

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: P510677

Luminaire Tested: **CTN-CA6-230-750-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510677
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-CA6-230-750-U-T2
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (6) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34828 lumens
Efficiency: N/A
Efficacy: 152.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

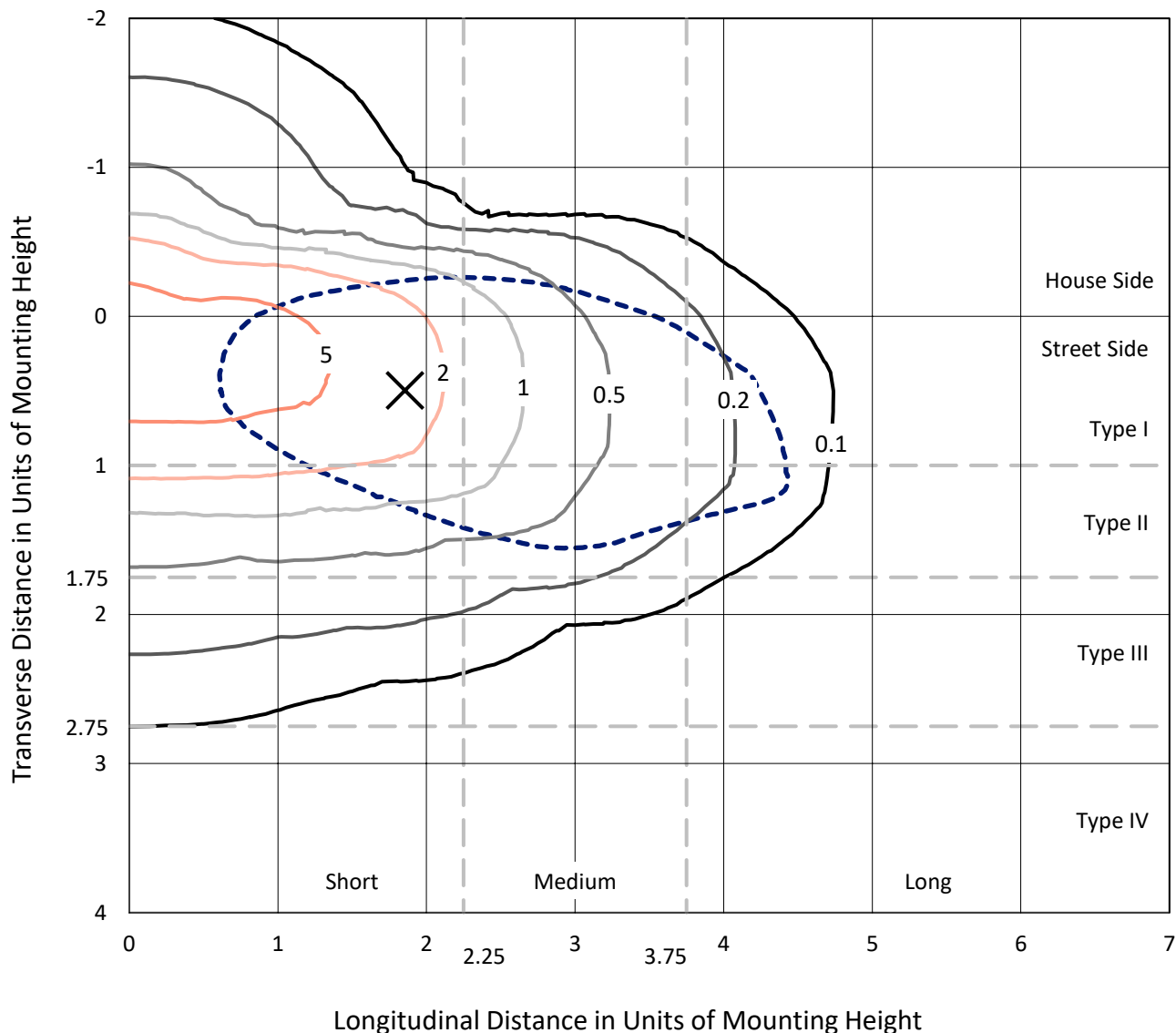
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

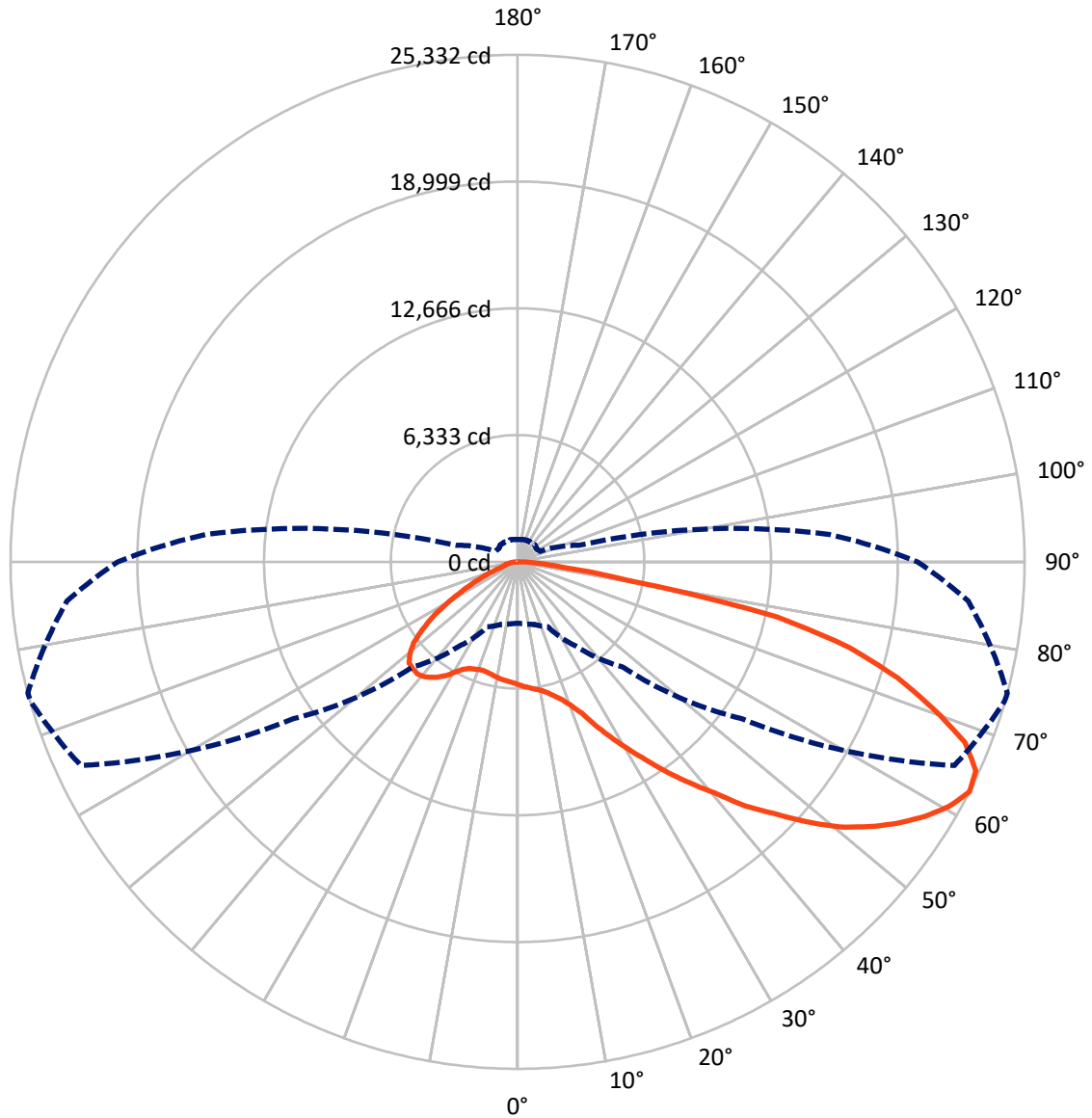
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 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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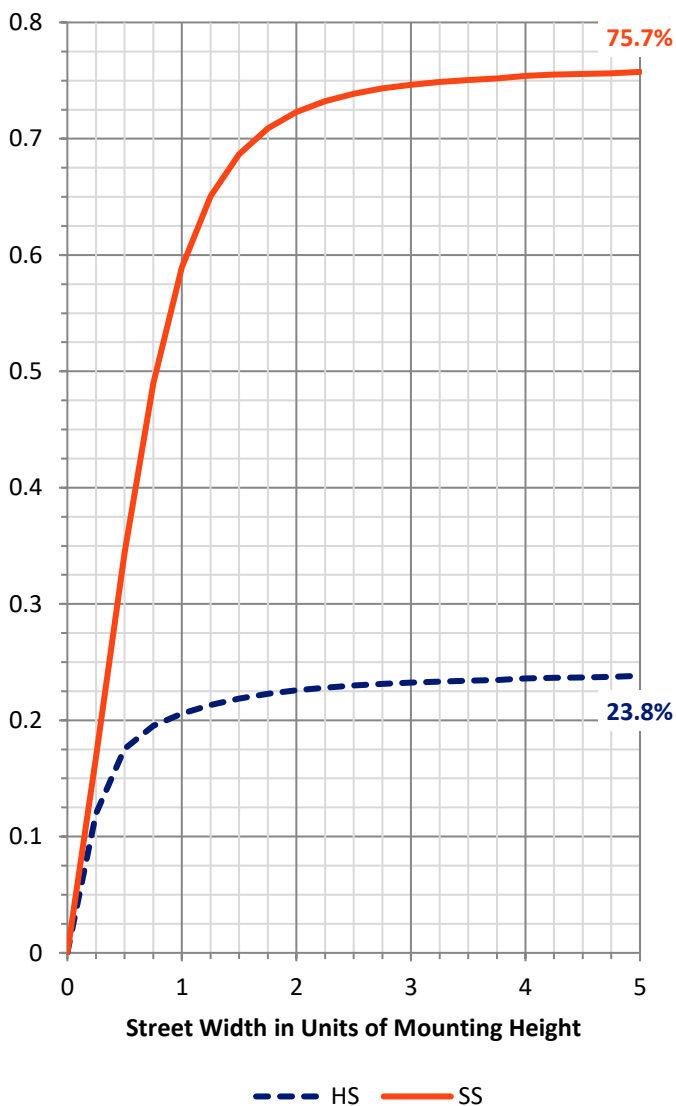
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8438.2	0.0	8438.2
	% Fixture	24.2	0.0	24.2
Street Side	Lumens	26389.8	0.0	26389.8
	% Fixture	75.8	0.0	75.8
Total	Lumens	34828.0	0.0	34828.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.6	1.7
10°-20°	1792.5	5.1
20°-30°	3091.6	8.9
30°-40°	4558.7	13.1
40°-50°	6009.3	17.3
50°-60°	7072.4	20.3
60°-70°	7036.4	20.2
70°-80°	4103.4	11.8
80°-90°	573.0	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°	34828.0	100.0
0°-180°	34828.0	100.0

Coefficient of Utilization

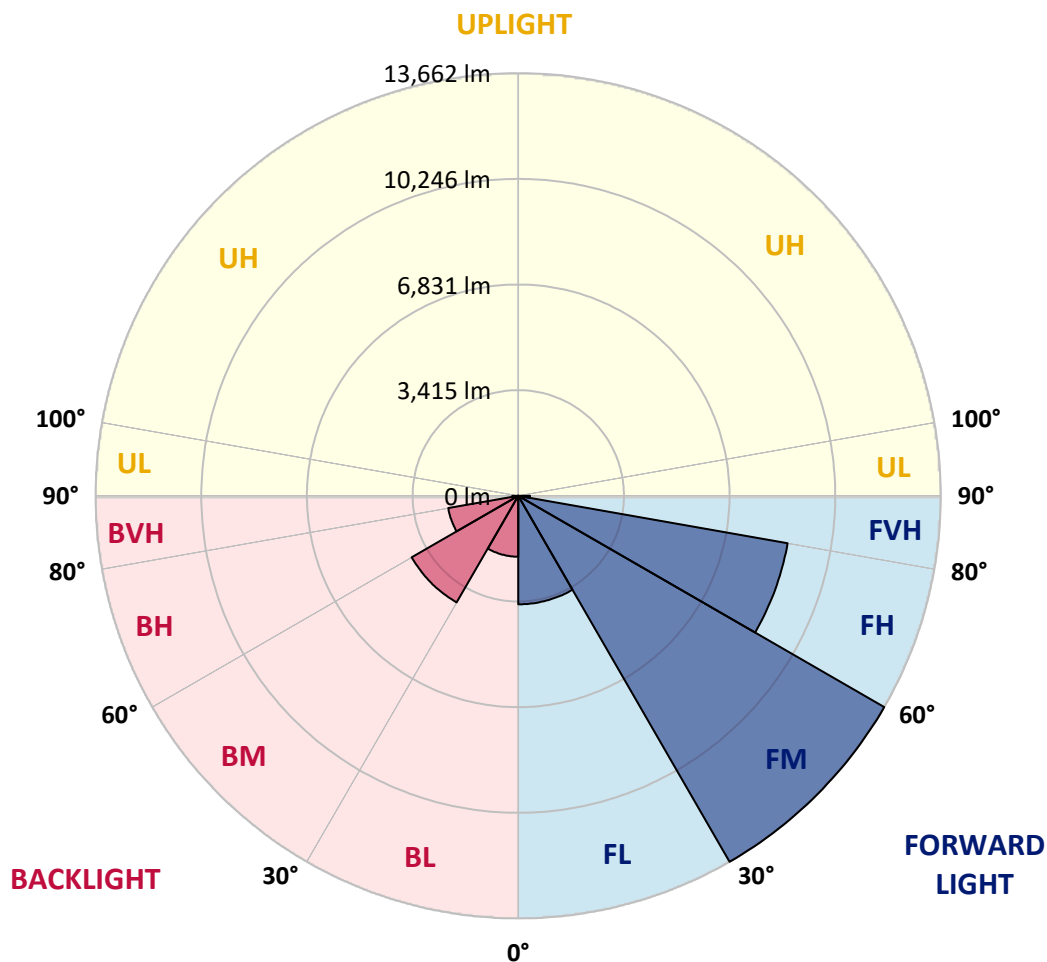


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3507.0	10.1			
FM (30°-60°)	13661.6	39.2			
FH (60°-80°)	8841.0	25.4			G4/12000
FVH (80°-90°)	380.2	1.1			G3/500
BL (0°-30°)	1967.7	5.6	B3/2500		
BM (30°-60°)	3978.9	11.4	B3/5000		
BH (60°-80°)	2298.8	6.6	B3/2500		G3/2500
BVH (80°-90°)	192.7	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°	6139.4	6139.4	6139.4	6139.4	6139.4	6139.4	6139.4	6139.4	6139.4	6139.4	6139.4
2.5°	6475.6	6449.0	6452.6	6434.0	6406.0	6385.2	6330.8	6272.0	6236.9	6234.0	6183.8
5°	6801.0	6809.6	6811.7	6752.2	6693.5	6626.8	6543.7	6430.4	6337.9	6323.6	6226.1
7.5°	7097.7	7097.0	7092.7	7059.8	7032.5	6933.6	6767.3	6589.5	6439.0	6425.4	6267.0
10°	7401.7	7399.5	7356.5	7301.3	7239.7	7148.6	7006.0	6793.1	6549.4	6531.5	6305.0
12.5°	7732.8	7709.2	7681.9	7615.3	7542.2	7384.5	7234.6	7003.1	6748.7	6716.4	6372.3
15°	8005.9	7981.6	7943.6	7898.4	7821.7	7701.3	7542.2	7267.6	6994.5	6963.0	6523.6
17.5°	8276.2	8264.7	8237.5	8189.4	8130.6	8026.7	7880.5	7647.5	7289.8	7251.1	6775.2
20°	8497.6	8470.4	8450.3	8472.6	8477.6	8400.9	8320.6	8124.9	7730.7	7671.2	7084.1
22.5°	8623.8	8618.1	8727.7	8809.5	8842.4	8859.6	8834.5	8676.8	8319.9	8215.9	7514.2
25°	8743.5	8734.2	8883.3	9087.6	9281.8	9380.7	9447.4	9468.2	9140.6	9046.7	8205.9
27.5°	8747.1	8772.9	8989.4	9332.0	9628.0	9929.8	10249.5	10286.1	9998.6	9924.1	8993.0
30°	8766.4	8777.9	8992.2	9385.8	10002.2	10486.0	10902.5	11108.2	10860.2	10825.8	9859.6
32.5°	8520.6	8535.6	8869.0	9479.7	10284.6	11061.6	11614.3	11919.6	11858.0	11814.3	10784.2
35°	8264.7	8277.6	8664.7	9346.3	10494.7	11584.2	12257.3	12857.2	12969.8	12936.8	11815.7
37.5°	7863.3	7906.3	8312.0	9187.2	10531.2	11968.4	12870.8	13791.2	14131.0	14032.1	12906.7
40°	7427.5	7459.0	7931.4	8853.9	10490.3	12220.7	13473.7	14824.8	15236.3	15183.2	13989.8
42.5°	6877.0	6961.5	7434.6	8428.1	10280.3	12377.7	14031.3	15996.8	16594.6	16665.6	14984.7
45°	6413.2	6411.0	6850.4	7811.7	9899.7	12415.0	14544.6	17181.7	18056.2	17922.8	16300.0
47.5°	5867.7	5889.9	6348.7	7198.1	9338.5	12296.7	14944.5	18582.3	19467.5	19395.1	17378.8
50°	4605.4	4765.3	5634.0	6670.5	8579.4	11967.0	15277.8	19946.4	20791.5	20824.4	18359.4
52.5°	3970.3	4032.0	4511.5	6139.4	7905.6	11413.6	15643.4	21481.0	22070.9	21987.1	19472.6
55°	3715.9	3748.9	3978.9	5185.3	7254.0	10557.0	15819.0	22882.4	23068.7	23055.1	20388.6
57.5°	3531.7	3556.8	3720.2	4327.3	6538.6	9457.4	15670.7	23794.1	24083.7	23994.8	21253.1
60°	3265.7	3285.8	3529.5	3899.4	5802.5	8347.1	14758.2	24207.7	24819.9	24786.9	22017.2
62.5°	3065.7	3100.2	3236.3	3583.3	5173.9	7432.5	13670.8	24078.7	25303.0	25332.4	22600.7
65°	2854.3	2885.1	3000.5	3303.7	4604.0	6831.1	12498.1	23432.2	25080.8	25158.9	22695.3
67.5°	2593.4	2617.0	2753.9	3016.3	3938.1	6229.7	11175.6	22288.9	23847.9	24099.5	21753.4
70°	2265.1	2273.7	2441.4	2619.9	3270.0	5322.9	8886.2	20417.3	22063.8	22068.8	19975.0
72.5°	1802.7	1809.9	1854.4	1989.8	2456.5	4212.6	6531.5	17059.8	19894.7	19858.2	17753.0
75°	1225.7	1288.8	1442.9	1571.9	1771.9	2958.2	4062.1	11493.9	16855.5	17142.2	14582.6
77.5°	968.4	974.1	1037.9	1156.2	1328.9	2209.9	2276.6	6359.4	12566.2	13247.9	11462.3
80°	675.2	685.3	650.9	679.5	926.8	1512.4	1330.4	2767.6	5240.5	5595.3	6882.0
82.5°	321.8	333.3	382.8	355.5	460.9	643.0	702.5	1430.0	2263.7	2323.1	2679.4
85°	212.2	212.2	212.9	201.4	268.8	280.3	319.0	610.0	1105.3	1142.6	1136.1
87.5°	68.1	75.3	73.1	85.3	103.2	93.2	97.5	191.4	379.2	375.6	314.0
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°	6139.4	6139.4	6139.4	6139.4	6139.4	6139.4	6139.4	6139.4	6139.4	6139.4	6139.4
2.5°	6148.0	6118.6	6049.8	5989.6	5930.1	5884.9	5846.2	5794.6	5770.2	5748.0	5794.6
5°	6165.9	6113.6	5990.3	5867.0	5753.7	5670.6	5619.7	5582.4	5548.7	5548.7	5564.5
7.5°	6186.7	6115.7	5939.4	5764.5	5594.6	5500.0	5427.6	5380.3	5353.1	5354.5	5388.2
10°	6200.3	6091.4	5881.3	5645.5	5460.6	5308.6	5237.6	5169.6	5117.9	5087.1	5121.5
12.5°	6216.1	6083.5	5803.2	5537.3	5312.2	5140.2	4992.5	4941.6	4891.4	4852.7	4871.4
15°	6313.6	6113.6	5738.0	5399.6	5138.7	4924.4	4730.9	4637.7	4623.4	4596.8	4603.3
17.5°	6472.7	6194.6	5695.7	5231.2	4930.1	4677.1	4432.0	4311.5	4282.9	4269.3	4276.4
20°	6710.0	6348.7	5708.6	5112.9	4695.0	4411.9	4095.1	3953.9	3858.5	3864.3	3892.2
22.5°	7072.7	6597.4	5778.8	4983.2	4440.6	4069.3	3749.6	3557.5	3461.4	3440.6	3472.2
25°	7650.4	6998.1	5856.2	4859.2	4194.7	3699.4	3345.3	3137.4	3014.1	3006.3	3041.4
27.5°	8390.8	7612.4	6024.7	4751.7	3889.3	3255.0	2903.0	2725.3	2594.1	2578.3	2566.9
30°	9148.5	8294.8	6329.3	4588.2	3533.1	2796.2	2490.2	2351.1	2204.2	2144.7	2157.6
32.5°	9951.3	8930.6	6686.3	4473.5	3134.6	2392.7	2126.7	1994.1	1859.4	1773.4	1753.3
35°	10759.9	9562.8	6986.6	4302.2	2756.8	2072.3	1817.8	1680.9	1563.3	1493.1	1488.1
37.5°	11706.0	10220.8	7227.5	4120.2	2364.7	1821.4	1515.3	1436.5	1379.8	1318.2	1324.6
40°	12653.6	10987.8	7420.3	3819.1	2039.3	1551.9	1289.5	1305.3	1317.5	1265.9	1261.6
42.5°	13440.7	11632.2	7508.5	3429.2	1751.1	1317.5	1189.9	1261.6	1314.6	1280.9	1276.6
45°	14239.9	12174.8	7474.1	2945.3	1511.7	1205.7	1182.0	1255.1	1323.2	1315.3	1311.7
47.5°	15108.7	12885.9	7414.6	2394.1	1340.4	1194.9	1199.2	1233.6	1319.6	1334.0	1328.2
50°	16171.0	13540.3	7062.6	1864.4	1257.3	1212.1	1237.9	1220.0	1293.1	1322.5	1327.5
52.5°	17228.3	14044.2	6591.7	1615.7	1224.3	1228.6	1291.7	1230.7	1263.0	1288.8	1312.5
55°	18044.0	14557.5	5829.7	1465.9	1213.5	1236.5	1306.7	1253.7	1253.0	1253.0	1260.8
57.5°	18879.0	15244.9	5067.8	1369.1	1194.9	1245.1	1288.8	1258.0	1247.9	1233.6	1224.3
60°	19460.4	15499.3	4088.6	1305.3	1175.5	1232.9	1238.6	1234.3	1203.5	1189.9	1179.1
62.5°	19976.5	15637.7	3183.3	1232.2	1149.0	1204.2	1174.1	1164.8	1146.9	1113.9	1119.6
65°	19838.1	15340.9	2425.6	1149.7	1130.4	1169.8	1117.5	1095.3	1096.7	1062.3	1073.8
67.5°	18947.9	14009.8	1741.8	1023.6	1079.5	1101.7	1053.0	1036.5	1012.1	994.9	1010.7
70°	17149.4	12419.3	1174.8	849.4	963.4	1011.4	979.1	950.5	912.5	901.0	918.2
72.5°	14434.2	10367.1	810.7	683.1	831.5	893.8	881.7	852.3	825.0	853.0	886.7
75°	11858.0	7669.7	661.6	559.8	639.4	744.8	780.6	789.2	870.9	1143.3	1171.2
77.5°	8535.6	4754.5	594.9	455.2	510.4	595.7	667.3	696.7	1063.7	1018.6	1016.4
80°	4976.7	2771.1	453.7	359.1	412.9	436.5	521.8	817.9	917.5	787.0	767.7
82.5°	2270.8	1222.9	316.1	287.4	286.7	288.9	355.5	787.0	703.9	620.0	597.1
85°	835.1	430.1	192.1	166.3	190.7	165.6	233.0	577.0	407.9	401.4	334.7
87.5°	205.7	88.2	65.2	54.5	44.4	42.3	71.0	190.0	99.6	91.0	87.4
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)