

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: P510447

Luminaire Tested: **CTN-CA10-210-760-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-210-760-U-T2
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: 34532 lumens
Efficiency: N/A
Efficacy: 162.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

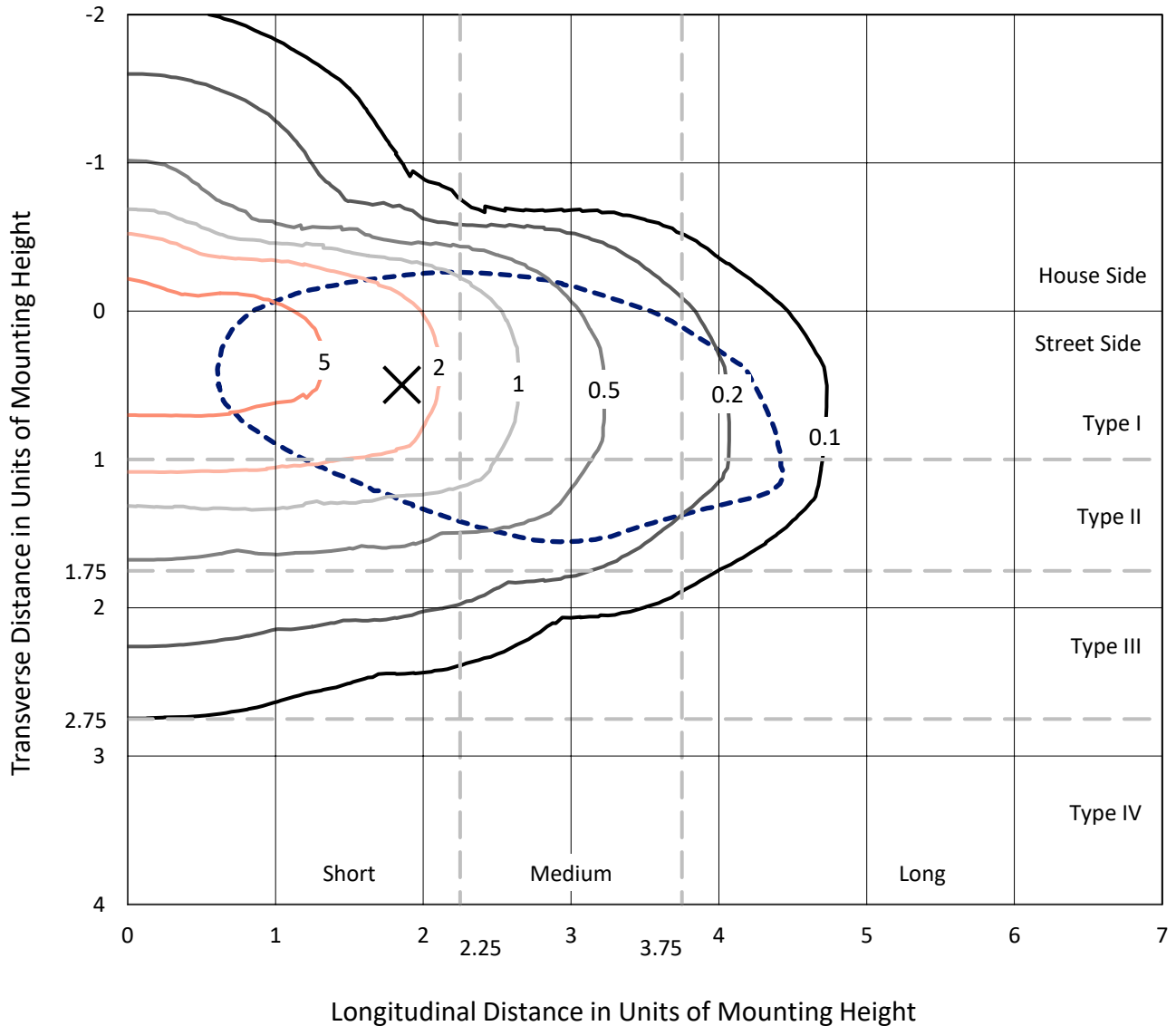
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

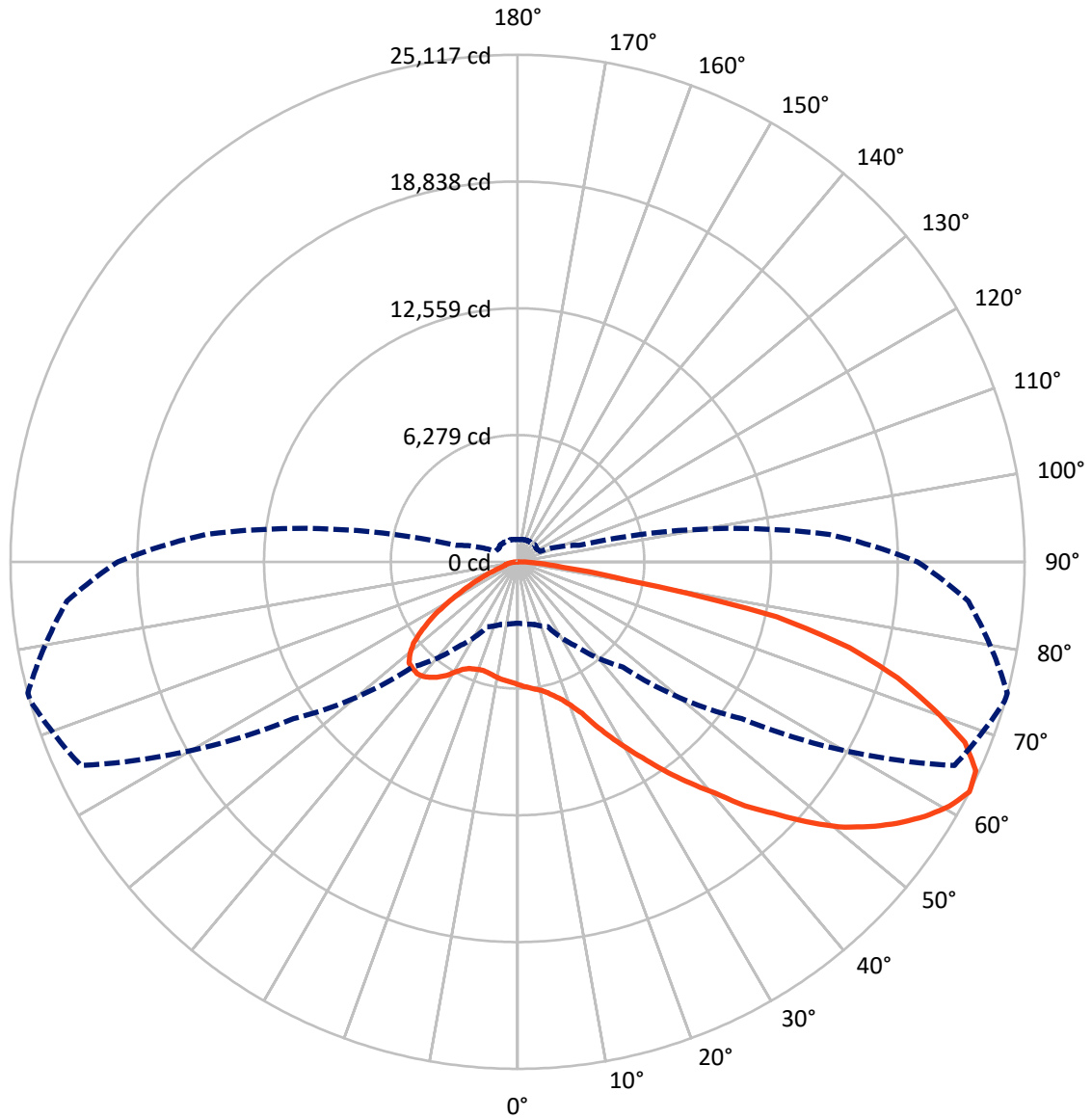
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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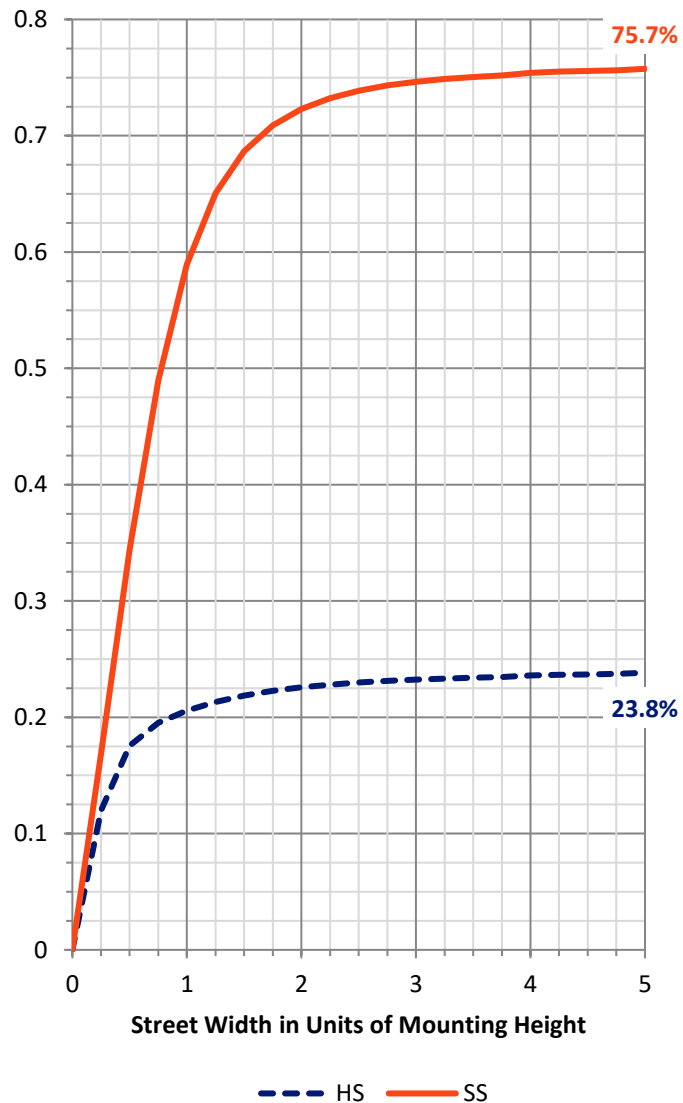
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8366.5	0.0	8366.5
	% Fixture	24.2	0.0	24.2
Street Side	Lumens	26165.5	0.0	26165.5
	% Fixture	75.8	0.0	75.8
Total	Lumens	34532.0	0.0	34532.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.6	1.7
10°-20°	1777.3	5.1
20°-30°	3065.4	8.9
30°-40°	4519.9	13.1
40°-50°	5958.3	17.3
50°-60°	7012.3	20.3
60°-70°	6976.6	20.2
70°-80°	4068.6	11.8
80°-90°	568.1	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°	34532.0	100.0
0°-180°	34532.0	100.0

Coefficient of Utilization



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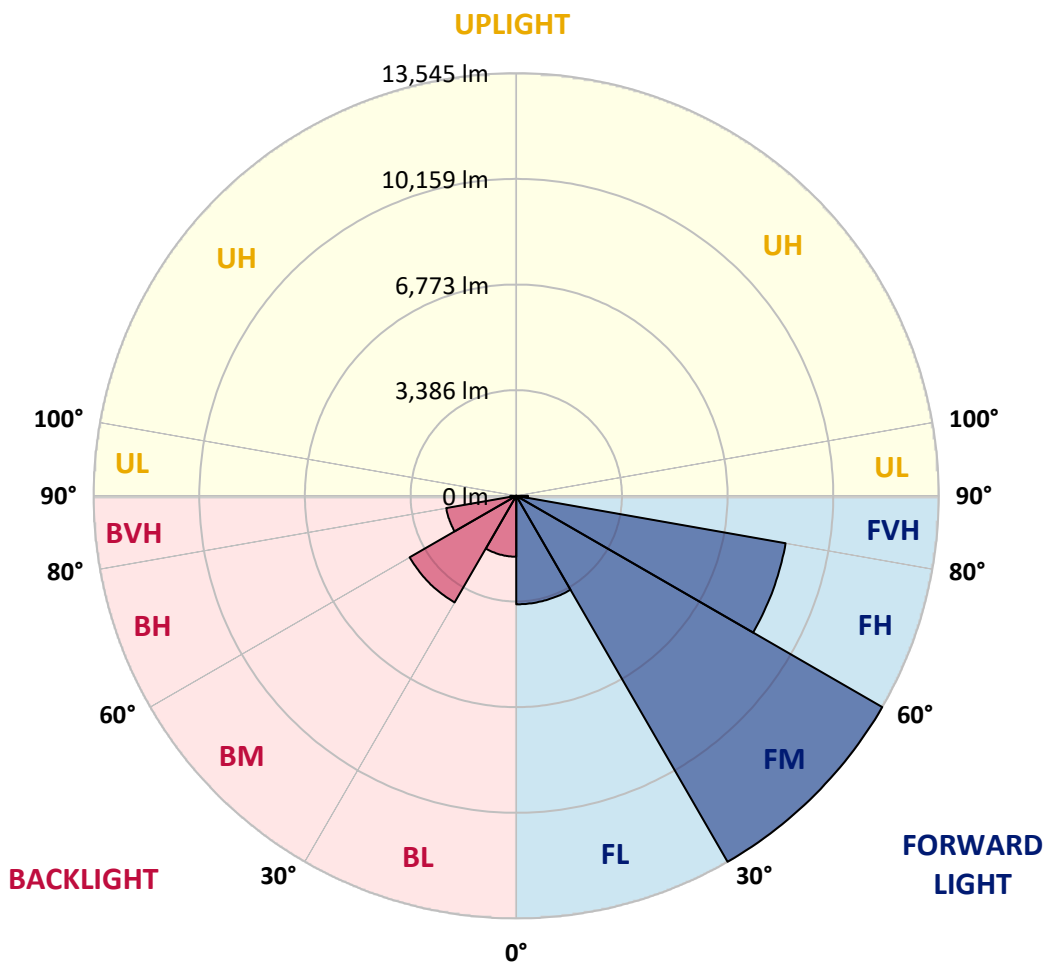
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3477.2	10.1			
FM (30°-60°)	13545.5	39.2			
FH (60°-80°)	8765.8	25.4			G4/12000
FVH (80°-90°)	377.0	1.1			G3/500
BL (0°-30°)	1951.0	5.6	B3/2500		
BM (30°-60°)	3945.0	11.4	B3/5000		
BH (60°-80°)	2279.3	6.6	B3/2500		G3/2500
BVH (80°-90°)	191.1	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	6087.2	6087.2	6087.2	6087.2	6087.2	6087.2	6087.2	6087.2	6087.2	6087.2	6087.2
2.5°	6420.5	6394.2	6397.8	6379.3	6351.6	6331.0	6277.0	6218.7	6183.9	6181.0	6131.3
5°	6743.2	6751.7	6753.8	6694.9	6636.6	6570.5	6488.0	6375.7	6284.1	6269.9	6173.2
7.5°	7037.4	7036.7	7032.4	6999.8	6972.7	6874.7	6709.8	6533.5	6384.3	6370.8	6213.7
10°	7338.8	7336.6	7294.0	7239.3	7178.1	7087.9	6946.4	6735.4	6493.7	6476.0	6251.4
12.5°	7667.1	7643.7	7616.6	7550.5	7478.1	7321.7	7173.2	6943.6	6691.3	6659.3	6318.2
15°	7937.9	7913.7	7876.1	7831.3	7755.2	7635.8	7478.1	7205.9	6935.1	6903.8	6468.1
17.5°	8205.8	8194.4	8167.4	8119.8	8061.5	7958.5	7813.5	7582.5	7227.9	7189.5	6717.6
20°	8425.4	8398.4	8378.5	8400.6	8405.5	8329.5	8249.9	8055.9	7665.0	7606.0	7023.9
22.5°	8550.5	8544.8	8653.6	8734.6	8767.3	8784.3	8759.5	8603.1	8249.2	8146.1	7450.3
25°	8669.2	8660.0	8807.8	9010.3	9202.9	9301.0	9367.1	9387.7	9062.9	8969.8	8136.2
27.5°	8672.8	8698.3	8913.0	9252.7	9546.2	9845.4	10162.4	10198.6	9913.6	9839.7	8916.5
30°	8691.9	8703.3	8915.8	9306.0	9917.2	10396.9	10809.8	11013.8	10767.9	10733.8	9775.8
32.5°	8448.2	8463.1	8793.6	9399.1	10197.2	10967.6	11515.6	11818.3	11757.2	11713.9	10692.6
35°	8194.4	8207.2	8591.0	9266.9	10405.5	11485.7	12153.1	12747.9	12859.5	12826.8	11715.3
37.5°	7796.5	7839.1	8241.4	9109.1	10441.7	11866.7	12761.4	13674.0	14010.9	13912.8	12797.0
40°	7364.3	7395.6	7864.0	8778.6	10401.2	12116.8	13359.2	14698.8	15106.8	15054.2	13870.9
42.5°	6818.5	6902.4	7371.5	8356.5	10193.0	12272.5	13912.1	15860.8	16453.6	16523.9	14857.3
45°	6358.7	6356.6	6792.2	7745.3	9815.6	12309.4	14420.9	17035.6	17902.7	17770.5	16161.5
47.5°	5817.8	5839.9	6294.7	7136.9	9259.1	12192.2	14817.5	18424.4	19302.1	19230.3	17231.1
50°	4566.3	4724.8	5586.2	6613.8	8506.4	11865.2	15148.0	19776.8	20614.8	20647.5	18203.3
52.5°	3936.6	3997.7	4473.2	6087.2	7838.4	11316.6	15510.5	21298.5	21883.4	21800.2	19307.1
55°	3684.3	3717.0	3945.1	5141.3	7192.4	10467.3	15684.6	22687.9	22872.7	22859.2	20215.3
57.5°	3501.7	3526.5	3688.6	4290.5	6483.1	9377.1	15537.5	23591.9	23879.0	23790.9	21072.5
60°	3238.0	3257.9	3499.5	3866.2	5753.2	8276.2	14632.7	24002.0	24608.9	24576.2	21830.1
62.5°	3039.7	3073.8	3208.8	3552.8	5129.9	7369.3	13554.6	23874.1	25087.9	25117.1	22408.6
65°	2830.0	2860.6	2975.0	3275.6	4564.9	6773.0	12391.9	23233.0	24867.6	24945.1	22502.4
67.5°	2571.3	2594.8	2730.5	2990.7	3904.6	6176.8	11080.6	22099.4	23645.2	23894.7	21568.5
70°	2245.8	2254.4	2420.7	2597.6	3242.2	5277.7	8810.6	20243.8	21876.3	21881.2	19805.3
72.5°	1787.4	1794.5	1838.6	1972.9	2435.6	4176.8	6476.0	16914.8	19725.7	19689.4	17602.1
75°	1215.3	1277.9	1430.7	1558.6	1756.9	2933.1	4027.6	11396.2	16712.3	16996.6	14458.6
77.5°	960.2	965.9	1029.1	1146.4	1317.7	2191.1	2257.2	6305.4	12459.4	13135.3	11364.9
80°	669.5	679.4	645.3	673.7	918.9	1499.6	1319.1	2744.0	5196.0	5547.8	6823.5
82.5°	319.1	330.5	379.5	352.5	457.0	637.5	696.5	1417.9	2244.4	2303.4	2656.6
85°	210.4	210.4	211.1	199.7	266.5	277.9	316.3	604.8	1095.9	1132.9	1126.5
87.5°	67.5	74.6	72.5	84.6	102.3	92.4	96.7	189.8	376.0	372.4	311.3
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°	6087.2	6087.2	6087.2	6087.2	6087.2	6087.2	6087.2	6087.2	6087.2	6087.2	6087.2
2.5°	6095.7	6066.6	5998.4	5938.7	5879.7	5834.9	5796.5	5745.4	5721.2	5699.2	5745.4
5°	6113.5	6061.6	5939.4	5817.1	5704.8	5622.4	5571.9	5535.0	5501.6	5501.6	5517.2
7.5°	6134.1	6063.7	5888.9	5715.5	5547.1	5453.3	5381.5	5334.6	5307.6	5309.0	5342.4
10°	6147.6	6039.6	5831.3	5597.5	5414.2	5263.5	5193.1	5125.6	5074.4	5043.9	5078.0
12.5°	6163.2	6031.8	5753.9	5490.2	5267.0	5096.5	4950.1	4899.6	4849.9	4811.5	4830.0
15°	6259.9	6061.6	5689.2	5353.8	5095.1	4882.6	4690.7	4598.3	4584.1	4557.8	4564.2
17.5°	6417.7	6141.9	5647.3	5186.7	4888.2	4637.4	4394.3	4274.9	4246.5	4233.0	4240.1
20°	6652.9	6294.7	5660.1	5069.5	4655.1	4374.4	4060.3	3920.3	3825.7	3831.4	3859.1
22.5°	7012.5	6541.3	5729.7	4940.8	4402.8	4034.7	3717.7	3527.2	3432.0	3411.4	3442.7
25°	7585.4	6938.6	5806.5	4817.9	4159.1	3668.0	3316.9	3110.8	2988.5	2980.7	3015.5
27.5°	8319.5	7547.7	5973.5	4711.3	3856.3	3227.3	2878.4	2702.1	2572.0	2556.4	2545.0
30°	9070.7	8224.3	6275.5	4549.2	3503.1	2772.5	2469.0	2331.1	2185.4	2126.4	2139.2
32.5°	9866.7	8854.7	6629.5	4435.5	3107.9	2372.3	2108.7	1977.2	1843.6	1758.3	1738.4
35°	10668.4	9481.5	6927.3	4265.7	2733.4	2054.7	1802.4	1666.6	1550.1	1480.4	1475.4
37.5°	11606.6	10134.0	7166.1	4085.1	2344.6	1805.9	1502.4	1424.3	1368.1	1307.0	1313.4
40°	12546.1	10894.4	7357.2	3786.6	2022.0	1538.7	1278.6	1294.2	1306.3	1255.1	1250.8
42.5°	13326.5	11533.3	7444.7	3400.0	1736.3	1306.3	1179.8	1250.8	1303.4	1270.0	1265.8
45°	14118.9	12071.4	7410.5	2920.3	1498.9	1195.4	1172.0	1244.4	1312.0	1304.1	1300.6
47.5°	14980.3	12776.4	7351.6	2373.8	1329.0	1184.7	1189.0	1223.1	1308.4	1322.6	1316.9
50°	16033.5	13425.2	7002.6	1848.5	1246.6	1201.8	1227.4	1209.6	1282.1	1311.3	1316.2
52.5°	17081.8	13924.9	6535.7	1601.9	1213.9	1218.2	1280.7	1220.3	1252.3	1277.9	1301.3
55°	17890.6	14433.7	5780.2	1453.4	1203.2	1226.0	1295.6	1243.0	1242.3	1242.3	1250.1
57.5°	18718.6	15115.3	5024.7	1357.4	1184.7	1234.5	1277.9	1247.3	1237.3	1223.1	1213.9
60°	19295.0	15367.6	4053.9	1294.2	1165.6	1222.4	1228.1	1223.8	1193.3	1179.8	1169.1
62.5°	19806.7	15504.8	3156.2	1221.7	1139.3	1194.0	1164.1	1154.9	1137.1	1104.4	1110.1
65°	19669.5	15210.5	2405.0	1140.0	1120.8	1159.9	1108.0	1086.0	1087.4	1053.3	1064.6
67.5°	18786.8	13890.8	1727.0	1014.9	1070.3	1092.4	1044.0	1027.7	1003.5	986.5	1002.1
70°	17003.7	12313.7	1164.8	842.2	955.2	1002.8	970.8	942.4	904.7	893.4	910.4
72.5°	14311.5	10279.0	803.8	677.3	824.4	886.3	874.2	845.0	818.0	845.7	879.1
75°	11757.2	7604.6	656.0	555.1	634.0	738.4	774.0	782.5	863.5	1133.6	1161.3
77.5°	8463.1	4714.1	589.9	451.3	506.0	590.6	661.7	690.8	1054.7	1009.9	1007.8
80°	4934.4	2747.6	449.9	356.1	409.4	432.8	517.4	810.9	909.7	780.4	761.2
82.5°	2251.5	1212.5	313.4	285.0	284.3	286.4	352.5	780.4	697.9	614.8	592.0
85°	828.0	426.4	190.5	164.9	189.0	164.2	231.0	572.1	404.4	398.0	331.9
87.5°	204.0	87.4	64.7	54.0	44.1	41.9	70.4	188.3	98.8	90.3	86.7
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)