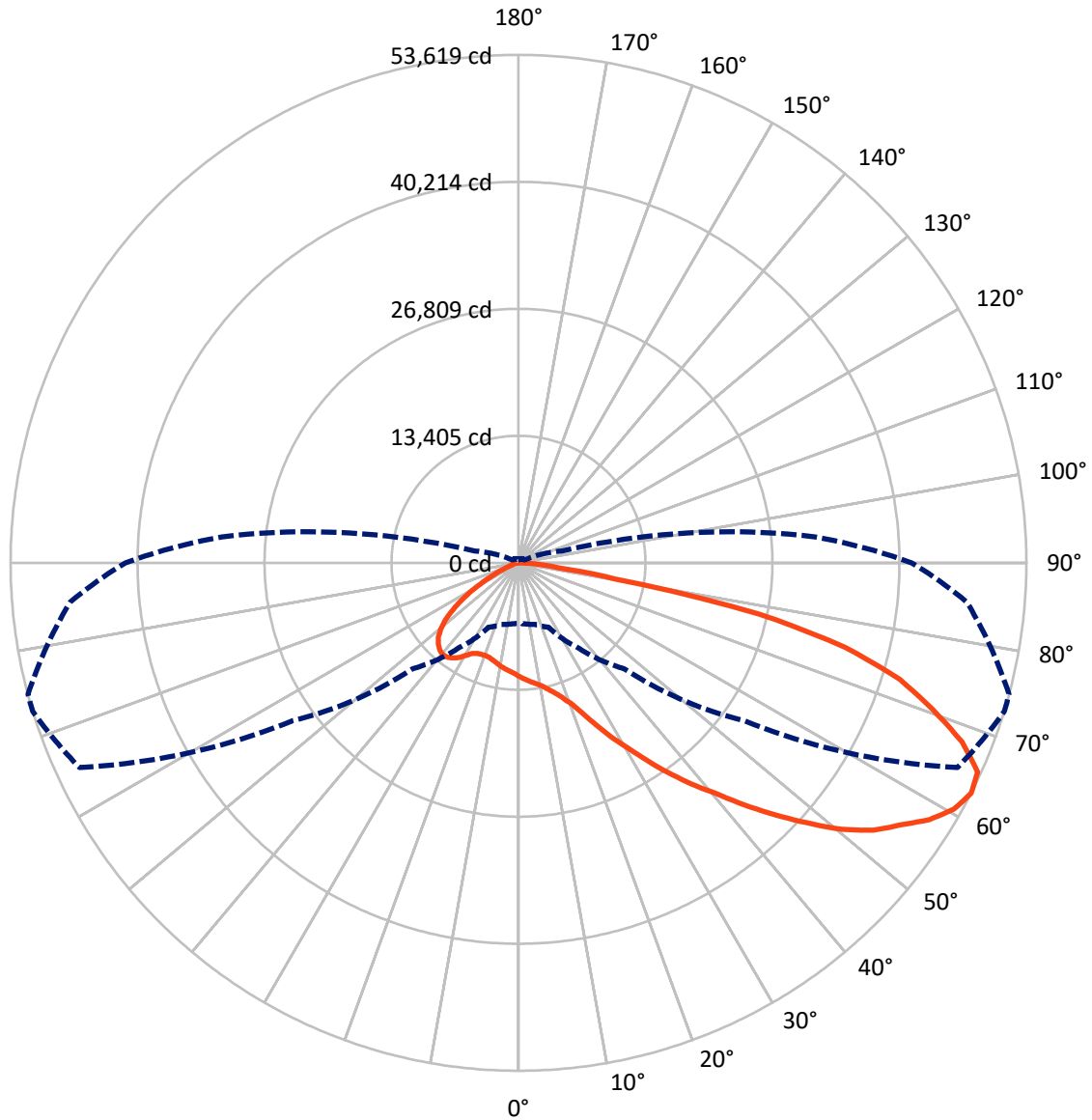
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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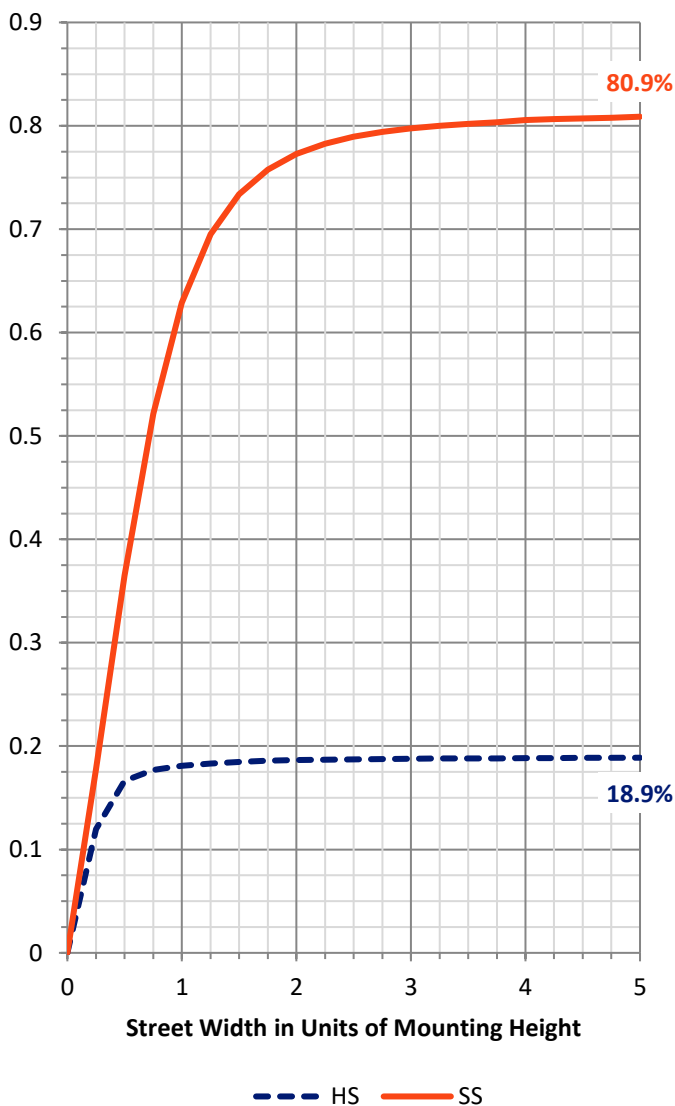
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13092.6	0.0	13092.6
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	55349.4	0.0	55349.4
	% Fixture	80.9	0.0	80.9
Total	Lumens	68442.0	0.0	68442.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1146.4	1.7
10°-20°	3448.3	5.0
20°-30°	5957.9	8.7
30°-40°	8959.3	13.1
40°-50°	11946.3	17.5
50°-60°	14069.1	20.6
60°-70°	13987.2	20.4
70°-80°	8030.4	11.7
80°-90°	897.1	1.3
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°	68442.0	100.0
0°-180°	68442.0	100.0

Coefficient of Utilization

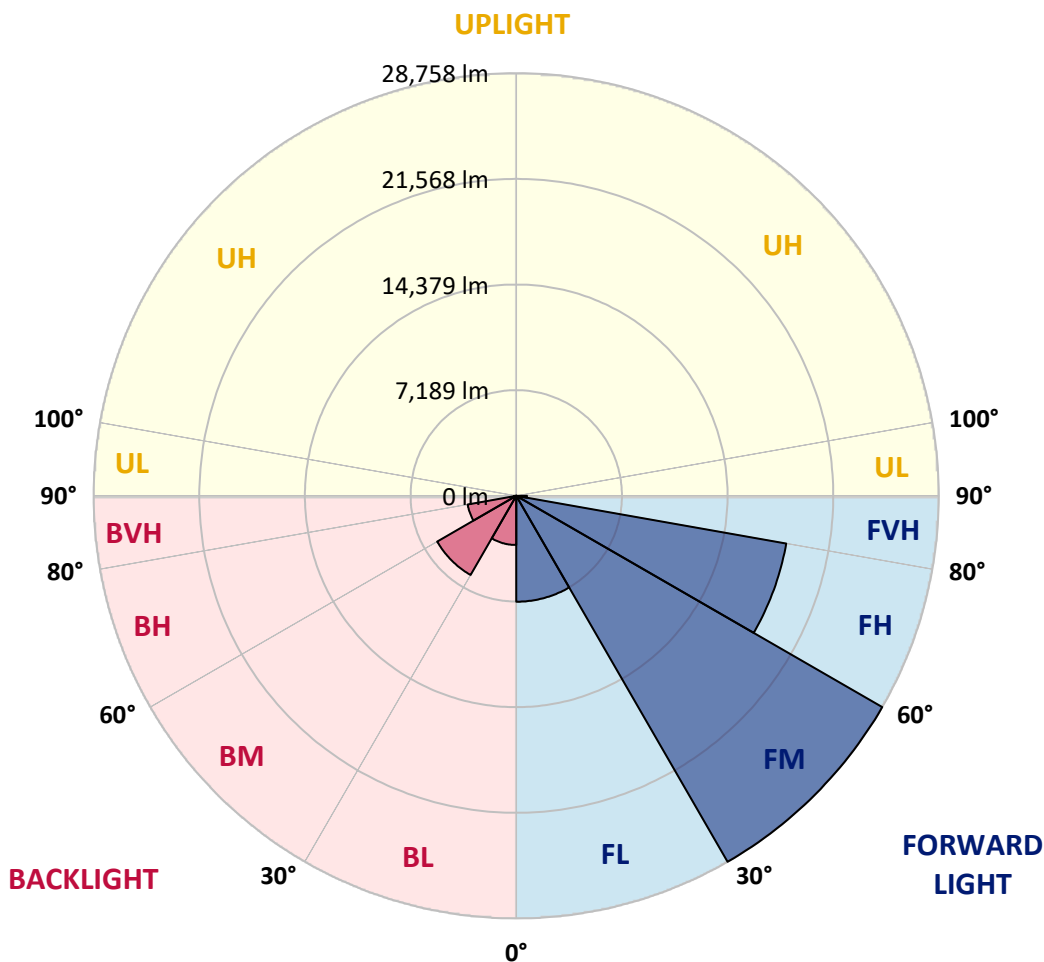


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7206.9	10.5			
FM (30°-60°)	28757.7	42.0			
FH (60°-80°)	18656.2	27.3			G5
FVH (80°-90°)	728.6	1.1			G4/750
BL (0°-30°)	3345.8	4.9	B4/5000		
BM (30°-60°)	6217.0	9.1	B4/8500		
BH (60°-80°)	3361.4	4.9	B4/5000		G4/5000
BVH (80°-90°)	168.5	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	12003.2	12003.2	12003.2	12003.2	12003.2	12003.2	12003.2	12003.2	12003.2	12003.2	12003.2
2.5°	12842.0	12874.3	12835.8	12818.9	12800.5	12680.7	12540.9	12398.0	12282.8	12264.3	12113.8
5°	13743.8	13760.7	13697.7	13625.5	13501.1	13302.9	13052.5	12805.1	12574.7	12513.2	12238.2
7.5°	14436.7	14404.4	14389.1	14327.6	14218.5	14000.4	13620.9	13215.3	12858.9	12772.9	12355.0
10°	15086.5	15072.7	14956.0	14879.1	14705.5	14504.3	14192.4	13677.7	13175.4	13037.1	12456.4
12.5°	15790.2	15759.4	15711.8	15545.9	15404.6	15065.0	14688.6	14220.1	13660.8	13476.5	12630.0
15°	16423.1	16340.2	16314.0	16140.4	15997.6	15737.9	15360.0	14816.1	14218.5	14060.3	12960.3
17.5°	17025.4	16986.9	16928.6	16810.3	16650.5	16450.8	16148.1	15565.9	14948.3	14717.8	13521.0
20°	17536.9	17489.3	17438.6	17470.9	17435.6	17308.0	17117.5	16621.3	15867.0	15644.2	14203.2
22.5°	17893.4	17891.8	18094.6	18212.9	18280.5	18275.9	18229.8	17948.7	17189.7	16963.9	15223.3
25°	18189.9	18212.9	18469.5	18919.6	19322.1	19359.0	19684.7	19551.0	18905.8	18670.7	16758.0
27.5°	18277.4	18323.5	18789.0	19497.3	20108.7	20695.6	21173.4	21417.7	20820.0	20538.9	18408.0
30°	18340.4	18358.9	18815.2	19663.2	20952.2	21881.6	22735.8	23149.1	22634.4	22428.5	20247.0
32.5°	17896.4	17902.6	18601.6	19886.0	21571.3	23182.9	24193.8	24972.7	24837.5	24565.6	22258.0
35°	17285.0	17398.7	18200.6	19670.9	22081.3	24378.1	25754.7	26916.1	27186.5	26991.4	24267.5
37.5°	16529.1	16618.2	17477.0	19351.3	22193.5	25200.0	26968.3	28891.8	29598.5	29566.2	26693.3
40°	15599.7	15708.7	16736.5	18663.1	22138.2	25797.7	28392.5	31079.5	31976.7	31875.3	29099.2
42.5°	14501.2	14661.0	15658.0	17778.1	21734.1	26163.3	29558.6	33307.1	34921.8	34855.7	31228.5
45°	13415.0	13501.1	14410.6	16546.0	20990.6	26281.6	30655.5	36376.7	37942.2	37868.4	33794.2
47.5°	12295.1	12370.3	13319.8	15247.8	19700.1	26043.5	31523.5	39013.0	41019.4	40945.7	36342.9
50°	9689.5	9973.7	11920.2	14106.4	18229.8	25369.0	32342.3	42297.6	44239.5	43926.1	38575.1
52.5°	8289.9	8392.8	9402.2	12955.7	16762.6	24218.3	32889.3	45341.0	46888.1	46436.4	40858.1
55°	7749.1	7818.3	8313.0	10834.0	15384.6	22477.7	33533.0	48392.1	48874.5	48759.3	42720.1
57.5°	7338.9	7415.8	7769.1	9048.8	13932.8	20038.1	33331.7	50538.4	51142.1	50773.4	44697.3
60°	6758.2	6851.9	7320.5	8124.0	12282.8	17561.5	31560.4	51417.1	52790.6	52375.8	46201.4
62.5°	6392.6	6454.0	6722.9	7501.8	10915.5	15819.4	29039.3	51134.4	53618.7	53603.3	47505.7
65°	5896.3	5987.0	6274.3	6905.7	9698.7	14468.9	26661.1	49737.9	53262.2	53276.1	47774.5
67.5°	5377.1	5413.9	5715.1	6222.0	8265.3	13232.2	23583.9	47349.0	50486.1	50802.6	45914.1
70°	4728.8	4710.3	5036.0	5406.3	6755.1	11235.0	18982.6	43099.6	46384.2	46514.8	42151.7
72.5°	3720.9	3737.8	3828.5	4085.0	5128.2	8841.4	13774.5	36413.6	42096.4	42328.3	37343.0
75°	2501.1	2528.8	2951.2	3201.7	3688.7	6354.2	8661.7	24579.4	35587.0	36241.5	30563.3
77.5°	1908.1	1925.0	2047.9	2321.4	2668.6	4529.0	4695.0	13393.5	25908.3	27461.5	23909.5
80°	1352.0	1358.1	1236.7	1100.0	1421.1	3072.6	2773.0	5704.3	10324.0	12199.8	14043.4
82.5°	605.3	596.1	702.1	583.8	818.9	1189.1	1308.9	2768.4	4287.8	4608.9	5017.6
85°	281.1	314.9	361.0	302.7	487.0	459.4	510.1	1179.9	2009.5	2218.4	2206.1
87.5°	69.1	75.3	95.3	121.4	176.7	156.7	153.6	347.2	448.6	447.1	686.7
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°	12003.2	12003.2	12003.2	12003.2	12003.2	12003.2	12003.2	12003.2	12003.2	12003.2	12003.2
2.5°	12010.8	11931.0	11742.0	11559.2	11385.6	11270.3	11141.3	11006.1	10924.7	10886.3	10969.2
5°	12070.8	11918.7	11557.6	11195.1	10887.8	10625.1	10440.7	10284.0	10199.5	10207.2	10211.8
7.5°	12121.5	11907.9	11402.5	10890.9	10411.6	10085.9	9844.7	9675.7	9578.9	9505.1	9560.4
10°	12166.0	11863.4	11221.2	10539.1	10018.3	9535.9	9208.6	9004.3	8826.1	8726.2	8804.6
12.5°	12213.6	11846.5	11018.4	10224.1	9549.7	9010.4	8561.8	8359.0	8183.9	8108.6	8156.3
15°	12421.0	11911.0	10829.4	9853.9	9087.3	8389.8	7905.8	7657.0	7518.7	7428.0	7448.0
17.5°	12777.5	12081.5	10708.1	9466.7	8571.1	7833.6	7206.8	6916.5	6687.5	6623.0	6606.1
20°	13284.4	12405.7	10708.1	9139.5	7985.7	7216.0	6494.0	6003.9	5647.5	5513.8	5616.7
22.5°	14135.6	12957.2	10814.1	8843.0	7481.8	6575.4	5715.1	4966.9	4486.0	4290.9	4404.6
25°	15326.2	13809.9	10986.1	8583.3	7022.5	5838.0	4727.2	3866.9	3336.9	3104.9	3101.8
27.5°	16880.9	15114.2	11333.3	8371.3	6472.5	4883.9	3696.4	2868.3	2370.5	2230.7	2250.7
30°	18604.7	16527.6	11989.3	8064.1	5804.2	3816.2	2691.6	2107.8	1757.5	1573.2	1576.3
32.5°	20267.0	17991.7	12768.2	7864.4	4936.2	2877.5	1918.8	1504.0	1285.9	1176.8	1193.7
35°	22049.1	19254.5	13347.4	7529.4	3917.6	2080.2	1356.6	1127.6	1037.0	980.2	983.2
37.5°	23974.1	20643.4	13823.7	7080.8	2962.0	1428.8	1001.7	966.3	927.9	855.7	849.6
40°	25985.1	22251.9	14107.9	6355.7	2058.7	989.4	851.1	891.1	869.5	775.8	768.2
42.5°	27690.4	23493.2	14178.6	5395.5	1332.0	802.0	771.2	832.7	837.3	742.0	729.7
45°	29328.1	24599.4	14040.3	4131.1	923.3	754.3	722.1	806.6	812.7	726.7	706.7
47.5°	31160.9	26112.6	13789.9	2756.1	763.5	712.8	705.2	763.5	785.1	714.4	689.8
50°	33387.0	27343.2	13047.9	1693.0	720.5	686.7	686.7	722.1	751.3	689.8	677.5
52.5°	35670.0	28415.5	11949.4	1161.4	694.4	659.1	679.0	694.4	705.2	649.9	660.6
55°	37306.1	29366.5	10311.7	934.1	679.0	640.6	688.3	657.5	642.2	594.6	583.8
57.5°	39122.1	30497.2	8637.1	828.1	659.1	651.4	657.5	599.2	556.1	507.0	496.2
60°	40389.5	31105.6	6587.7	778.9	636.0	640.6	606.8	528.5	450.1	414.8	407.1
62.5°	41495.7	31452.8	4828.6	715.9	614.5	613.0	550.0	451.7	370.3	331.8	325.7
65°	41328.2	30910.5	3129.5	665.2	597.6	577.7	493.2	387.1	308.8	279.6	276.5
67.5°	39486.2	28510.8	1971.1	613.0	568.4	533.1	442.5	345.7	284.2	250.4	247.3
70°	35619.3	25197.0	1206.0	545.4	505.4	471.6	391.8	324.2	268.9	228.9	221.2
72.5°	30274.5	21580.5	852.7	480.9	440.9	401.0	331.8	308.8	256.6	205.9	199.7
75°	24872.8	15896.2	714.4	419.4	376.4	322.6	282.7	287.3	241.2	187.4	182.8
77.5°	17515.4	9910.7	665.2	342.6	296.5	256.6	244.3	262.7	221.2	172.1	167.5
80°	10222.6	5566.0	550.0	270.4	222.8	198.2	204.3	222.8	193.6	155.2	149.0
82.5°	4126.5	2203.1	387.1	210.5	162.8	158.2	167.5	181.3	159.8	130.6	127.5
85°	1473.3	688.3	219.7	138.3	104.5	109.1	107.5	129.0	115.2	95.3	93.7
87.5°	387.1	136.7	98.3	55.3	44.6	44.6	41.5	59.9	55.3	43.0	47.6
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)